SINCE 2007
盛世飞扬
Century Faron

Built on Technology Driven by Service

Professional AV · Smart Education · System Integration

Products. Solutions. Integration. Delivery.

Tianjin Century Faron Technology Co., Ltd.

400-827-8927

www.tjssfy.cn / tjssfy2007@Gmail.com

Tianbai Center, Tiankai Huayuan Science Park, Tianjin, China

Building 3: Digital Media Pavilion / Building 5: Offices

Company Website

SINCE 2007
盛世飞扬
Century Faron

2026

Century Faron

CENTURY FARON

Professional AV · Smart Education

PROFESSIONAL AV / SMART EDUCATION

Cameras & AV Products

Built on Technology. Driven by Service.

Tianjin Century Faron Technology Co., Ltd.

www.tjssfy.cn

Credentials & IP

QUALIFICATIONS & INTELLECTUAL PROPERTY

Corporate Credentials & Awards







Intellectual Property



1
Invention Patent

18
Utility Model Patents

46
Software Copyrights

Company Profile

ABOUT CENTURY FARON



Tianbai Center, Tianjin / Digital Media Pioneer Pavilion

Built on Technology. Driven by Service.

Tianjin Century Faron Technology Co., Ltd.

Founded in 2007, we develop professional AV and smart education products for broadcasters, media centers, universities, vocational schools and industry, providing equipment, software, solutions and technical services.

Our products cover capture, transmission, live production, centralized control, recording and publishing. Smart recording, digital-human teaching, XR production and holographic interaction advance digital learning.

Services include needs analysis, design, product selection, integration, installation, training and ongoing support.

2007
Established in 2007

Professional AV
Content Production & AV Systems

Smart Education
Lecture Capture & Interactive Training

Catalogue

PRODUCT CATALOG

01 Professional Cameras

4K UHD Series (4K@60fps)

GB-FY90 10
FY720 / FY720G 12
FY751BA / FY752A / FY752AG 14
FY630A 16
FY60AS / FY61AS 18
FY60D / FY61D 20
FY2612 / FY2620 22

4K UHD Series (4K@30fps)

FY60A / FY61A / FY61BA 24
FY701TA / FY701RA 26

1080P HD Series

FY60XS / FY61XS / FY63XS 28
FY60D / FY61D / FY63D 30

Dual-Lens Cameras

FY800I2 32

Education Cameras

FY1801K 34
FY1811K 36
FY200I 38

Wireless Cameras

FY60WB 40

02 USB Cameras

USB PTZ Cameras

FY71UVS / FY70UVB 44
FY701RS 46
FY71UVS3 48
FY71US2 50
FY20CG 52

Live Streaming Cameras

FY73USS-I 54

Webcams

FY1700US 56
FY1702U 58
FY10 60

03 All-in-One AV Systems

USB All-in-One AV Systems

FY1000S 64

04 Video Conferencing

Private-Network Conferencing

FY300L / FY300L-C 68
FY200 / FY200-C 70
FY210 / FY210-C 72

Android Endpoints

FY631 Pro 74
FY632 Pro 76
FY730 Pro 78
DT100 80

05 Audio Equipment

Microphones

FYA10 / FYA10W 84
FYM702A / FYM702C 86
FYM710T 88
FYM800 90

Sound Reinforcement

FYM800 Pro 92

06 Accessories

FYCP100L 96
FY70 98

CENTURY FARON / PROFESSIONAL AUDIO & VIDEO

01

Professional Cameras

PROFESSIONAL VIDEO CAMERA















Applications

SCENES TO BE USED

Professional Broadcasting, Government Meetings, Courts & Telemedicine
Lecture Capture, Emergency Command & Live Events

CENTURY FARON / PROFESSIONAL AUDIO & VIDEO

4/3" Broadcast AI PTZ Camera

GB-FY90

4/3" CMOS | Ultra HD quality | OIS Stabilization | AI Assistance | Full I/O

This broadcast-grade PTZ camera combines a 4/3-inch CMOS sensor with advanced image processing for lifelike images in complex lighting. Precision pan/tilt, OIS stabilization and AI framing capture subjects smoothly and reliably. Comprehensive I/O and protocol support suit broadcasting, live sports and virtual production.



Key Features

▼ Large 4/3" Sensor

Uses a 4/3-inch large-format CMOS sensor and an advanced image engine to significantly improve the dynamic range and S/N ratio, ensuring the output of 4K@60fps UHD images in complex environments, with smooth image quality, no smear, and more pure and natural colors.

▼71° Wide Angle + 20x Optical Zoom

Using an ultra-high-resolution 4K telephoto lens with a 71° wide viewing angle and 20x optical zoom, it can not only capture the complete atmosphere of grand scenes, but also clearly capture tiny details, presenting richer content.

▼AI Auto Framing

Equipped with ReID and FaceID self-developed AI algorithms, it achieves high-precision subject recognition and focusing based on information such as human bone structure, human shape, posture and clothing, and can accurately track and shoot moving targets in complex environments. It also supports automatic frame selection and area tracking framing to meet different shooting needs such as long shots and close shots.

▼Precision Pan/Tilt Mechanism

High-speed, high-torque precision motors and a two-stage dual-layer drive provide responsive pan/tilt. Backlash compensation and a floating motor mount improve accuracy. Pan speed automatically adjusts with zoom (0.1°–80°/s), supporting fast tracking and fine movements.

▼Front / Rear Tally

The camera body has 2 tally lights on the front and 1 on the rear, which can display the current status of the camera in real time through red and green colors. Subjects, photographers and other staff can quickly identify the camera's working status from different perspectives, ensuring a smooth and error-free shooting process.

▼3-Stage ND Filter

Built-in three independent ND filters of ND 1/4, 1/16 and 1/64, you can flexibly select the appropriate filter level according to the lighting conditions on site, without the need to frequently adjust aperture, shutter and other settings to obtain ideal exposure and enrich shooting effects.

▼OIS Stabilization

Equipped with the newly upgraded OIS optical image stabilization technology, through the built-in physical compensation structure, it can accurately offset the picture shake caused by hand-held shake, device movement, environmental vibration, etc., without cropping the picture, without losing image quality, and output stable and smooth video, meeting the needs of telephoto, high-speed movement and sports scene shooting.

▼Virtual Production

Compatible with free-d protocol, by sending precise camera tracking information (pan/tilt/zoom/focus) to 3D production software, it can perfectly integrate live footage of real people with 3D virtual backgrounds and characters to create a realistic virtual studio.

▼Multi-Protocol Support

Compatible with NDI®|HX3, Dante AV-H, SRT, TCP/IP, HTTP(S), RTSP, RTMP(S) and other video processing and transmission protocols, it meets the needs of transmission scenarios such as IP, network, optical fiber, push-pull streaming, etc., and achieves low-latency, high-quality video signal transmission.

▼Comprehensive I/O

Simultaneous HD output via HDMI, 12G-SDI, 3G-SDI, USB and LAN. SFP+ carries fiber signals; XLR and Line carry audio. GenLock and Time Code synchronize AV, while TF Card stores files locally. Suitable for broadcast, live events and remote meetings.

▼Optional Interfaces

Supports Full NDI, Dante AV Ultra, HDBaseT, ST2110, SDVOE and other customized interfaces without expansion, and can quickly and flexibly meet the actual needs of different professional fields.

Specifications

▼Camera

Video Formats	**HDMI/12G-SDI:** 4KP60, 4KP59.94, 4KP50, 4KP30, 4KP29.97, 4KP25, 4KP24, 4KP23.98, 1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080P25, 1080P24, 1080P23.98, 1080I60, 1080I50, 1080I59.94, 720P60, 720P59.94 **3G-SDI:** 1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080P25, 1080P24, 1080P23.98, 1080I60, 1080I50, 1080I59.94, 720P60, 720P59.94
Sensor	4/3-inch CMOS, 20 MP effective
Scanning	Progressive
Lens	20×, f9.79mm ~ 186.5mm, F2.8 ~ F4.5
Digital Zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
ND Filter	Built-in (OFF, 1/4, 1/16, 1/64)
Stabilization	Standard EIS; optional OIS
White Balance	Auto, Manual, Indoor, Outdoor, One-Push, Color Temp.
Backlight Comp.	Yes
Noise Reduction	3D DNR
S/N Ratio	⩾ 55dB
Horizontal FOV	71° ~4.05°
Vertical FOV	39.6° ~ 2.2°
Pan Range	±172°
Tilt Range	-30° ~ +120°
Pan Speed	0.1° ~80° /S
Tilt Speed	0.1° ~60° /S
H/V Flip	Yes
Image Freeze	Yes
PoE Power	Yes
Presets	255
Preset Accuracy	0.1°

▼Network Features

Video Codecs	H.265 / H.264 / MJPEG
Video Streams	Main Stream, Substream
Main-Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576 etc.
Substream Resolution	720x576, 720x480, 320x240 etc.
Video Bit Rate	32kbps~81920kbps
Bit Rate Control	VBR / CBR
Frame Rate	P50: 1fps~50fps, P60: 1fps~60fps
Audio Codec	AAC
Audio Bit Rate	96Kbps, 128Kbps
Protocols	NDI®|HX3, Dante AV-H, free-d, SRT, TCP/IP, HTTP(S), RTSP, RTMP(S), Onvif, DHCP, multicast, etc.

▼Inputs / Outputs

HD Output	1 × HDMI: 2.0 1 × 12G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE 2082-1 standard 1 × 3G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE 424M standard
Genlock interface	1 × BNC type, 75Ω, input only
Timecode interface	1 × BNC type, 75Ω, input only
Network Port	1 × RJ45: 10M/100M/1000M adaptive Ethernet
Audio I/O	1 × Line In, 3.5mm audio interface; 1 × Line Out, 3.5mm audio interface; 2 × balanced input, XLR interface; 2 × Mic input;
USB interface	1 × USB3.0, Type-C type
Control I/O	1 × RS232 In: RJ45, VISCA/Pelco-D/Pelco-P protocol; 1 × RS485/422 in: RJ45, VISCA/Pelco-D/Pelco-P protocol; 1 × RS422 out: RJ45, VISCA/Pelco-D/Pelco-P protocol;
SD card	1 × MicroSD
RESTORE button	Yes
Power Input	JEITA type (DC IN 12V)
Optional I/O	1 × RJ45: FULL NDI 1 × RJ45: Dante AV Ultra 1 × RJ45: HDBaset 1 × SFP+: ST2110 1 × SFP+: SDVOE

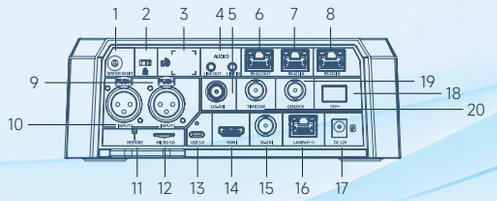
▼USB Features

Operating Systems	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color / Compression	YUY2 / H.264 / MJPEG / H.265
Video Formats	YUY2: Maximum 1440P30 H.264 AVC: Maximum 2160P60 H.265 HEVC: Maximum 2160P60 MJPEG: Maximum 2160P60
USB Audio	Yes
USB Video Protocol	UVC 1.1
UVC PTZ Control	Yes

▼General

Mounting	Upright / Inverted
TALLY lamp	3 pcs (red and green)
Power LED	1 piece (blue)
Status LEDs	2 pcs (green, red)
IR Remote	Yes
Input Voltage	DC 12V / POE ++
Input Current	5A (maximum)
Operating Temp.	0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Dimensions	205mm (W) × 237mm (D) × 272mm (H)
Net Weight	4.8kg

Connections



1 —— Video Format Switch
2 —— Security Slot
3 —— IR Window
4 —— LINE OUT/IN
5 —— 12G-SDI
6 —— RS422 OUT
7 —— RS422 IN
8 —— RS232 IN
9 —— INPUT1
10 —— INPUT2
11 —— RESTORE Button
12 —— MICRO SD
13 —— USB3.0
14 —— HDMI
15 —— 3G-SDI
16 —— LAN(PoE++)
17 —— DC 12V
18 —— SFP+
19 —— GENLOCK
20 —— TIME CODE

4K HDR10 PTZ Camera

FY720 / FY720G

Ultra HD quality | 120fps | 20x optical zoom | PDAF | AI intelligent tracking

It is specially designed for shooting in complex scenes such as live broadcasts of radio and television, remote conferences, education and teaching, and remote command. Equipped with 10-bit color depth and BT.2020 wide color gamut technology to present real and delicate images at the level of the human eye. With 50 MP and 20x optical zoom, everything from the micro-expressions of athletes in sports events to the particle trajectories of stage lights and shadows can be clearly displayed. With AI intelligent tracking technology, you can easily lock high-speed moving targets and control every frame.



Key Features

▼HDR10 high dynamic color standard

Supports the BT.2020 color standard. Compared with BT.709, the color gamut range is doubled. With 10-bit color depth (can display about 1.07 billion colors), the color transition of the picture is closer to the human eye, and the presentation of details such as light and shadow gradients and light and dark contrast is closer to the real world, reducing the difficulty of post-production color adjustment.

▼50 MP

Adopting a new generation of 1/1.55" high-quality CMOS sensor with 50 MP, both detail presentation and color restoration can reach film and television-level production levels. Supports 4K@60fps output and is backward compatible with 1080P and 720P multi-resolutions to meet the needs of high-precision shooting scenes.

▼120fps high-speed capture

Supports 1080P@120fps high frame rate video, which can smoothly and clearly capture the details of fast-moving objects. During slow-motion playback, the picture is clear and free of stuttering, and the visual effects are shocking, bringing a more immersive viewing experience.

▼PDAF millisecond focus

Built-in PDAF focusing technology quickly identifies the target position through the phase detection pixels on the sensor. Whether it is athletes sprinting at high speeds in sports events or singers dancing fiercely on commercial stages, the lens can accurately lock on the target subject in real time, ensuring that the picture is always clear and sharp.

▼AI intelligent tracking

The built-in self-developed ReID and FaceID AI algorithms can accurately identify and focus the subject based on information such as face, human shape, posture, and clothing. It can also accurately track and shoot moving targets in complex environments, so that the target focus is always clear and located at the C position of the screen.

▼Front and rear tally light design

Front and rear tally lights with adjustable brightness show camera status, such as standby or recording, at a glance.

▼60° wide angle + 20x optical zoom

Using a high-quality ultra-high-resolution 4K UHD telephoto lens, the horizontal FOV can reach 60°, and it supports up to 20x optical zoom. With high pixels, it can amplify details without noise and freeze wonderful moments.

▼External ND/CPL filter

The camera has a standard filter mount, which supports the quick installation of ND filters and CPL polarizers. It can easily cope with complex environments such as strong light overexposure and reflection interference, and achieve dynamic light and shadow control and color level optimization to meet the professional needs of complex scenes.

▼Support NDI6

Supports NDI6 transmission protocol, transmits high-quality, low-loss audio and video signals to other devices through the network with lower latency, plug-and-play, and more convenient connection deployment.

▼Support free-D protocol

Supporting the free-d protocol, by sending precise camera tracking information (pan/tilt/zoom/focus) to 3D production software, it perfectly integrates real-life live footage with 3D virtual backgrounds to create a realistic virtual studio.

▼Comprehensive I/O

FY720: 4 simultaneous HD outputs: HDMI, 3G-SDI, USB and LAN;

FY720G: 5 simultaneous outputs: HDMI, 12G-SDI, 3G-SDI, USB and LAN

High-definition digital signals; among them HDMI, 12G-SDI, 3G-SDI, can directly output uncompressed HD lossless video. Supports camera control through RS422, RS485, network and USB interfaces to meet the needs of various practical application scenarios.

Specifications

▼Variants	FY720	FY720G
Video Formats	HDMI: 4KP60, 4KP50, 4KP30, 4KP25, 4K24, 4K59.94, 4KP29.97, 4K23.98, 1080P120, 1080P100, 1080P60, 1080P50, 1080P30, 1080P25, 1080P24, 1080P59.94, 1080P29.97, 1080P23.98, 720P60, 720P50, 720P59.94 3G-SDI: 1080P60, 1080P50, 1080P30, 1080P25, 1080P24, 1080P59.94, 1080P29.97, 1080P23.98, 1080I60, 1080I50, 1080I59.94, 720P60, 720P50, 720P59.94	HDMI/12G-SDI: 4KP60, 4KP50, 4KP30, 4KP25, 4K24, 4K59.94, 4KP29.97, 4K23.98, 1080P120, 1080P100, 1080P60, 1080P50, 1080P30, 1080P25, 1080P24, 1080P59.94, 1080P29.97, 1080P23.98, 720P60, 720P50, 720P59.94 3G-SDI: 1080P60, 1080P50, 1080P30, 1080P25, 1080P24, 1080P59.94, 1080P29.97, 1080P23.98, 1080I60, 1080I50, 1080I59.94, 720P60, 720P50, 720P59.94
video interface	1 ×3G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE 424M standard	1 ×3G-SDI: BNC type, 800mVp-p, 75Ω, following SMPTE 424M standard 1 ×12G-SDI: BNC type, 800mVp-p, 75Ω, following SMPTE 2082 standard

▼Camera

Sensor	1/1.55", CMOS, total pixels: 50MP
Scanning	Progressive
Lens	20X，f=6.55~126mm，F1.8~4.5
Digital Zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Backlight Compensation	Yes
Noise Reduction	3D DNR
S/N Ratio	≥55dB
Horizontal FOV	60.5° ~3.49°
Vertical FOV	36.6° ~ 1.99°
Pan Range	±170°
Tilt Range	-30° ~ 90°
Pan Speed	1.7° ~100° /S
Tilt Speed	1.7° ~69.9° /S
H/V Flip	Yes
Image Freeze	Yes
PoE+ powered	Yes
Presets	255
Preset Accuracy	0.1°

▼Network Features

Video Codecs	H.264 / H.265 / MJPEG
Video Streams	Main Stream, Substream
Main-Stream Resolution	3840*2160、1920*1080、1280*720、1024*576、720*480、720*408、640*480、640*360
Substream Resolution	720*480、720*408、640*480、640*360、480*320、320*240
Bit Rate	First stream: 32kbps~51200kbps Second stream: 32kbps~20480kbps
Bit Rate Control	VBR / CBR
Frame Rate	1–60fps; 120fps at 1080P or below
Audio Codec	AAC
Audio compression bit rate	96K□128K
Protocols	NDI6, free-D, TCP/IP, HTTP, RTSP, RTMP, ONVIF, DHCP, SRT, multicast, etc.

▼Inputs / Outputs

Network Port	1 LAN: 10M/100M/1000Mbps adaptive Ethernet port
USB interface	1 USB2.0, Type-A, Host interface (reserved) 1 USB3.0, Type-C, transmits audio and video signals
Audio I/O	1 line in: 3.5mm audio input interface 1 line out: 3.5mm audio output interface
Control I/O	1 channel RS422 IN / RS485: RJ45, VISCA/Pelco-D/Pelco-P protocol 1 channel RS422 OUT: RJ45, VISCA/Pelco-D/Pelco-P protocol
SD card	1 × Micro SD
RESTPRE button	Yes
Power Input	JEITA type (DC IN 12V)

▼USB Features

Operating Systems	Windows 8/10/11, MacOS X, Linux 2.4.6 or later, Android with UVC drivers.
Color / Compression	YUY2 / H.264 / MJPEG
Video Formats	YUY2: Max 1080P30 H.264: Max 4KP60 MJPEG: Max 4KP60
USB Audio	Yes
USB Video Protocol	UVC 1.1
UVC PTZ Control	Yes

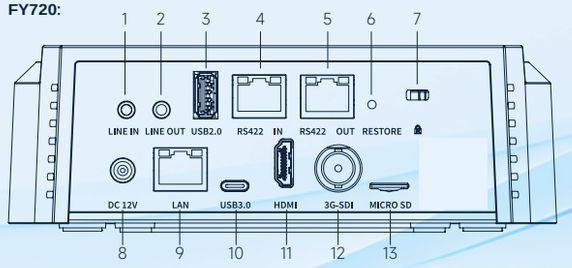
▼General

Input Voltage	DC 12V/PoE+（802.3at）
Input Current	3A
Operating Temp.	0° C~40° C
Storage Temp.	-40° C~60° C
Dimensions	170mm(W) × 196mm(D) × 228mm(H)
Net Weight	2.3kg

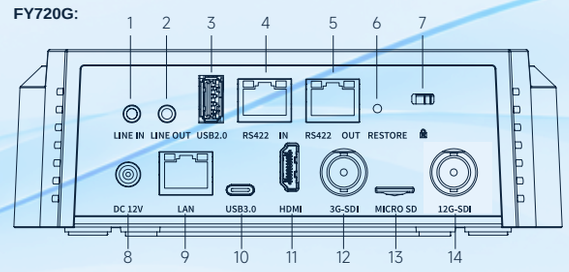
Connections

1 —— LINE IN interface
2 —— LINE OUT interface
3 —— USB2.0 interface
4 —— RS422 IN interface
5 —— RS422 OUT interface
6 —— RESTORE button
7 —— Security keyhole DC 12V interface LAN interface USB3.0 interface
8 ——
9 ——
10 ——
11 —— HDMI interface
12 —— 3G-SDI interface
13 —— MICRO SD
14 —— 12G-SDI interface

FY720:



FY720G:



4K AI Tracking Camera

FY751BA / FY752A / FY752AG

Ultra HD quality · Optical zoom · AI Human Tracking · remote control · Comprehensive I/O

Designed for broadcasting, lecture capture and government meetings, this camera delivers detailed 4K@60fps images. AI human tracking and a quiet mechanical pan/tilt unit follow subjects accurately, smoothly and reliably throughout the scene.



FY751BA



FY752A / FY752AG

Key Features

▼4K 60FPS

FY752A / FY752AG:

Adopts 1/1.8-inch, 8.42 million pixel high-quality UHD CMOS sensor.

FY751BA:

Adopts 1/2.5-inch, 8.51 million pixel high-quality UHD CMOS sensor. Achieving high-quality images with a maximum output of 4K60FPS. And it is backward compatible with various resolutions such as 1080P/720P.

▼High-quality optical zoom + UHD lens

FY751BA:

Uses a high-quality ultra-high-resolution 4K UHD wide-angle lens, which supports up to 12x optical zoom, and the horizontal FOV at the wide-angle end reaches 80.8°.

FY752A / FY752AG:

Uses a high-quality ultra-high-resolution 4K UHD telephoto lens, which supports up to 20x optical zoom, and the horizontal FOV at the wide-angle end reaches 60°.

▼AI speaker tracking

The built-in self-developed ReID pedestrian re-identification technology can accurately identify the speaker's body shape, appearance, clothing and other information. When the speaker moves in the conference room, the camera automatically follows the camera stably to ensure that the speaker is always in the center of the picture. Even if there are multiple people interfering or the speaker walks out of the frame, he can be quickly captured and followed when he enters the frame again.

▼remote control

FY751BA / FY752A:

Camera control via RS232, RS485, network or USB.

FY752AG:

Multiple control methods, RS232, RS422/RS485, network and USB can be used to control the camera.

▼Gravity Sensor

Supports automatic image flipping, and the camera can be installed or hoisted to meet the needs of more practical engineering projects.

▼Support free-D protocol

Supporting the free-D protocol, by sending precise camera tracking information (pan/tilt/zoom/focus) to 3D production software, it perfectly integrates real-life live footage with 3D virtual backgrounds to create a realistic virtual studio.

▼Uncompressed professional video output

FY751BA / FY752A:

Supports HDMI2.0 and 3G-SDI interfaces, which can directly output uncompressed digital video.

FY752AG:

Supports HDMI2.0 and 12GSDI interfaces, and can directly output 4KP60 uncompressed digital video.

▼Support Dante AV-H [1]

Real-time high-fidelity audio and video streams are transmitted through Ethernet, instantly compatible with a variety of Dante products on the market, and can be controlled and managed uniformly through the Dante Controller software. Use network time protocol to ensure device clock synchronization, providing flexibility and low-latency audio and video routing.

▼Support NDI®|HX3 [1]

NDI®|HX3 is a new generation of network video transmission method. It is plug-and-play, low-latency, easy to implement and deploy, has a good ecosystem, and supports simultaneous transmission of audio, video, and control.

▼Rich and complete interface

FY751BA / FY752A:

In addition to the HDMI 2.0 interface, it is also equipped with a 3G-SDI interface. The 3G-SDI interface has an effective transmission distance of up to 150 meters (1080p30). HDMI or 3G-SDI, USB, and LAN can output 3 HD digital signals at the same time[2].

FY752AG:

In addition to the HDMI 2.0 interface, it is also equipped with a 12G-SDI interface. HDMI, 12G-SDI, USB, and LAN can output 4 channels of HD digital signals at the same time.

Remarks:

1. This feature is optional.

2. If you need to output 4 channels of HD digital signals at the same time, please contact the manufacturer for specific version support.

Specifications

▼Variants	FY751BA	FY752A	FY752AG
Video Formats	3G-SDI: 1080P60, 1080P50, 1080P30, 1080P29.97, 1080P59.94, 1080P25; 1080I60, 1080I50, 1080I59.94; 720P60, 720P59.94		12G-SDI: 4KP60, 4KP59.94, 4KP50, 4KP30, 4KP25, 4KP29.97, 1080P60, 1080P50, 1080I60, 1080I50, 1080P30, 1080P59.94, 1080I59.94, 1080P29.97, 720P60, 720P59.94
Sensor	1/2.5 inches, CMOS, effective: 8.51 MP	1/1.8 inch, CMOS, effective: 8.42 MP	
lens focal length	12×, f=3.47mm~41.65mm, F1.84~F3.72	20×, f=6.25mm~125mm, F1.58~F3.95	
Horizontal FOV	80.8° -7.5°	60° ~ 3.5°	
Vertical FOV	49.9° ~ 4.3°	35.7° ~ 2.0°	
USB video format	1 YUY2: Maximum 1080P30(USB3.0); YUY2: Maximum 1080P5(USB2.0); H.264 AVC: Maximum 2160P30; H.265 HEVC: Maximum 2160P30; MJPEG: Maximum 2160P30		YUY2: Max 1080P5; H.264 AVC: Max 2160P30; H.265 HEVC: up to 2160P30; MJPEG: up to 2160P30
HD Output	1 × HDMI: Version 2.0 1 × 3G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE424M standard		1 × HDMI: Version 2.0 1 × 12G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE2082 standard
USB interface	1 × USB2.0, Type-C type (optional upgrade to USB3.0)		1 × USB2.0, Type-C
Control I/O	1 × RS485: 3-core Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol		1 × RS422/RS485: 4/2 core Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol

▼Camera	
Video Formats	HDMI: 4KP60, 4KP59.94, 4KP50, 4KP30, 4KP29.97, 4KP25, 1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080P25, 1080I60, 1080I59.94, 1080I50, 720P60, 720P59.94
Scanning	Progressive
Digital Zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Color Temp., Auto, Indoor/Outdoor, One-Push, Manual
Backlight Comp.	Yes
Noise Reduction	3D DNR
S/N Ratio	≥ 55dB
Tilt Range	-30° ~ +90°
Pan Range	±162.5°
Pan Speed	1.8° ~ 80° /s
Tilt Speed	1.5° ~ 49° /s
H/V Flip	Yes
Image Freeze	Yes
PoE+ powered	Yes
Presets	255
Preset Accuracy	0.1°

▼Inputs / Outputs	
Network Port	1 RJ45: 10M/100M/1000M adaptive Ethernet ×
Audio I/O	1 Line In, 3.5mm audio interface
RESTORE button	Yes
Power Input	JEITA type (DC IN 12V)
Control I/O	1 RS232 In: 8-pin small DIN, maximum distance 30 meters, VISCA/Pelco-D/Pelco-P protocol 1 RS232 Out: 8-pin small DIN, maximum distance 30 meters, VISCA protocol networking

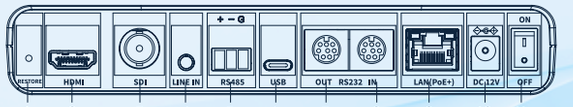
▼Network Features	
Video Codecs	H.265 / H.264 / MJPEG
Video Streams	First stream, second stream
Main-Stream Resolution	3840×2160, 1920×1080, 1280×720, 1024×576, etc.
Substream Resolution	720×480, 320×240, etc.
Video Bit Rate	First channel: 32kbps~51200kbps Second channel: 32kbps~20480kbps
Bit Rate Control	VBR / CBR
Frequency	50Hz: 1fps~50fps, 60Hz: 1fps~60fps
Audio Bit Rate	96Kbps, 128Kbps
Protocols	Dante AV-H, NDI®|HX3, Free-D,SRT, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, Multicast, etc.
Audio Codec	AAC

▼USB Features	
Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 or above, Android needs a version containing UVC related drivers
USB Audio	Yes
USB Video Protocol	UVC 1.1~1.5
color space	YUY2 / H.264 / MJPEG / H.265
UVC PTZ Control	Yes

▼General	
Display	Yes
Input Voltage	DC 12V /PoE+ (802.3at)
Input Current	2A (maximum)
Operating Temp.	0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	18W (maximum)
Dimensions	223mm (W) × 163mm (D) × 166mm (H)
Net Weight	1.8kg

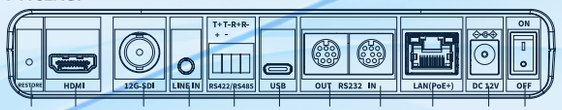
Connections

FY751BA / FY752A:



1 —— RESTORE
2 —— HDMI
3 —— FY751BA/ FY752A: SDI interface
FY752AG 12G-SDI
4 —— LINE IN interface
5 —— FY751BA/FY752A: RS485 interface
FY752AG: RS422/RS485 interface
6 —— USB interface
7 —— RS232 OUT
8 —— RS232 IN
9 —— LAN
10 —— DC 12V Power
11 —— ON/OFF

FY752AG:



4K Long-Zoom PTZ Camera

FY630A

1/1.8" CMOS | Ultra HD quality | 30x optical zoom | remote control | Comprehensive I/O

Designed specifically for application scenarios such as administrative meetings, academic reports, education and teaching, live broadcasts, etc., it uses a 1/1.8" large-inch CMOS image sensor, and the image quality is more detailed and fuller at the same 4K resolution. Equipped with a 30x ultra-long optical zoom lens, which can easily meet the shooting needs of large and ultra-large scenes. With the AI speaker tracking function, target tracking and shooting in the entire field are accurate and stable, bringing a high-quality multimedia experience.



Key Features

▼ 4K Ultra HD quality

Using a new generation of 1/1.8-inch, 8.42 million pixel high-quality UHD CMOS sensor, it achieves high-quality images with a maximum output of 4K60FPS. And it is backward compatible with various resolutions such as 1080P and 720P.

▼30x optical zoom

Using a high-quality ultra-high-resolution telephoto lens, the horizontal FOV can reach 59°, and it supports up to 30x optical zoom, allowing you to record clearly from both distance and distance.

▼AI speaker tracking

The built-in self-developed ReID pedestrian re-identification technology can accurately identify the speaker's body shape, appearance, clothing and other information. When the speaker moves in the conference room, the camera automatically follows the camera stably to ensure that the speaker is always in the center of the picture. Even if there are multiple people interfering or the speaker walks out of the frame, he can be quickly captured and followed when he enters the frame again.

▼Support NDI®|HX2 [1]

Supports NDI®|HX2 transmission protocol, transmits high-quality, low-loss audio and video signals to other devices through the network with lower latency, plug-and-play, and more convenient connection deployment.

▼Support Dante AV-H [1]

Real-time high-fidelity audio and video streams are transmitted through Ethernet, instantly compatible with a variety of Dante products on the market, and can be controlled and managed uniformly through the Dante Controller software. Use network time protocol to ensure device clock synchronization, providing flexibility and low-latency audio and video routing.

▼Support free-D protocol

Supporting the free-d protocol, by sending precise camera tracking information (pan/tilt/zoom/focus) to 3D production software, it perfectly integrates real-life live footage with 3D virtual backgrounds to create a realistic virtual studio.

▼Gravity Sensor

Built-in gravity sensor supports automatic image flipping, and the camera can be installed or hoisted to meet more practical engineering needs.

▼remote control

Camera control via RS232, RS485, network or USB.

▼Rich and complete interface

In addition to the HDMI 2.0 interface, it is also equipped with a 3G-SDI interface. The 3G-SDI interface has an effective transmission distance of up to 150 meters (1080p30). HDMI or 3G-SDI, USB, and LAN can output 3 HD digital signals at the same time[2].

Remarks:

1. This feature is optional.

2. If you need to output 4 channels of HD digital signals at the same time, please contact the manufacturer for specific version support.

Specifications

▼Camera

Sensor	1/1.8 inch, CMOS, effective: 8.42 MP
Scanning method Lens focal length	Progressive 30×, f=7.1mm ~ 210mm, F1.61 ~ F5.19
digital zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Backlight Comp.	Yes
Noise Reduction	3D DNR
S/N Ratio	⩾ 55dB
Horizontal FOV	59.2° ~ 2.5°
Vertical FOV	34.6° ~ 1.4°
Pan Range	±170°
Tilt Range	-30° ~ +90°
Pan Speed	1.7° ~ 100° /s
Tilt Speed	1.7° ~ 69.9° /s
H/V Flip	Yes
Image Freeze	Yes
PoE+ powered	Yes
Presets	255
Preset Accuracy	0.1°

▼Inputs / Outputs

Video Formats	**HDMI:** 4KP60, 4KP59.94, 4KP50, 4KP30, 4KP25, 4KP29.97, 1080P60, 1080P50, 1080I60, 1080I50, 1080P30, 1080P59.94, 1080I59.94, 1080P29.97, 720P60, 720P59.94 ; **3G-SDI:** 1080P60, 1080P50, 1080P30, 1080P29.97,1080P59.94, 1080P25;1080I60, 1080I50, 1080I59.94; 720P60, 720P59.94
HD Output	1 × HDMI: 2.0; 1 × 3G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE 424M standard
Network Port	1 × RJ45: 10M/100M/1000M adaptive Ethernet
Audio I/O	1 × Line In, 3.5mm audio interface; 1 × Line Out, 3.5mm audio interface
USB interface	1 × USB2.0, Type-A 1 × USB3.0, Type-B [1]
Control I/O	1 × RS232 In: 8-pin small DIN, maximum distance 30 meters, VISCA/Pelco-D/Pelco-P protocol; 1 × RS232 Out: 8-pin small DIN, maximum distance 30 meters, for VISCA protocol networking; 1 × RS485: 2-core Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
RESTORE button	Yes
Power Input	JEITA type (DC IN 12V)

▼Network Features

Video Codecs	H.265 / H.264 / MJPEG
Video Streams	First stream, second stream 3840×2160, 1920×1080, 1280×720, 1024×576, etc.
Main-Stream Resolution	
Substream Resolution	720×480, 320×240, etc.
Video Bit Rate	First channel: 32kbps~51200kbps Second channel: 32kbps~20480kbps
Bit Rate Control	VBR / CBR
Frequency	50Hz: 1fps~50fps, 60Hz: 1fps~60fps
Audio Codec	AAC
Audio Bit Rate	96Kbps, 128Kbps
Protocols	Dante AV-H, NDI®|HX2, Free-D, SRT, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, Multicast, etc.

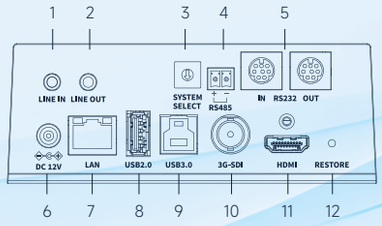
▼USB Features

Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 and above, Android needs a version containing UVC related drivers
Color / Compression	YUY2 / H.264 / MJPEG / H.265
Video Formats	YUY2: Maximum 1080P5 (USB2.0); YUY2: Maximum 1080P30 (USB3.0) ; H.264 AVC: Maximum 2160P30; H.265 HEVC: Maximum 2160P30; MJPEG: Maximum 2160P30
USB Audio	Yes
USB Video Protocol	UVC 1.1~1.5
UVC PTZ Control	Yes

▼General

Input Voltage	DC 12V /PoE+ (802.3at)
Input Current	2A (maximum)
Operating Temp.	0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	18W (maximum)
Dimensions	170mm (W) × 196mm (D) × 228mm (H)
Net Weight	2.0kg

Connections



1 —— LINE IN
2 —— LINE OUT
3 —— SYSTEM SELECT
4 —— RS485
5 —— RS232 IN/OUT
6 —— DC 12V Power
7 —— LAN
8 —— USB2.0
9 —— USB3.0 [1]
10 —— 3G-SDI
11 —— HDMI
12 —— RESTORE

4K Professional PTZ Camera

FY60AS / FY61AS

Ultra HD quality | AI Human Tracking | wide angle lens | remote control | Comprehensive I/O

Designed specifically for medium and large conference room scenarios, it uses a larger UHD CMOS sensor to bring 4K (3840×2160) ultra-high-resolution high-quality images. Equipped with a 12-20x ultra-long optical zoom lens and incorporates AI human tracking algorithm technology to achieve accurate identification and tracking of targets anywhere in the venue, making the conference experience more outstanding.



FY60AS



FY61AS

Key Features

▼4K Ultra HD

FY60AS:

Adopts 1/1.8-inch, 8.42 million pixel high-quality UHD CMOS sensor.

FY61AS:

Adopts 1/2.5-inch, 8.51 million pixel high-quality UHD CMOS sensor. The 4K60fps series of professional AI PTZ cameras achieves 4K (3840×2160) ultra-high-resolution high-quality images. And it is backward compatible with various resolutions such as 1080P/720P.

▼High-quality optical zoom + UHD lens

FY60AS:

Uses a high-quality ultra-high-resolution 4K UHD telephoto lens, which supports up to 20x optical zoom, and the horizontal FOV at the wide-angle end reaches 60°.

FY61AS:

Uses a high-quality ultra-high-resolution 4K UHD wide-angle lens, which supports up to 12x optical zoom, and the horizontal FOV at the wide-angle end reaches 71°.

▼AI speaker tracking

The built-in self-developed ReID pedestrian re-identification technology can accurately identify the speaker's body shape, appearance, clothing and other information. When the speaker moves in the conference room, the camera automatically follows the camera stably to ensure that the speaker is always in the center of the picture. Even if there are multiple people interfering or the speaker walks out of the frame, he can be quickly captured and followed when he enters the frame again.

▼remote control

Camera control via RS232, RS485, network or USB.

▼Gravity Sensor [1]

Supports automatic image flipping, and the camera can be installed or hoisted to meet the needs of more practical engineering projects.

▼Uncompressed professional video output

Supports HDMI2.0 and 3G-SDI interfaces, which can directly output uncompressed digital video.

▼low illumination

A high-S/N CMOS sensor and 3D noise reduction suppress image noise in low light, keeping pictures clean and clear with an image S/N ratio of up to 55dB.

▼Support Dante AV-H [1]

Real-time high-fidelity audio and video streams are transmitted through Ethernet, instantly compatible with a variety of Dante products on the market, and can be controlled and managed uniformly through the Dante Controller software. Use network time protocol to ensure device clock synchronization, providing flexibility and low-latency audio and video routing.

▼Support NDI®|HX3 [1]

NDI®|HX3 is a new generation of network video transmission method. It is plug-and-play, low-latency, easy to implement and deploy, has a good ecosystem, and supports simultaneous transmission of audio, video, and control.

▼Support free-D protocol

Supporting the free-d protocol, by sending precise camera tracking information (pan/tilt/zoom/focus) to 3D production software, it perfectly integrates real-life live footage with 3D virtual backgrounds to create a realistic virtual studio.

▼Rich and complete interface

In addition to the HDMI 2.0 interface, it is also equipped with a 3G-SDI interface. The 3G-SDI interface has an effective transmission distance of up to 150 meters (1080p30). HDMI or 3G-SDI, USB, and LAN can output 3 HD digital signals at the same time[2].

Remarks:

1. This feature is optional.

2. If you need to output 4 channels of HD digital signals at the same time, please contact the manufacturer for specific version support.

Specifications

▼Variants	FY60AS	FY61AS
Sensor	1/1.8 inch, CMOS, effective: 8.42 MP	1/2.5 inches, CMOS, effective: 8.51 MP
lens focal length	20×, f=6.25mm~125mm, F1.58~F3.95	12×, f=4.4mm~52.8mm, F1.8~F2.6
Horizontal FOV	60° ~ 3.5°	71° ~ 8.2°
Vertical FOV	35.7° ~ 2.0°	42.7° ~ 4.5°

▼Camera

Video Formats	**HDMI:** 4KP60, 4KP59.94, 4KP50, 4KP30, 4KP25, 4KP29.97, 1080P60, 1080P50, 1080I60, 1080I50, 1080P30, 1080P59.94, 1080I59.94, 1080P29.97, 720P60, 720P59.94; **3G-SDI:** 1080P60, 1080P50, 1080P30, 1080P29.97, 1080P59.94, 1080P25; 1080I60, 1080I50, 1080I59.94; 720P60, 720P59.94;
Scanning	Progressive
Digital Zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Backlight Comp.	Yes
Noise Reduction	3D DNR
S/N Ratio	≥ 55dB
Pan Range	±170°
Tilt Range	-30° ~ +90°
Pan Speed	1.7° ~ 100° /s
Tilt Speed	1.7° ~ 69.9° /s
H/V Flip	Yes
Image Freeze	Yes
PoE+ powered	Yes
Presets	255
Preset Accuracy	0.1°

▼USB Features

Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 or above, Android needs a version containing UVC related drivers
Color / Compression	YUY2 / H.264 / MJPEG / H.265
Video Formats	YUY2: Maximum 1080P5; H.264 AVC: Maximum 2160P30; H.265 HEVC: Maximum 2160P30; MJPEG: Maximum 2160P30
USB Audio	Yes
USB Video Protocol	UVC 1.1~1.5
UVC PTZ Control	Yes

▼Network Features

Video Codecs	H.265 / H.264 / MJPEG
Video Streams	First stream, second stream
Main-Stream Resolution	3840×2160, 1920×1080, 1280×720 etc.
Substream Resolution	720×480, 320×240, etc.
Video Bit Rate	First channel: 32kbps~51200kbps Second channel: 32kbps~20480kbps
Bit Rate Control	VBR / CBR
Frequency	50Hz: 1fps~50fps, 60Hz: 1fps~60fps
Audio Codec	AAC
Audio Bit Rate	96Kbps, 128Kbps
Protocols	Dante AV-H, NDI®|HX3, Free-D, SRT, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, Multicast, etc.

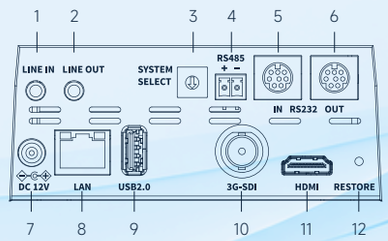
▼Inputs / Outputs

HD Output	1 HDMI: 2.0; 1 3G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE 424M standard
Network Port	1 RJ45: 10M/100M/1000M adaptive Ethernet
Audio I/O	1 Line In, 3.5mm audio interface; 1 Line Out, 3.5mm audio interface
USB interface	1 USB2.0, Type-A (can be configured as Host or Device via software)
Control I/O	1 RS232 In: 8-pin small DIN, maximum distance 30 meters, VISCA/Pelco-D/Pelco-P protocol; 1 RS232 Out: 8-pin small DIN, maximum distance 30 meters, for VISCA protocol networking; 1 RS485: 2-core Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
RESTORE button	Yes
Power Input	JEITA type (DC IN 12V)

▼General

Input Voltage	DC 12V /PoE+ (802.3at)
Input Current	2A (maximum)
Operating Temp.	0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	18W (maximum)
Dimensions	142mm (W) × 169mm (D) × 175mm (H)
Net Weight	1.5kg

Connections



1 —— LINE IN
2 —— LINE OUT
3 —— SYSTEM SELECT
4 —— RS485
5 —— RS232 IN
6 —— RS232 OUT
7 —— DC 12V Power
8 —— LAN
9 —— USB2.0
10 —— 3G-SDI
11 —— HDMI
12 —— RESTORE

4K AI Tracking PTZ Camera

FY60D / FY61D

AI intelligent framing | Ultra HD quality | NDI | Virtual Production | Comprehensive I/O

A professional intelligent tracking PTZ camera specially designed for conferences, education, live broadcasts and other scenarios. It deeply integrates self-developed AI algorithms and high-performance image processing technology. With 4K@60fps UHD imaging, 12-20x optical zoom and ReID+FaceID dual algorithm tracking capabilities, it can accurately capture far and near targets and follow them to shoot clear close-up images. Rich video output interface configurations and NDI low-latency transmission protocol bring high-quality video recording experience.



FY60D



FY61D

Key Features

▼4K Ultra HD

Uses a new generation of 1/2.8-inch 8.42 million pixel UHD CMOS sensor, which supports the output of up to 4K@60fps ultra-smooth images with delicate and lifelike image quality. It is also backward compatible with multiple resolutions such as 1080P and 720P to adapt to the image quality output requirements of different scenes.

▼High-quality optical zoom + UHD lens

FY60D:

Equipped with a high-quality ultra-high-resolution telephoto lens that supports up to 20× optical zoom, it can clearly capture long-distance picture details; the wide-angle end has a horizontal FOV of 61.2°, and features a large-range rotating PTZ pan/tilt to easily meet the needs of wide-area panoramic and close-up shooting.

FY61D:

Equipped with a high-quality ultra-high-resolution telephoto lens that supports up to 12× optical zoom, it can clearly capture long-distance picture details; the wide-angle end has a horizontal FOV of 72.8°, and features a large-range rotating PTZ pan/tilt to easily meet the needs of wide-area panoramic and close-up shooting.

▼AI Auto Framing

Proprietary FaceID and auto-framing algorithms detect participant numbers and positions, then adjust focus and viewing angle to keep everyone clearly and evenly framed.

▼AI intelligent tracking shooting

Equipped with self-developed ReID and FaceID algorithms, it achieves high-precision subject recognition based on multi-dimensional features of human skeleton, posture, clothing and face, automatically locks and smoothly tracks the speaker's movement, ensuring stable and clear close-up images; supports area tracking function, when the speaker moves within multiple areas set by the camera, the camera automatically follows the shooting area, taking into account image stability and scene coverage.

▼Support NDI®|HX2 protocol

Natively supporting the NDI®|HX2 transmission protocol, only one network cable is needed to achieve high-quality, low-latency IP video signal transmission, making wiring simpler.

▼Compatible with free-D protocol

Compatible with the free-d protocol, it can synchronize precise tracking information such as camera pan/tilt/zoom to 3D production software, realizing the perfect integration of real-life footage and 3D virtual background, and easily creating an immersive virtual studio.

▼Comprehensive I/O

Equipped with HDMI 1.4, 3G-SDI, USB, and LAN four-way interfaces, it can output HD digital signals simultaneously, adapting to multi-device collaboration scenarios.

▼remote control

Supports multiple control methods, RS232, RS485, network and USB can be used to control the camera.

▼local storage

Supports local storage function, enabling direct local recording to USB flash drive without NVR.

Specifications

▼Variants	FY60D	FY61D
lens focal length	20x, f4.42mm ~ 88.5mm, F1.8 ~ F2.8	12x, f4.1mm ~ 49.2mm, F1.8 ~ F2.8
Horizontal FOV	61.2° ~ 3.38°	72.8° ~ 6.8°
Vertical FOV	35.3° ~ 1.89°	44.1° ~ 3.8°

▼Camera

video signal system	4KP30, 4KP29.97, 4KP25, 1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50
Sensor type	1/2.8 inches, CMOS, effective: 8.42 MP
Scanning	Progressive
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
electronic shutter	1/30s ~ 1/10000s
White Balance	Auto, Manual, One-Push, Color Temp., Indoor/Outdoor
Noise Reduction	2D, 3D digital noise reduction
Backlight Comp.	Yes
S/N Ratio	⩾ 55dB
Pan Range	±170°
Tilt Range	-30° ~ +90°
Pan Speed	1.7° ~ 100° /s
Tilt Speed	1.7° ~ 69.9° /s
H/V Flip	Yes
Image Freeze	Yes
Presets	255
Preset Accuracy	0.1°

▼Network Features

Video Codecs	H.264 / H.265 / MJPEG
Video Streams	Main Stream, Substream
Main-Stream Resolution	3840×2160, 1920x1080, 1280x720 etc.
Substream Resolution	1280x720, 720x480, 320x240 etc.
Video Bit Rate	First channel: 32kbps~102400kbps Second channel: 32kbps~6144kbps
Bit Rate Control	VBR / CBR
Frame Rate	50Hz: 1fps~50fps, 60Hz: 1fps~60fps
Audio Codec	AAC
Audio Bit Rate	96Kbps, 128Kbps
Support network protocols	NDI®|HX2, free-d, SRT, TCP/IP, HTTP(S), RTSP, RTMP(S), Onvif, DHCP, multicast, etc.

▼USB Features

Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 or above, Android needs a version containing UVC related drivers
Color / Compression	YUY2 / MJPEG / H.264
Video Formats	Supports multiple video formats with different frame rates and resolutions, up to 1080P60 YUY2 output
USB Video Protocol	UVC 1.1
USB Audio	Yes
UVC PTZ Control	Yes

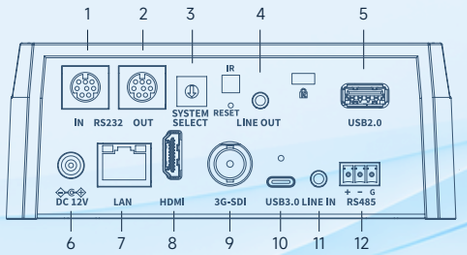
▼Inputs / Outputs

USB interface	1 USB2.0: Type A socket 1 USB3.0: Type C socket
HD Output	1 × HDMI: version 1.4 1 × 3G-SDI: BNC type, 800mVp-p, 75Ω, follows SMPTE 424M standard
Network Port	1 × RJ45: 10M/100M/1000M adaptive Ethernet port, supports PoE
Audio I/O	1 × Line In, 3.5mm audio interface 1 × Line Out, 3.5mm audio interface
Control I/O	1 × RS232 In: 8-pin small DIN, maximum distance: 30 meters, VISCA/Pelco-D/Pelco-P protocol; 1 × RS232 Out: 8-pin small DIN, maximum distance: 30 meters, for VISCA protocol networking; 1 × RS485: 2-core Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
RESTORE button	Yes
Power Input	JEITA type (DC IN 12V)

▼General

Input Voltage	DC 12V, PoE+ (802.3at)
Input Current	2A (maximum)
Operating Temp.	0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	18W (maximum)
Dimensions	169mm (W) × 142mm (D) × 175mm (H)
Net Weight	1.5kg

Connections



1 —— RS232 IN
2 —— RS232 OUT
3 —— SYSTEM SELECT
4 —— LINE OUT
5 —— USB2.0
6 —— DC 12V Power
7 —— LAN
8 —— HDMI
9 —— 3G-SDI
10 —— USB3.0
11 —— LINE IN
12 —— RS485

4K Zoom Box Camera

FY2612 / FY2620

Ultra HD quality · Optical zoom · Built-in Mic · Support PoE · Comprehensive I/O

Designed for the needs of professional broadcasts, teaching training, administrative meetings and other scenes, it uses a 4K ultra-high-resolution image sensor with an ultra-long optical zoom lens, and features a digital array microphone to easily meet the audio and video recording requirements of the scene. The body has its own operation buttons and supports infrared remote control and web page operations, making it more convenient.



Key Features

▼4K 60FPS

Using a new generation of 1/2.8-inch, 8.4-megapixel high-quality UHD CMOS sensor, it achieves high-quality images with a maximum output of 4K60FPS. And it is backward compatible with various resolutions such as 1080P and 720P.

▼High-quality optical zoom + HD wide-angle lens

FY2620:

Uses a high-quality ultra-high-resolution full-HD telephoto lens, supports up to 20× optical zoom, and has a horizontal FOV of 61.2° at the wide-angle end.

FY2612:

Using a high-quality ultra-high-resolution full HD lens, the maximum horizontal FOV can reach 72.8°, and it also supports classic 12× optical zoom.

▼Support key operation

The fuselage comes with commonly used operation buttons, so you can quickly control the camera without a remote control, making it convenient for on-site installation and debugging.

▼Fully functional web page

The device comes with a full-featured web page, through which the configuration and application of all functions can be completed, which greatly facilitates the installation and debugging of on-site equipment.

▼Fast TOF Focus [1]

The body features a laser-assisted focus device, which uses advanced autofocus algorithms to achieve extremely fast and accurate autofocus.

▼3G-SDI support

1080P60 SDI (LEVEL A) output better meets the professional field's requirements for image clarity and smoothness.

▼Built-in Mic

The built-in microphone array achieves 360° omnidirectional audio pickup; equipped with a self-developed noise suppression algorithm, the audio pickup distance is up to 6 meters, and the audio pickup effect is clear.

▼Dual infrared reception

The dual infrared sensing design on the front and rear of the camera greatly expands the infrared reception range and enhances the remote control operation experience.

▼Rich and complete interface

Supports HDMI, SDI, USB, and network output to better adapt to the needs of different application scenarios.

Remarks:

1. This feature is optional.

Specifications

▼Variants	FY2612	FY2620
Optical zoom	12×	20×
Horizontal FOV	72.8° ~ 6.8°	61.2° ~ 3.38°
Vertical FOV	44.1° ~ 3.8°	35.3° ~ 1.90°
focal length	f=4.1mm~49.2mm	f=4.7mm~94mm
aperture	F1.8~F2.68	F1.6~F3.6

▼Camera

Video Formats	HDMI: 4KP60, 4KP50, 4KP30, 4KP25, 4KP59.94, 4KP29.97, 1080P60, etc. 3G-SDI: 1080P60, 1080P50, 1080P30, 1080P25, 720P60, etc.
Sensor	1/2.8 inches, CMOS, effective: 8.4 MP
Focus mode	Automatic, manual, one-touch
Min. Illumination	0.5Lux
Shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Backlight Comp.	Yes
Noise Reduction	2D/3D digital noise reduction
S/N Ratio	≥ 55dB
Anti-flicker	Yes
H/V Flip	Yes
Image Freeze	Yes
PoE Power	Yes
Presets	255

▼Equipment operation

Body buttons	Button type: touch button; Quantity: 8; Function: ZOOM operation, image style switching, brightness adjustment, menu control, image freezing and focus mode switching.
web page	Full web control and configuration
remote control	Full range of infrared remote control support

▼Inputs / Outputs

HD Output	1 ×HDMI: 2.0; 1 3G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE 424M standard, backward compatible
Network Port	1 ×RJ45: 10M / 100M /1000M adaptive Ethernet port; supports PoE (802.3af)
audio input	1 ×Line In, 3.5mm audio interface; 2 microphone input ×
audio output	1 ×Line Out, 3.5mm audio interface
USB interface	1 × USB 3.0, Type-C type; 1 × USB 2.0, Type-A type (Host port)
Control I/O	1 × RS485: 3-core Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
Power Input	JEITA type (DC IN 12V)

▼Network Features

Video Codecs	H.264 / H.265 / MJPEG
Video Streams	First stream, second stream
Main-Stream Resolution	3840×2160, 1920×1080, 1280×720 etc.
Substream Resolution	1920×1080, 1280×720, 1024×576 etc.
Video Bit Rate	First stream: 32Kbps~81920Kbps Second stream: 32Kbps~6144Kbps
Bit Rate Control	VBR / CBR
Frequency	50Hz: 1fps~50fps, 60Hz: 1fps~60fps
encoding protocol	AAC
Sample Rate	48K
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Protocols	NDI®|HX2, SRT, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, multicast, etc.

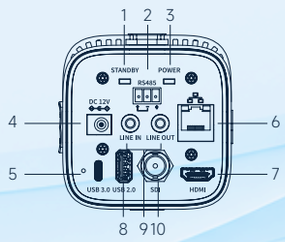
▼USB Features

Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 and above, Android needs a version containing UVC related drivers
Color / Compression	MJPEG / YUY2
Video Formats	YUY2: Maximum 1080P30 MJPEG: Maximum 2160P30
USB Audio	Yes
USB Video Protocol	UVC 1.1
UVC PTZ Control	Yes

▼General

Input Voltage	DC 12V / PoE (802.3af)
Input Current	1A (maximum)
Operating Temp.	-10° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Dimensions	145mm (W) × 76mm (D) × 78.5mm (H)

Connections



1 —— STANDBY
2 —— RS485
3 —— POWER
4 —— DC 12V
5 —— USB3.0 Type-C
6 —— LAN
7 —— HDMI
8 —— USB2.0 Type-A
9 —— LINE IN / LINE OUT
10 —— 3G-SDI

4K Professional PTZ Camera

FY60A / FY61A / FY61BA

Ultra HD quality | Support NDI | Low power sleep | remote control | Comprehensive I/O

Designed specifically for medium and large conference room scenes, it uses a larger UHD CMOS sensor to bring 4K (3840×2160) ultra-high-resolution high-quality images; it features a 12-20x optical zoom lens, which can accurately lock on distant and near targets for shooting; it incorporates image processing technologies such as intelligent exposure, without fear of complex light interference in the environment, ensuring stable and consistent picture presentation and an excellent viewing experience.



FY60A FY61A FY61BA

Key Features

▼4K Ultra HD

FY60A:

Adopts 1/1.8-inch, 8.42 million pixel high-quality UHD CMOS sensor.

FY61A / FY61BA:

Adopts 1/2.5-inch, 8.51 million pixel high-quality UHD CMOS sensor. The 4K30fps series UHD PTZ cameras achieves 4K (3840×2160) ultra-high-resolution high-quality images. And it is backward compatible with various resolutions such as 1080P/720P.

▼High-quality optical zoom + UHD lens

FY60A:

Uses a high-quality ultra-high-resolution 4K UHD telephoto lens, which supports up to 20× optical zoom, and the horizontal FOV at the wide-angle end reaches 60°.

FY61A:

Uses a high-quality ultra-high-resolution 4K UHD wide-angle lens, which supports up to 12× optical zoom, and the horizontal FOV at the wide-angle end reaches 71°.

FY61BA:

Uses a high-quality ultra-high-resolution 4K UHD wide-angle lens, which supports up to 12× optical zoom, and the horizontal FOV at the wide-angle end reaches 80.8°.

▼Low power sleep

When the power consumption is lower than 400mW, the camera automatically sleeps to protect the safety of the device and can be woken up at any time.

▼remote control

Camera control via RS232, RS485, network or USB.

▼local storage

Supports local storage function, enabling local recording on USB flash drive without NVR.

▼ HDMI 1.4b

Supports HDMI 1.4b and 3G-SDI interfaces, which can directly output uncompressed digital video.

▼low illumination

A high-S/N CMOS sensor and 3D noise reduction suppress image noise in low light, keeping pictures clean and clear with an image S/N ratio of up to 55dB.

▼Smart exposure

Equipped with intelligent exposure image processing technology, it can effectively solve the impact of light from projection, TV and other equipment on the picture.

▼Support NDI®|HX2[1]

It achieves low-latency, high-quality, frame-accurate audio and video transmission, as well as real-time discovery, interactive control, and flexible IP production and broadcasting working modes, which can excellently meet the needs of network video production.

▼Rich and complete interface

Supports HDMI 1.4b HD output and features a 3G-SDI interface. The 3G-SDI effective transmission distance is up to 150 meters (1080P30). HDMI or 3G-SDI, USB, and LAN can output 3 × of HD digital signals at the same time.

Remarks:

1. This feature is optional.

Specifications

▼Variants	FY60A	FY61A	FY61BA
Sensor	1/1.8 inch, CMOS, effective: 8.42 MP	1/2.5 inches, CMOS, effective: 8.51 MP	
lens focal length	20×, f=6.25mm~125mm, F1.58~F3.95	12×, f=4.4mm~52.8mm, F1.8~F2.6	12×, f=3.47mm~41.65mm, F1.84~F3.72
Horizontal FOV	60° ~3.5°	71° ~ 8.2°	80.8° ~ 7.5°
Vertical FOV	35.7° ~ 2.0°	42.7° ~ 4.5°	49.9° ~ 4.3°

▼Camera

Video Formats	**HDMI:** 4KP30, 4KP25, 4KP29.97, 1080P60, 1080P50, 1080I60, 1080I50, 1080P30, 1080P59.94, 1080I59.94, 1080P29.97, 720P60, 720P59.94; **3G-SDI:** 1080P60, 1080P50, 1080P30, 1080P29.97, 1080P59.94, 1080P25; 1080I60, 1080I50, 1080I59.94; 720P60, 720P59.94;
Scanning	Progressive
Digital Zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Automatic, indoor, outdoor, one-touch, manual
Backlight Comp.	Yes
Noise Reduction	3D DNR
S/N Ratio	⩾ 55dB
Pan Range	±170°
Tilt Range	-30° ~ +90°
Pan Speed	1.7° ~ 100° /s
Tilt Speed	1.7° ~ 69.9° /s
H/V Flip	Yes
Image Freeze	Yes
PoE Power	Yes
Presets	255
Preset Accuracy	0.1°

▼USB Features

Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 and above, Android needs a version containing UVC related drivers
Color / Compression	YUY2 / H.264 / MJPEG
Video Formats	YUY2: Maximum 1080P5 (USB2.0); H.264 AVC: Maximum 2160P30; MJPEG: Maximum 2160P30
USB Audio	Yes
USB Video Protocol	UVC 1.1~1.5
UVC PTZ Control	Yes

▼Network Features

Video Codecs	H.265 / H.264 / MJPEG
Video Streams	First stream, second stream
Main-Stream Resolution	3840×2160, 1920×1080, 1280×720 etc.
Substream Resolution	720×480, 320×240, etc.
Video Bit Rate	First channel: 32kbps~51200kbps Second channel: 32kbps~20480kbps
Bit Rate Control	VBR / CBR
Frequency	50Hz: 1fps~50fps, 60Hz: 1fps~60fps
Audio Codec	AAC
Audio Bit Rate	96Kbps, 128Kbps
Protocols	NDI®|HX2, SRT, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, Multicast, etc.

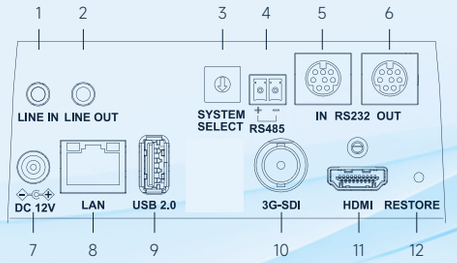
▼Inputs / Outputs

HD Output	1 × HDMI: 1.4b; 1 × 3G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE 424M standard
Network Port	1 RJ45: 10M/100M/1000M adaptive Ethernet
Audio I/O	1 Line In, 3.5mm audio interface; 1 Line Out, 3.5mm audio interface
USB interface	1 USB2.0, Type-A (software configurable as Host or Device)
Control I/O	1 RS232 In: 8-pin small DIN, maximum distance 30 meters, for VISCA protocol networking; 1 RS232 Out: 8-pin small DIN, maximum distance 30 meters, for VISCA protocol networking; 1 RS485: 2-core Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
RESTORE button	Yes
Power Input	JEITA type (DC IN 12V)

▼General

Input Voltage	DC 12V / PoE+ (802.3af)
Input Current	1.5A (maximum)
Operating Temp.	0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	13W (maximum)
Dimensions	142mm (W) × 169mm (D) × 164mm (H)
Net Weight	1.6kg

Connections



1 —— LINE IN
2 —— LINE OUT
3 —— SYSTEM SELECT
4 —— RS485
5 —— RS232 IN
6 —— RS232 OUT
7 —— DC 12V Power
8 —— LAN
9 —— USB2.0
10 —— 3G-SDI
11 —— HDMI
12 —— RESTORE

4K Professional PTZ Camera

FY701TA / FY701RA

Ultra HD quality | 12x optical zoom | OLED display | remote control | Full-featured USB interface

Designed specifically for corporate business meetings, remote teaching and other application scenarios, it uses a high-quality UHD CMOS image sensor to bring 4K (3840×2160) ultra-high-resolution high-quality images. It is paired with a wide-angle telephoto lens to clearly capture the scene content. Supports a full-featured USB interface, driver-free design, and plug-and-play, bringing a convenient and efficient meeting communication and collaboration experience.



Key Features

▼4K Ultra HD

Adopting a new generation of SONY 1/2.5-inch high-quality UHD CMOS sensor with a maximum of 8.51 MP, it achieves 4K (3840×2160) ultra-high-resolution high-quality images. And it is backward compatible with multiple resolutions such as 1080P and 720P.

▼12x optical zoom + 71° wide-angle lens

Uses a high-quality ultra-high-resolution 4K UHD wide-angle lens, which supports up to 12× optical zoom. It can also support 24× clear zoom at 1080P resolution, and the horizontal FOV at the wide-angle end reaches 71°.

▼Built-in OLED (only FY701RA support)

The fuselage comes with an OLED display that displays HDMI and SDI (SDI cannot display 4K) output resolution, IP address and other information in real time for easy query.

▼Support HDBaseT interface

FY701TA:

HDBaseT supports uncompressed 4K over standard CAT5e/6 cable and RJ45 connectors at distances up to 100m, with PoE power and additional control signal channels.

▼remote control

Multiple control methods, you can use RS232, RS485, network and USB to control the camera.

▼Rich and complete interface

FY701TA:

Simultaneous 4K output via HDBaseT, HDMI and LAN.

FY701RA:

Supports simultaneous output of three 4K ultra-clear video streams through USB, HDMI (or 3G-SDI) and network interfaces, making it applicable to a wider range of scenarios.

▼low illumination

A high-S/N CMOS sensor and 3D noise reduction suppress image noise in low light, keeping pictures clean and clear with an image S/N ratio of up to 55dB.

Specifications

▼Variants	FY701TA	FY701RA
Video Formats	**HDbaseT**: 4KP30, 4KP29.97, 4KP25, 1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080P25, 1080I60, 1080I59.94, 1080I50, 720P60, 720P59.94, 720P50, etc. 1 × HDMI: Version 1.4b	**3G-SDI**: 1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080I60, 1080I59.94, 720P60, 720P59.94, 720P50, etc.
HD Output		1 × HDMI: Version 1.4b 1 × 3G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE 424M standard
Multifunctional interface	1 × HDBaseT: RJ45 (video/audio/control/power)	-
USB interface	-	1 × USB2.0, Type-B (optional upgrade to USB3.0)

▼Camera	
Video Formats	HDMI: 4KP30, 4KP29.97, 4KP25, 1080P60, 1080P59.94, 1080P50, 1080P30, 1080P25, 1080P29.97, 1080I60, 1080I59.94, 1080I50, 720P60, 720P59.94, 720P50 etc.
Sensor	1/2.5 inches, CMOS, effective: 8.51 MP
Scanning	Progressive
lens focal length	12×, f=4.4mm~52.8mm, F1.8~F2.6
Digital Zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Automatic, indoor, outdoor, one-touch, manual
Backlight Comp.	Yes
Noise Reduction	3D DNR
S/N Ratio	≥ 55dB
Horizontal FOV	71° ~ 8.2°
Vertical FOV	42.7° ~ 4.5
Pan Range	±170°
Tilt Range	-30° ~ +30°
Pan Speed	1.7° ~ 76° /s
Tilt Speed	0.5° ~ 15° /s
H/V Flip	Yes
Image Freeze	Yes
PoE Power	Yes
Presets	255
Preset Accuracy	0.1°

▼Inputs / Outputs	
Network Port	1 × RJ45: 10M/100M/1000M adaptive Ethernet, supports PoE (only supported by FY701RA)
Audio I/O	1 × Line In/Mic In, 3.5mm audio interface
Control I/O	1 × RS232 In: 8-pin small DIN, maximum distance 30 meters, VISCA/Pelco-D/Pelco-P protocol; 1 × RS232 Out: 8-pin small DIN, maximum distance 30 meters, for VISCA protocol networking; 1 × RS485: 2-core Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
RESTORE button	Yes
Power Input	JEITA type (DC IN 12V)

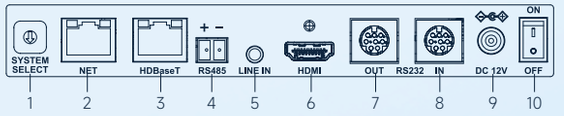
▼USB Features (FY701RA only)	
Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 or above, Android needs a version containing UVC related drivers
Color space/compression	YUY2 / H.264 / MJPEG
Video Formats	1 YUY2: Maximum 1080P30 (USB3.0); YUY2: Maximum 1080P5 (USB2.0); H.264 AVC: Maximum 2160P30; MJPEG: Maximum 2160P30
USB Audio	Yes
USB Video Protocol	UVC 1.1~1.5
UVC PTZ Control	Yes

▼Network Features	
Video Codecs	H.264 / H.265 / MJPEG
Video Streams	First stream, second stream
Main-Stream Resolution	3840×2160, 1920×1080, 1280×720, 1024×576, etc.
Substream Resolution	720×480, 320×240, etc.
Video Bit Rate	First channel: 32kbps~51200kbps Second channel: 32kbps~20480kbps
Bit Rate Control	VBR / CBR
Frequency	50Hz: 1fps~50fps, 60Hz: 1fps~60fps
Audio Codec	AAC
Audio Bit Rate	96Kbps, 128Kbps
Protocols	NDI®|HX2, SRT, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, multicast, etc.

▼General	
Input Voltage	DC 12V / PoE+ (802.3 at)
Input Current	1.5A (maximum)
Operating Temp.	-0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	12W (maximum)
Dimensions	238mm (W) × 132mm (D) × 166mm (H)
Net Weight	1.35kg

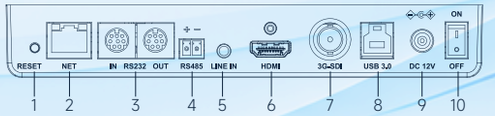
Connections

FY701TA:



1 —— SYSTEM SELECT
2 —— NET
3 —— HDBaseT
4 —— RS485
5 —— LINE IN
6 —— HDMI
7 —— RS232 OUT
8 —— RS232 IN
9 —— DC 12V Power
10 —— ON/OFF

FY701RA:



1 —— RESET
2 —— NET
3 —— RS232 IN/OUT
4 —— RS485
5 —— LINE IN
6 —— HDMI
7 —— 3G-SDI
8 —— USB 3.0
9 —— DC 12V Power
10 —— ON/OFF

HD Professional PTZ Camera

FY60XS / FY61XS / FY63XS

1080P Full HD | Speaker tracking | ISP image algorithm | low latency | Comprehensive I/O

It is specially designed for large-scale enterprises to carry out work reports, business negotiations and other scenarios. Uses a high-quality 1080P full HD telephoto lens with an optical zoom factor of up to 30 times, and can clearly see both far and near positions. Equipped with an AI speaker tracking algorithm that automatically follows the target to move and shoot without manual operation, bringing a professional and intelligent meeting experience.



FY60XS FY61XS FY63XS

Key Features

▼1080P Full HD

Using a 1/2.8-inch, high-quality HD CMOS sensor with 2.07 MP, it achieves high-quality images with a maximum resolution of 1920×1080.

▼High-quality optical zoom + HD lens

FY60XS:

Uses a high-quality ultra-high-resolution full-HD telephoto lens, supports up to 20× optical zoom, and has a horizontal FOV of 60.7° at the wide-angle end.

FY61XS:

Using a high-quality ultra-high-resolution full-HD wide-angle lens, the maximum horizontal FOV can reach 72.5°, and it also supports classic 12× optical zoom.

FY63XS:

Uses a high-quality ultra-high-resolution full-HD telephoto lens, which supports up to 30x optical zoom, and the horizontal FOV at the wide-angle end reaches 60.7°.

▼A new generation of ISP image processing algorithm

The new generation ISP image processing algorithm provides more complete white balance and automatic exposure functions, which significantly improves the camera's image output performance and makes the imaging effect even better. It is widely used in education lecture capture, distance education, video conferencing, live broadcast, broadcasting and other industries.

▼Auto focus technology

Using advanced focusing algorithms, the lens can focus quickly, accurately and stably.

▼Full-interface low-latency technology

All video output interfaces meet low-latency indicators, support 4 simultaneous outputs, and support 1080P60.

▼AI speaker tracking

The built-in self-developed ReID pedestrian re-identification technology can accurately identify the speaker's body shape, appearance, clothing and other information. When the speaker moves in the conference room, the camera automatically follows the camera stably to ensure that the speaker is always in the center of the picture. Even if there are multiple people interfering or the speaker walks out of the frame, he can be quickly captured and followed when he enters the frame again.

▼Support FULL NDI [2]

Full NDI outputs visually lossless NDI video over the network. Backward compatibility with NDI|HX2 reduces bandwidth and provides low-latency, high-quality H.265/H.264 video.

Remarks:

1. This feature is optional.

2. NDI is an optional feature. You can try it for free for 25 minutes each time you turn it on. An additional fee is required for the full experience.

Specifications

▼Variants	FY60XS	FY61XS	FY63XS
video signal system	1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50		
lens focal length	20×, f4.42mm ~ 88.5mm, F1.8 ~ F2.8	12×, f3.5mm ~ 42.3mm, F1.8 ~ F2.8	30×, f4.42mm ~ 132.6mm, F1.8 ~ F2.8
Horizontal FOV	60.7° ~ 3.36°	72.5° ~ 6.9°	60.7° ~ 2.28°
Vertical FOV	34.1° ~ 1.89°	44.8° ~ 3.9°	34.1° ~ 1.28°
HD Output	1 × HDMI: version 1.3; 1 × 3G-SDI: BNC type, 800mVp-p, 75Ω, following SMPTE 424M standard		
Protocols	NDI|HX2, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, multicast, SRT, etc.; supports FULL NDI		
Input Voltage	DC 12V, PoE+ (802.3at)		

▼Camera

Sensor type	1/2.8 inches, CMOS, effective: 2.07 MP
Scanning	Progressive
Digital Zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor/Outdoor, One-Push, Manual, Color Temp.
Backlight Comp.	Yes
Noise Reduction	2D&3D digital noise reduction
S/N Ratio	≥ 55dB
Pan Range	±170°
Tilt Range	-30° ~ +90°
Pan Speed	1.7° ~ 100° /s
Tilt Speed	1.7° ~ 69.9° /s
H/V Flip	Yes
Image Freeze	Yes
Presets	255
Preset Accuracy	0.1°

▼Audio

Mic Array	Dual-mic array, 100Hz–16KHz response
Analog audio input/output	Support 3.5mm Line-In; support 3.5mm Line-Out
Digital audio output	Support HDMI, USB, LAN, SDI and other audio outputs

▼Inputs / Outputs

Audio I/O	1 Line In, 3.5mm audio interface; 1 Line Out, 3.5mm audio interface
Control I/O	1 RS232 In: 8-pin small DIN, maximum distance 30 meters, VISCA/ Pelco-D/Pelco-P protocol; 1 RS232 Out: 8-pin small DIN, maximum distance 30 meters, for VISCA protocol networking; 1 RS485: 2-core Phoenix port, maximum distance: 1200 meters, VISCA/ Pelco-D/Pelco-P protocol
Power Input	JEITA type (DC IN 12V)

▼Network Features

Video Codecs	H.264 / MJPEG
Video Streams	First stream, second stream
Main-Stream Resolution	1920×1080, 1280×720, 1024×576 etc.
Substream Resolution	1280×720, 1024×576, 720×576 etc.
Video Bit Rate	32kbps~20480kbps
Bit Rate Control	VBR / CBR
Frame Rate	1fps ~ 60fps
Audio Codec	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps

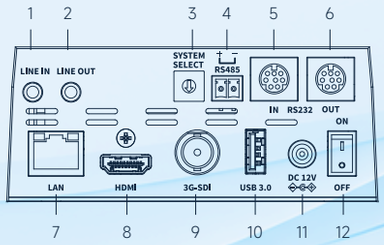
▼USB Features

Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 and above, Android needs a version containing UVC related drivers
Color / Compression	YUY2 / H.264 / MJPEG
Video Formats	Supports multiple video formats with different frame rates and resolutions, up to 1080P60 YUY2 output
USB Audio	32K sampling rate, support UAC2.0
USB Video Protocol	UVC 1.1~1.5
UVC PTZ Control	Yes

▼General

Input Current	1.5 A (maximum)
Operating Temp.	0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	18W (maximum)
Dimensions	142mm (W) × 169mm (D) × 175mm (H)
Net Weight	1.5kg

Connections



1 —— LINE IN
2 —— LINE OUT
3 —— SYSTEM SELECT
4 —— RS485
5 —— RS232 IN
6 —— RS232 OUT
7 —— LAN
8 —— HDMI
9 —— 3G-SDI
10 —— USB3.0
11 —— DC 12V Power
12 —— ON/OFF

HD Professional PTZ Camera

FY60D / FY61D / FY63D

1080P Full HD | Speaker tracking | ISP image algorithm | low latency | Comprehensive I/O

It is specially designed for remote business meeting scenarios of medium and large enterprises. Uses high-quality HD CMOS sensors and features a wide-angle and ultra-long optical zoom lens. When the mechanical pan/tilt rotates in a wide range, the shooting field of view is broader and clearer. It meets the needs of professional-level meeting scenes such as group meetings, administrative meetings, teaching lecture capture, etc., and brings more flexible adaptation and a higher-quality meeting experience.



FY60D FY61D FY63D

Key Features

▼1080P Full HD

Using a 1/2.8-inch, 2.07 MP high-quality HD CMOS sensor, it achieves high-quality images with a maximum high resolution of 1920x1080, and the output frame rate can reach 60 frames at 1080P.

▼High-quality optical zoom + HD lens

FY60D:

Using a high-quality ultra-high-resolution full HD lens, the horizontal FOV can reach 60.7°, and it supports up to 20x optical zoom and 16x digital zoom.

FY61D:

Using a high-quality ultra-high-resolution full HD lens, the horizontal FOV can reach 72.5°, and it supports up to 12x optical zoom and 16x digital zoom.

FY63D:

Using a high-quality ultra-high-resolution full HD lens, the horizontal FOV can reach 60.7°, and it supports up to 30x optical zoom and 8x digital zoom.

▼AI speaker tracking

The built-in self-developed ReID pedestrian re-identification technology can accurately identify the speaker's body shape, appearance, clothing and other information. When the speaker moves in the conference room, the camera automatically follows the camera stably to ensure that the speaker is always in the center of the picture. Even if there are multiple people interfering or the speaker walks out of the frame, he can be quickly captured and followed when he enters the frame again.

▼low illumination

The ultra-high S/N ratio CMOS image sensor can effectively reduce image noise under low illumination. It also applies 2D and 3D noise reduction algorithms to significantly reduce image noise. Even under low illumination conditions, the image is still clean and clear, and the image S/N ratio is as high as over 55dB.

▼AAC audio encoding

Supports AAC audio encoding, with better sound quality and smaller bandwidth usage.

▼Various control methods

The camera can be remotely controlled using RS232, RS485, network and USB, making it suitable for more diverse scenarios.

▼Rich video interface

Supports HDMI and 3G-SDI HD output interfaces. HDMI, 3G-SDI, USB3.0, and LAN can output 4 channels of HD digital signals at the same time.

▼local storage

Supports local storage function, enabling direct local recording to USB flash drive without NVR.

Specifications

▼Variants	FY60D	FY61D	FY63D
Optical zoom	20x	12×	30×
Digital Zoom	16×	16×	8×
lens focal length	f4.42mm ~ 88.5mm, F1.8 ~ F2.8	f4.1mm ~ 49.2mm, F1.8 ~ F2.68	f4.42mm ~ 132.6mm, F1.8 ~ F2.8
Horizontal FOV	60.7° ~ 3.36°	72.5° ~ 6.9°	60.7° ~ 2.28°
Vertical FOV	34.1° ~ 1.89°	44.8° ~ 3.9°	34.1° ~ 1.28°

▼Camera

Video Formats	1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P50
Sensor	1/2.8 inch, CMOS, effective: 2.07 MP
Scanning	Progressive
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, Manual, One-Push, CCT
Backlight Comp.	Yes
Noise Reduction	2D&3D digital noise reduction
S/N Ratio	⩾ 55dB
Pan Range	±170°
Tilt Range	-30° ~ +90°
Pan Speed	1.7° ~ 100° /s
Tilt Speed	1.7° ~ 69.9° /s
H/V Flip	Yes
Image Freeze	Yes
PoE Power	Yes
local storage	Yes
Presets	255
Preset Accuracy	0.1°

▼Inputs / Outputs

HD Output	1 × HDMI 1 × 3G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE 424M standard
Network Port	1 × RJ45: 10M/100M adaptive Ethernet port
Audio I/O	1 × Line In, 3.5mm audio interface 1 × Line Out, 3.5mm audio interface
Control I/O	1 × RS232 In: 8-pin small DIN, maximum distance: 30 meters, VISCA/Pelco-D/Pelco-P protocol 1 × RS232 Out: 8-pin small DIN, maximum distance: 30 meters, 1 channel for VISCA protocol networking, RS485: 2-core Phoenix port, maximum distance: 1200 meters , VISCA/Pelco-D/Pelco-P protocol
Power Input	JEITA type (DC IN 12V)

▼Network Features

Video Codecs	H.264 / MJPEG
Video Streams	First stream, second stream
Main-Stream Resolution	1920×1080, 1280×720, 1024×576 etc.
Substream Resolution	1280×720, 1024×576, 720x480 etc.
Video Bit Rate	32Kbps ~ 102400Kbps
Bit Rate Control	VBR / CBR
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio Codec	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support network protocols	NDI®|HX2, SRT, TCP/IP, HTTP, RTSP, RTMP(S), Onvif, DHCP, multicast, etc.

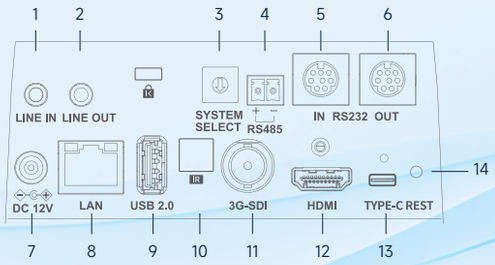
▼USB Features

Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 and above, Android needs a version containing UVC related drivers
Color / Compression	YUY2 / H.264 / MJPEG
Video Formats	YUY2: Maximum 1080P30 H.264: Maximum 1080P60 MJPEG: Maximum 1080P60
USB Audio	Yes
USB Video Protocol	UVC 1.1~1.5
UVC PTZ Control	Yes

▼General

Input Voltage	DC 12V, PoE (802.3af)
Input Current	1.0A (maximum)
Operating Temp.	0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	12W (maximum)
Dimensions (W x Dx H)	169 x 142 x 164mm
Net Weight	1.35Kg

Connections



1 —— LINE IN
2 —— LINE OUT
3 —— SYSTEM SELECT
4 —— RS485
5 —— RS232 IN
6 —— RS232 OUT
7 —— DC 12V Power
8 —— LAN
9 —— USB2.0
10 —— IR
11 —— 3G-SDI
12 —— HDMI
13 —— USB3.0
14 —— REST

4K Dual-Lens AI Tracking Camera

FY800I2

Dual-Lens | Ultra HD quality | AI intelligent tracking | Built-in Mic | Comprehensive I/O

Advanced video recording equipment specially designed for executive-level meetings, educational lecture capture and other scenarios. It has built-in 4K-level dual lenses and clear picture quality. Equipped with AI automatic frame selection, voice tracking and intelligent guidance algorithms, which can accurately capture images without manual operation, and automatically switch between panoramic and close-up images to meet the needs of diverse scenes.



Key Features

▼ Integrated design

One machine adopts a panoramic + close-up dual lens design, and outputs multiple panoramic and close-up video streams at the same time, which can capture more details during the teaching interaction process.

▼4K ultra-clear image quality

Both panoramic and close-up shots use a 1/2.5-inch 4K UHD CMOS image sensor to achieve 4K (3840×2160) ultra-high-resolution high-quality images, and are backward compatible with multiple resolutions such as 1080P and 720P.

▼Large wide angle long zoom

The panoramic camera supports optional 48° and 107° wide-angle fixed-focus lenses to complete panoramic shooting of teachers and students; the close-up camera uses a 71° wide-angle 12x optical zoom lens to clearly focus on close-up shots of teachers and students.

▼AI Assistance

Two modes: teaching and meeting tracking. Teaching mode follows teachers or students smoothly without auxiliary positioning cameras or tracking hosts. Meeting mode adjusts framing as participants move and uses sound localization to give the active speaker a close-up.

▼Built-in Mic [2]

The built-in microphone array can pick up sounds in all directions, with a pickup distance of up to 6 meters. The unique noise suppression algorithm allows perfect speech presentation.

▼Gravity Sensor [1]

Supports automatic image flipping function to facilitate project installation and use.

▼Rich and complete interface

Supports HDMI 1.4b HD output, equipped with 3G-SDI interface, and the effective transmission distance is up to 150 meters (1080P30). HDMI, 3G-SDI, USB3.0, and LAN can output 4 channels of HD digital signals at the same time.

Remarks:

1. This feature is optional.
2. Maximum pickup range is based on manufacturer lab tests; actual range varies by environment.

Specifications

▼Close-up camera

Video resolution	**HDMI:** 4KP30, 4KP25, 4KP29.97, 1080P30, 1080P25; SDI: 1080P30, 1080P25; 1/2.5 inches, CMOS, effective: 8.51 MP
Sensor	
Scanning	Progressive
lens focal length	12×, f=4.4mm~52.8mm, F1.8~F2.6
Digital Zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Backlight Comp.	Yes
Noise Reduction	3D DNR
S/N Ratio	≥ 55dB
Horizontal FOV	71° ~ 8.2°
Vertical FOV	42.7° ~ 4.5°
Pan Range	±170°
Tilt Range	±30°
Pan Speed	1.61° ~ 75.56° /s
Tilt Speed	0.44° ~ 15° /s
H/V Flip	Yes
Image Freeze	Yes
Presets	255
Preset Accuracy	0.1°

▼panoramic camera

Video Formats	**HDMI:** 4KP30, 4KP25, 4KP29.97, 1080P30, 1080P25; **SDI:** 1080P30, 1080P25;
Sensor type	1/2.5 inches, CMOS, effective: 8.51 MP
Scanning	Progressive
Lens mount	M12 lens mount
Lens type one	Focal length: f=8.0mm, horizontal FOV: 48°
Lens type two	Focal length: f=1.97mm, horizontal FOV: 107°
Min. Illumination	0.5 Lux @ (F1.8, AGC ON)
electronic shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Noise Reduction	3D DNR
Backlight Comp.	Yes
Image Freeze	Yes
H/V Flip	Yes

▼Inputs / Outputs

HD Output	1 HDMI: Version 1.4b 1 3G-SDI: BNC type, 800mVp-p, 75Ω, following SMPTE 424M standard
Network Port	1 RJ45:10M/100M/1000M adaptive Ethernet supports PoE+
Audio I/O	1 Line In, 3.5mm audio interface
USB interface	1 USB 3.0, Type-B socket; 1 USB2.0, Type-A socket
Control I/O	1 RS232 In: 8-pin small DIN, maximum distance 30 meters, VISCA/Pelco-D/Pelco-P protocol; 1 RS232 Out: 8-pin small DIN, maximum distance 30 meters, for VISCA protocol networking; 1 RS485: 2-core Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
Power Input	1 DC-005/Φ2.0 type (DC IN 12V)

▼Network Features

Video Codecs	H.265 / H.264 / MJPEG
Video Streams	Streams 1, 2, 3 and 4
Stream 1/2 Resolution	3840×2160, 1920×1080, 1280×720, 1024×576, etc.
Stream 3/4 Resolution	720×480, 320×240, etc.
Video Bit Rate	32kbps~51200kbps
Bit Rate Control	VBR / CBR
Frequency	50Hz: 1fps~25fps, 60Hz: 1fps~30fps
Audio Codec	AAC、G711A
Audio Bit Rate	48Kbps，64Kbps，96Kbps，128Kbps
Protocols	NDI®|HX2, SRT, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, GB/T 28181. Multicast, etc.

▼USB Features

Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 or above, Android needs a version containing UVC related drivers
Color / Compression	YUY2 / H.264 / MJPEG
Video Formats	YUY2: Maximum 1080P30; H.264 AVC: Maximum 2160P30; MJPEG: Maximum 2160P30
USB Audio	Yes
USB Video Protocol	UVC 1.1
UVC PTZ Control	Yes

▼General

Input Voltage	DC 12V/PoE+ (802.3at)
Input Current	2A (maximum)
Operating Temp.	-10° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	18W (maximum)
Dimensions	200mm (W) × 177mm (D) × 165mm (H)
Net Weight	1.76kg

Connections



1 —— NET
2 —— USB2.0
3 —— RS232 IN
4 —— RS232 OUT
5 —— RS485
6 —— USB3.0
7 —— LINE IN
8 —— HDMI
9 —— 3G-SDI
10 —— DC 12V Power
11 —— ON/OFF

UHD AI Tracking Camera

FY1801K

Ultra HD quality | Smart Blackboard | Intelligent broadcast | Support PoC | Support PoE

Intelligent teaching tracking cameras specially designed for scenarios such as hybrid teaching, interactive teaching, and educational lecture capture. There are two models: teacher cameras and student cameras. They are installed on the front and rear walls of the classroom respectively. They are equipped with 4K UHD CMOS image sensors to present the entire teaching picture in ultra-high definition. They have built-in image recognition and algorithms such as intelligent tracking, intelligent guidance, and smart blackboard writing to present rich teaching interactive pictures and bring a vivid teaching experience.



Key Features

▼ 4K Ultra HD quality

Uses a 1/2.8-inch UHD CMOS image sensor, which can provide up to 4KP30/25 image encoding output. It is also backward compatible with 1080p, 720p and other resolutions, and the image quality is clear and delicate.

▼Dual camera design

The teacher camera uses a 42° wide-angle autofocus lens for clear classroom coverage. The student camera uses a 95° low-distortion lens to include students across the classroom.

▼Three interface output

Supports 3G-SDI interface, with effective transmission distance up to 150 meters (1080P25). SDI, network, USB, three channels can be output at the same time.

▼Supports interleaving mode

It enables the simultaneous output of panoramic and close-up signals from a single camera and a single SDI interface.

▼Intelligent broadcast

Built-in image recognition, intelligent tracking and intelligent guidance algorithms can automatically identify teacher-student interaction behaviors, automatically switch between teacher panorama, teacher close-up, blackboard close-up, student panorama and student close-up, without the need for a manual guidance station, and accurately present the teaching interaction picture.

▼Smart Blackboard

It has a built-in smart blackboard writing algorithm. When the teacher writes on the blackboard, his body and arms will block part of the blackboard writing screen. The camera automatically starts the blackboard writing algorithm to generate an unobstructed blackboard writing screen or a blackboard writing screen suspended above the teacher's figure to facilitate students' learning and recording.

▼Support PoC and PoE

Supports PoC (Power Over Cable) and PoE (Power Over Ethemet) one-line communication functions, integrating power, video, audio, and control four lines into one.

Specifications

▼Camera

Sensor	1/2.8 inch, CMOS, effective: 8.46 MP
Scanning method Lens mount type	Progressive M12
Lens 1 (teacher camera)	Focal length: f=7.2mm, horizontal FOV: 42°
Lens 2 (student camera)	Focal length: f=2.88mm, horizontal FOV: 95°
Digital Zoom	8×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
electronic shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Backlight Comp.	Yes
Noise Reduction	2D&3D digital noise reduction
EPTZ	Yes
auto focus	Teacher camera support
Powered by PoC	Yes
PoE Power	Yes
Select Lens 1/2	Corresponds to teacher/student tracking mode respectively

▼Inputs / Outputs

HD Output	1 × 3G-SDI: BNC type, 800mVp-p, 75Ω, comply with SMPTE 424M standard, support PoC
Network Port	1 × RJ45:10M/100M/1000M adaptive Ethernet, support PoE
USB interface	1 × USB 2.0, Type A socket
Audio I/O	1 × Line In, 3-core Phoenix port
control interface	1 × RS485: 2-core Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
Power Input	DC005 type (DC12V)

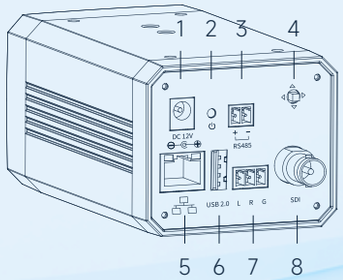
▼Network Features

Video Codecs	H.265 / H.264 / MJPEG
Video Streams	The first stream, the second stream, the third stream, the fourth stream
Main-Stream Resolution	1920×1080, 1280×720, 1024×576, etc.
Substream Resolution	3840×2160, 1920×1080, 1280×720, etc.
Third stream resolution	1920×1080, 1280×720, 1024×576, etc.
Fourth stream resolution	1024×576, 960×540, 720×576 (50Hz), 720×480 (60Hz), 720×480, etc.
Video Bit Rate	32kbps~16384kbps
Bit Rate Control	VBR / CBR
Frequency	1fps~30fps
Audio Codec	AAC、G711A
Audio Bit Rate	96Kbps，128Kbps，256Kbps
Protocols	SRT, TCP/IP, HTTP, RTSP, RTMP(S), Onvif, DHCP, multicast, etc.

▼General

Input Voltage	DC 12V / PoC / PoE (802.3af)
Input Current	1A (maximum)
Operating Temp.	-10° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	12W (maximum)
Dimensions	72mm (W) × 60mm (D) × 130mm (H)
Net Weight	0.37kg

Connections



1 —— DC 12V Power
2 —— LED
3 —— RS485
4 —— control switch
5 —— NET
6 —— USB2.0
7 —— LRG
8 —— SDI

UHD AI Tracking Camera

FY1811K

Ultra HD quality | Intelligent teaching tracking | Intelligent broadcast | Smart Blackboard | Support PoE

The intelligent teaching tracking camera is specially designed for online and offline hybrid teaching, distance teaching, educational lecture capture, and other scenarios. It is available in teacher and student models. It is mini and easy to install. Equipped with a 4K UHD CMOS image sensor to present the entire teaching picture in ultra-clear. It has built-in image recognition and algorithms such as intelligent tracking, intelligent guidance, and smart blackboard writing to accurately present panoramic and close-up pictures, creating an intelligent interactive teaching experience.



Key Features

▼ 4K Ultra HD quality

Uses a 1/2.7-inch UHD CMOS image sensor and can provide up to 4KP30/25 image encoding output. It is also backward compatible with 1080p, 720p and other resolutions, and the image quality is clear and delicate.

▼Dual camera design

The teacher camera uses a 44° wide-angle fixed-focus lens, which supports auto-focus, and the teacher can quickly focus and shoot even if he moves; the student camera uses a 95° low-distortion wide-angle lens to see wider and easily accommodate students in the entire classroom.

▼Intelligent teaching tracking

Built-in image recognition and tracking algorithm, it can automatically track and shoot teachers or students without any auxiliary positioning camera or tracking host, and the picture is smooth.

▼Intelligent broadcast

Built-in image recognition, intelligent tracking and intelligent guidance algorithms can automatically identify teacher-student interaction behaviors, automatically switch between teacher panorama, teacher close-up, blackboard close-up, student panorama and student close-up, without the need for a manual guidance station, and accurately present the teaching interaction picture.

▼Smart Blackboard

It has a built-in smart blackboard writing algorithm. When the teacher writes on the blackboard, his body and arms will block part of the blackboard writing screen. The camera automatically starts the blackboard writing algorithm to generate an unobstructed blackboard writing screen or a blackboard writing screen suspended above the teacher's figure to facilitate students' learning and recording.

▼Support PoE

Supports PoE (Power Over Ethernet) one-line communication function, power, video, audio, and control four lines in one.

Specifications

▼Camera

Sensor	1/2.7 inches, CMOS, effective: 8.29 MP
Scanning method Lens mount type	Progressive M12
Lens 1 (teacher camera)	Focal length: f=7.2mm, horizontal FOV: 44°
Lens 2 (student camera)	Focal length: f=2.88mm, horizontal FOV: 95°
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
electronic shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Backlight Comp.	Yes
Noise Reduction	2D&3D digital noise reduction
EPTZ	Yes
auto focus	Teacher camera support
PoE Power	Yes
Select Lens 1/2	Corresponds to teacher/student tracking mode respectively

▼Network Features

Video Codecs	H.265 / H.264 / MJPEG
Video Streams	The first stream, the second stream, the third stream, the fourth stream
Main-Stream Resolution	1920×1080, 1280×720, 1024×576 etc.
Substream Resolution	3840×2160, 1920×1080, 1280×720 etc.
Third stream resolution	1920×1080, 1280×720, 1024×576 etc.
Fourth stream resolution	1024×576, 960×540, 720×576(50Hz), 720×480 (60Hz), 720×480 etc.
Video Bit Rate	32kbps~16384kbps
Bit Rate Control	VBR / CBR
Frequency	1~30fps
Audio Codec	AAC、G711A
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, GB/T 28181, multicast, etc.

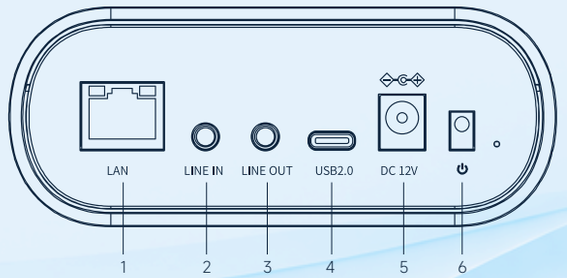
▼Inputs / Outputs

Network Port	1 × RJ45: 10M/100M adaptive Ethernet, support PoE
USB interface	1 × USB 2.0, Type C socket
Audio I/O	1 × Line In, core Phoenix mouth
Power Input	DC005 type (DC12V)
indicator light	Power LED
remote control reception	Infrared remote control (optional function)

▼General

Input Voltage	DC 12V / PoC / POE (802.3af)
Input Current	0.5A (maximum)
Operating Temp.	0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	6W (maximum)
Dimensions	110mm (W) × 96mm (D) × 44mm (H)
Net Weight	0.2kg

Connections



1 —— LAN
2 —— LINE IN
3 —— LINE OUT
4 —— USB 2.0
5 —— DC 12V Power
6 —— PowerLED

UHD Dual-Lens AI Tracking Camera

FY200I

Dual-Lens | Ultra HD quality | Smart tracking | Intelligent broadcast | PoE line

This advanced video recording equipment is specially designed for corporate business meetings, remote training, remote teaching, educational lecture capture, etc. Uses a panoramic + close-up dual-lens design, which can clearly capture the entire space and accurately capture target close-ups. Equipped with technical algorithms such as participant frame selection, intelligent tracking, and intelligent guidance to create a real and smooth on-site experience, greatly improve communication efficiency, and meet the application needs of different scenarios.



Key Features

▼ One machine, two mirrors, integrated design

Integrated panoramic and close-up lenses provide 4.93 MP and 8.29 MP effective resolution respectively, combining full classroom coverage with detailed close-ups.

▼ Ultra-clear experience, double excitement

Teacher and student camera models are available. The teacher model uses a 1/2.7-inch HD CMOS panoramic sensor and a 1/2.7-inch 4K CMOS close-up sensor, with 43° and 25° viewing angles respectively. The student model offers 110° panoramic and 43° close-up views for clear, detailed images.

▼AI tracking and intelligent teaching

The camera has built-in leading image recognition and tracking algorithms. It can track and shoot teachers or students without any auxiliary camera positioning or tracking host, without missing any teaching details. It can simultaneously output multiple channels of panoramic images up to 5M and 4K close-up images.

▼Intelligent broadcasting and multi-machine collaboration

Supports external switchers and built-in auto-switching algorithms for different recording systems and interactive endpoints. With teacher and student cameras, the multi-camera program feed outputs over LAN or USB.

▼Micro PTZ with wider field of view

Equipped with a newly designed micro-mechanical pan/tilt, the horizontal rotation range can reach ±40°, and the shooting range is wider; it also supports electronic pan/tilt. The combination of the two makes shooting and framing more accurate and smooth.

▼Multiple interface output

Supports multiple video output interfaces such as PoE, USB 3.0 and 3G-SDI[1], and can be quickly connected to lecture capture hosts, large-screen OPS and other devices, effectively expanding application scenarios.

Remarks:

1. This feature is optional.

Specifications

▼Close-up camera

Sensor	1/2.7 inches, CMOS, effective: 8.29 MP
Scanning method Lens mount type	Progressive M12
Close-up of students	f=7.37mm; H-FOV: 43°
Teacher close-up	f=12.49mm; H-FOV: 25°
Digital Zoom	2×
Min. Illumination	0.5 Lux
electronic shutter	1/30s□1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Noise Reduction	2D&3D digital noise reduction
Backlight Compensation	Yes
Pan Range	±40°
Tilt Range	+5°□-30°
Maximum rotation speed	Student: pan 60°/s, tilt 30°/s. Teacher: pan 30°/s, tilt 30°/s.
H/V Flip	Yes
Image Freeze	Yes
Presets	255
Preset Accuracy	0.5°

▼panoramic camera

Sensor	1/2.7 inches, CMOS, effective: 4.93 MP
Scanning	Progressive
Lens mount type	M12
Panoramic shot of students	f=2.2mm; H-FOV: 110°
Panoramic shot of teachers	f=7.37mm; H-FOV: 43°
Min. Illumination	0.5 Lux
electronic shutter	1/30s□1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Noise Reduction	2D&3D digital noise reduction
Backlight Compensation	Yes
Tilt Range	+0°□-24°
H/V Flip	Yes
Image Freeze	Yes

▼Audio Features

Analog audio input	Support 1 route input
Analog audio output	Support 1 route output
digital audio interface	Support 1 channel USB audio input and output; support 1 channel SDI audio output ; Supports 1 channel of network audio input and output, supports audio clock synchronization based on 1588

▼USB Features

Operating Systems	Windows® 7 (only supports 1080p and below), Windows 8.1, Windows 10 or higher; macOS ™ 10.10 or higher; Google ™ Chromebook ™ Version 29.0.1547.70 or higher; Linux (requires UVC support)
Hardware requirements	2.4 GHz Intel® Core 2 Duo processor or higher; 2 GB RAM or higher; USB 3.0 or USB 2.0 interface
Color / Compression	YUY2 / MJPEG / H.264
Video Formats	Up to 4K; multiple frame rates and resolutions
USB Video Protocol	UVC 1.1
USB Audio	Maximum 48K sampling rate, supports UAC1.0
UVC PTZ Control	Yes

▼Network Features

Video Codecs	H.265 / H.264 / MJPEG
Video Streams	Streams 1, 2, 3 and 4
Close-Up Main Resolution	3840×2160, 1920×1080, 1280×720 etc.
Panoramic Main Resolution	2880×1620, 1920×1080, 1280×720 etc.
Close-Up Sub Resolution	1920×1080, 1280×720, 1024×576, 960×540, etc.
Panoramic Sub Resolution	1920×1080, 1280×720, 1024×576, 960×540, etc.
Video Bit Rate	32Kbps ~ 16384Kbps
Bit Rate Control	VBR / CBR
Frame Rate	25/30fps default 25fps
Audio Codec	AAC/G711A
Audio Bit Rate	96Kbps、128Kbps、256Kbps
Protocols	TCP/IP, HTTP, HTTPS, NDI, SRT, RTSP, RTMP, Onvif, DHCP, GB/T 28181, multicast, etc.

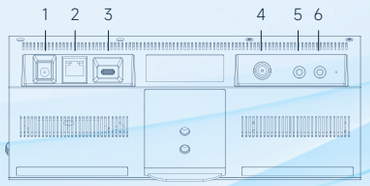
▼Inputs / Outputs

USB interface	1 × USB 3.0: TYPE-C
HD interface	1 × SDI[1], supports up to 1080P30, supports PoC
Network Port	Support 10M/100M adaptive, support PoE power supply (802.3af), support NDI protocol
Linear input interface	1 ⊻ine In, 3.5mm audio input interface
Linear output interface	1 ⊻ine out, 3.5mm audio output interface
Power Input	DC005 type (DC 12V)
reset button	RESET
indicator light	POWER blue, STANDBY green

▼General

Input Voltage	DC 12V/PoE (802.3af)/ PoC[1]
Input Current	Maximum 1A
Operating Temp.	0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	Maximum 12W
mean time between failures	30,000 hours
Dimensions	242mm (W) × 86mm (D) × 70mm (H)
Net Weight	0.62kg

Connections



1 —— DC Power
2 —— LAN
3 —— USB
4 —— SDI [1]
5 —— LINE IN
6 —— LINE OUT

4K UHD Wireless Camera

FY60WB

Ultra HD quality | Wireless image transmission | AI intelligent tracking | Built-in display | remote control

Designed for sports, live performances and teaching, this wireless camera uses a 1/1.8-inch 4K UHD CMOS sensor for clear, smooth 4K@60fps output. A high-capacity battery and wireless module support flexible indoor and outdoor deployment. An optional 4K wireless receiver enables stable long-range transmission without cabling.



Key Features

▼ 4K Ultra HD

Using a high-quality UHD CMOS sensor, it achieves 4K (3840×2160) ultra-high-resolution high-quality images. And it is backward compatible with multiple resolutions such as 1080P and 720P.

▼super telephoto lens

Uses a 20× ultra-long optical zoom lens; it also supports 16× digital zoom, supports night vision mode, and the infrared filter can be automatically switched.

▼AI speaker tracking

The built-in self-developed ReID pedestrian re-identification technology can accurately identify the speaker's body shape, appearance, clothing and other information. When the speaker moves in the conference room, the camera automatically follows the camera stably to ensure that the speaker is always in the center of the picture. Even if there are multiple people interfering or the speaker walks out of the frame, he can be quickly captured and followed when he enters the frame again.

▼ HDMI 1.4b

Supports HDMI1.4b specification and can directly output uncompressed 4K original video.

▼wireless transmission

Stable and reliable wireless transmission, 2×2 MIMO and transmitter beam forming technology, with a maximum transmission rate of 300Mbps, strong penetration, and a transmission distance of up to 200 meters. It has automatic search and intelligent configuration functions and high transmission efficiency.

▼remote control

Multiple control methods, supporting wireless, RS485 serial port, network and USB, to control the camera.

▼H.264 Slice encoding support

The output H.264 stream supports Slice encoding mode, which is suitable for high-end USB conference video applications.

▼Built-in OLED display

Can display output resolution, battery power, wireless signal strength, camera status, IP address and other information.

▼Standard lens hood

The standard lens hood is used to suppress image halation and prevent stray light from entering the lens. It is especially suitable for wireless shooting in outdoor sunlight environments.

▼low illumination

The high S/N ratio CMOS image sensor can effectively reduce image noise under low illumination conditions. At the same time, 2D and 3D noise reduction algorithms are applied to significantly reduce image noise, and the image can still be kept clean and clear even under ultra-low illumination conditions.

▼Built-in large-capacity lithium battery

Built-in 9450mAh ultra-large-capacity lithium battery, continuous energy, low power consumption design, 6 hours of long-lasting battery life.

▼USB Type-C interface

Compatible with USB3.0 and USB2.0. Supports UVC1.1 and UAC1.0 protocols, and supports video original image and encoded image output.

▼4K wireless stable transmission[1]

It can be optionally paired with the 4K wireless camera receiver box B10WT to form a wireless transmission solution with 1-8 cameras. No wiring is required, and the camera position layout can be easily completed. Equipped with 2 × 2 MIMO and transmitter beam forming technology, the maximum transmission rate is 300Mbps and the transmission distance is up to 200 meters.

▼Two power supply methods

Supports built-in battery power supply and 12V power adapter.

Specifications

▼Camera

Sensor	1/1.8 inch, CMOS, effective: 8.42 MP
Lens	20×, f = 6.25mm ~ 125mm, F1.58 ~ F3.95
Video Formats	4KP30, 4KP25; 1080P30, 1080P25
Scanning	Progressive
digital zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Backlight Comp.	Yes
Noise Reduction	2D&3D digital noise reduction
S/N Ratio	≥ 55dB
field of view	H-FOV: 60°–3.5°; V-FOV: 35.7°–2.0°
PTZ rotation range and speed	Pan: ±170°, 2.7°–35.7°/s; Tilt: -30°–+90°, 2.7°–31.5°/s
H/V Flip	Yes
Automatic ICR (infrared filter automatic switching)	Yes
Night vision mode	Yes
Image Freeze	Yes
Presets	255
Preset Accuracy	0.1°
Lens hood	Yes

▼USB Features

Operating Systems	Windows 7, Windows 8, Windows 10, Windows 11, Mac OS X, Linux, Android
Color / Compression	YUY2 / MJPEG / H.264
Video Formats	YUY2 (isochronous mode): Maximum 1440P30; MJPEG: Maximum 2160P30, H.264 AVC: Maximum 2160P30
USB Audio	UAC 1.0
USB video	UVC 1.1

▼Inputs / Outputs

USB interface	1 × USB 3.0, Type-C socket
HD Output	1 × HDMI 1.4b
Network Port	1 × RJ45: 10M/100M adaptive Ethernet port
Audio I/O	1 × LINE IN, 3.5mm audio interface 2 × built-in microphone
Control I/O	1 × RS485 In (optional): 3-core Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol
Power Input	JEITA type (DC IN 12V)
reset button	Pinhole RESET
remote control reception	Support infrared remote control
power switch	Button
Display	Can display output resolution, battery power, wireless signal strength, camera status, IP address and other information

▼Network Features

Video Codecs	H.265 / H.264 / MJEPG
Video Streams	First stream, second stream 3840×2160, 1920×1080, 1280×720, etc.
Main-Stream Resolution	1920×1080, 1280×720, 1024×576, 720×576 etc.
Substream Resolution	32kbps~20480kbps
Video Bit Rate	VBR / CBR
Bit Rate Control	50Hz: 1fps~25fps, 60Hz:1fps~30fps
Frequency	AAC
Audio Codec	96Kbps, 128Kbps, 256Kbps
Audio Bit Rate	Support protocols TCP/IP, HTTP, RTSP, NDI, RTMP/RTMPS, Onvif, DHCP, SRT, multicast, etc.
Protocols	

▼Wireless features

Wireless method	5.15~5.35GHz□5.425~5.725GHz and 5.745~5.850GHz
Transmit power	27dBm
Antenna method	2 × 2MIMO, Beamforming
Channel bandwidth	20/40MHz channel width selection
modulation mode	OFDM
Transmission data rate	Maximum 300Mbps
network mode	point-to-point, point-to-multipoint
Penetrating power	1~2 walls
Transmission distance	200m; high-gain antennas extend range
standard protocol	802.11a/n

▼General

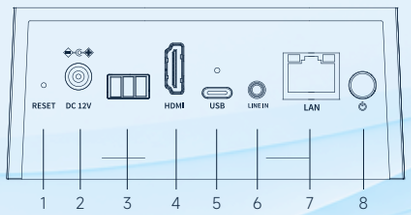
Input Voltage	DC 12V
Input Current	3.0A
battery	9450mAh large capacity rechargeable lithium battery pack
Operating Temp.	-10° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	36W (maximum)
mean time between failures	>30000 hours
Dimensions	143mm (W) × 189.3mm (D) × 201.6mm (H)
Net Weight	1.9kg

▼Optional Accessories

Wireless camera receiver box B10WT	

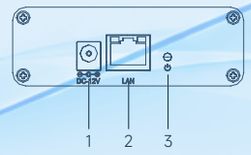
Connections

FY60WB:



1 —— RESET
2 —— DC 12V Power
3 —— RS485
4 —— HDMI
5 —— USB
6 —— LINE IN
7 —— LAN
8 —— ON/OFF

B10WT:



1 —— Power
2 —— LAN
3 —— Power lamp

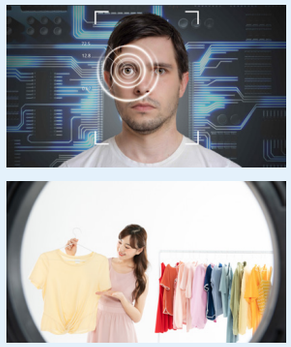
Note: 1. This function is optional.

02

USB Cameras

USB CAMERA

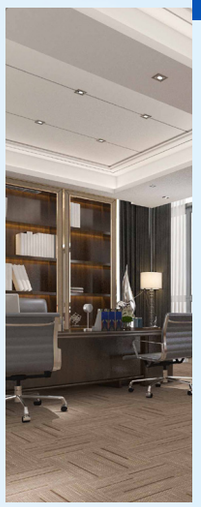












Applications

SCENES TO BE USED

Conferencing, Remote Teaching, Office Work & Live Streaming
Smart Security Inspection & Digital Party-Building

CENTURY FARON / PROFESSIONAL AUDIO & VIDEO

4K UHD Conference Camera

FY71UVS / FY70UVB

Ultra HD quality | Speaker tracking | Support PoE | remote control | Comprehensive I/O

A USB camera specially designed for corporate business negotiations, remote teaching, telemedicine and other scenarios. The lens uses a 4K UHD CMOS image sensor and a 12-20x super telephoto lens. It can capture clear shots from both near and far positions in the conference room with excellent image quality. It provides a full-featured USB interface that can be seamlessly connected to notebooks, conference hosts and other devices to quickly build a remote communication and collaboration environment.



FY71UVS



FY70UVB

Key Features

▼ 4K Ultra HD

FY71UVS:

Adopts a 1/2.5-inch high-quality UHD CMOS sensor with a maximum of 8.51 MP.

FY70UVB:

Adopts a 1/1.8-inch high-quality UHD CMOS sensor with a maximum of 8.42 MP. Achieves 4K (3840x2160) ultra-high-resolution, high-quality images. And it is backward compatible with various resolutions such as 1080P and 720P.

▼High-quality optical zoom + wide-angle lens

FY71UVS:

Exclusively customized high-quality true 8MP ultra-high-resolution ultra-wide-angle lens with a horizontal FOV of up to 71° and an optical zoom of 12×. Adopting a high-quality ultra-high-resolution 4K ultra-telephoto lens, 20× optical zoom, and 60° field of view. Supports night vision mode, and the infrared filter can be automatically switched. Supports 16× digital zoom.

FY70UVB:

▼Speaker tracking

The built-in self-developed ReID pedestrian re-identification technology can accurately identify the speaker's body shape, appearance, clothing and other information. When the speaker moves in the conference room, the camera automatically follows the camera stably to ensure that the speaker is always in the center of the picture. Even if there are multiple people interfering or the speaker walks out of the frame, he can be quickly captured and followed when he enters the frame again.

▼remote control

Multiple control methods, use RS232 (RS485 optional) serial port, network and USB to control the camera.

▼Support PoE

Supports power supply, control and audio and video signal transmission to the camera through PoE network cable, and the wiring is simple and convenient.

▼H.264 encoding support

The output H.264 stream supports Slice and SVC encoding modes, adapting to high-end USB conference video applications.

▼low illumination

The new CMOS image sensor with ultra-high S/N ratio can effectively reduce image noise under low illumination conditions. It also applies 2D and 3D noise reduction algorithms to significantly reduce image noise. Even under ultra-low illumination conditions, the image is still clean and clear, and the image S/N ratio is as high as over 55dB.

▼Comprehensive I/O

Support via USB3.0, HDMI and network interface to simultaneously output three channels of 4K ultra-clear video streams, suitable for The scene is wider.

Remarks:

1. This feature is optional.

Specifications

▼Variants	FY71UVS	FY70UVB
Sensor	1/2.5 inches, CMOS, effective: 8.51 MP	1/1.8 inch, CMOS, effective: 8.42 MP
lens focal length	12×, f4.4mm~52.8mm, F1.8~F2.6	20×, f=6.25mm~125mm, F1.58-F3.95
Horizontal FOV	71° ~ 8.2°	60° ~ 3.5°
Vertical FOV	42.7° ~ 4.5°	35.7° ~ 2.0°
Video Formats	YUY2 (isochronous mode): Maximum 1080P30; MJPEG: Maximum 2160P30; H.264 AVC: Maximum 2160P30; Only FY71UVS supports H.264 SVC: Maximum 2160P30	
Dimensions	144mm (W) × 144mm (D) × 173.4mm (H)	144mm (W) x 144mm (D) x 168.3mm (H)

▼Camera

Video Formats	4KP30, 4KP25, 1080P30, 1080P25
Scanning	Progressive
Digital Zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Backlight Comp.	Yes
Noise Reduction	2D&3D digital noise reduction
S/N Ratio	⩾ 55dB
Pan Range	±170°
Tilt Range	-30° ~ +90°
Pan Speed	2.7° ~ 35.7° /s
Tilt Speed	2.7° ~ 31.5° /s
H/V Flip	Yes
Presets	255
Preset Accuracy	0.1°

▼Network Features

Video Codecs	H.264 / MJEPG
Video Streams	First stream, second stream
Main-Stream Resolution	3840×2160, 1920×1080, 1280×720 etc.
Substream Resolution	1920×1080, 1280×720, 1024×576 etc.
Video Bit Rate	32kbps~20480kbps
Bit Rate Control	VBR / CBR
Frequency	50Hz: 1fps ~ 25fps, 60Hz: 1fps ~ 30fps
Audio Codec	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Protocols	NDI®|HX2, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, SRT, multicast, etc.

▼USB Features

Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 or above, Android needs a version containing UVC related drivers
Color / Compression	YUY2 / MJPEG / H.264
USB Audio	Yes
USB Video Protocol	UVC 1.1
UVC PTZ Control	Yes

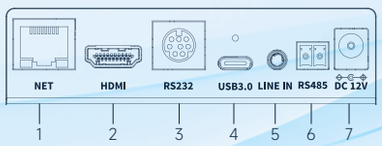
▼Inputs / Outputs

USB interface	1 USB 3.0, Type-C socket
HD Output	1 × HDMI1.4b[1]
Network Port	1 RJ45: 10M/100M adaptive Ethernet
Audio I/O	1 Line In, 3.5mm audio interface
Control I/O	1 × RS232 IN: 8-pin mini DIN, up to 30m; VISCA/Pelco-D/Pelco-P. Optional 1 × RS485 IN: 2-pin Phoenix, up to 1200m; VISCA/Pelco-D/Pelco-P.
Power Input	JEITA type (DC IN 12V)

▼General

Input Voltage	DC 12V / PoE (802.3af)
Input Current	1A
Operating Temp.	-10° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	12W
Net Weight	1.41kg

Connections



1 —— NET interface
2 —— HDMI[1]
3 —— RS232
4 —— USB3.0
5 —— LINE IN
6 —— RS485
7 —— DC 12V power interface

USB PTZ Cameras

FY701RS

Ultra HD quality | 12x optical zoom | OLED display | remote control | Full-featured USB interface

Designed specifically for corporate business meetings, remote teaching and other application scenarios, it uses a high-quality UHD CMOS image sensor to bring 4K (3840×2160) ultra-high-resolution high-quality images. It is paired with a wide-angle telephoto lens to clearly capture the scene content. Supports a full-featured USB interface, driver-free design, and plug-and-play, bringing a convenient and efficient meeting communication and collaboration experience.



Key Features

▼ 4K Ultra HD

Adopting a new generation of SONY 1/2.5-inch high-quality UHD CMOS sensor with a maximum of 8.51 MP, it achieves 4K (3840×2160) ultra-high-resolution high-quality images. And it is backward compatible with multiple resolutions such as 1080P and 720P.

▼12x optical zoom + 71° wide-angle lens

Uses a high-quality ultra-high-resolution 4K UHD wide-angle lens, which supports up to 12× optical zoom. It can also support 24× clear zoom at 1080P resolution, and the horizontal FOV at the wide-angle end reaches 71°.

▼Built-in OLED screen

The fuselage comes with an OLED display that displays HDMI and SDI (SDI cannot display 4K) output resolution, IP address and other information in real time for easy query.

▼remote control

Multiple control methods, use RS232, RS485, network and USB to control the camera.

▼Rich and complete interface

Supports simultaneous output of three 4K ultra-clear video streams through USB, HDMI and network interfaces, making it applicable to a wider range of scenarios.

▼low illumination

The new CMOS image sensor with ultra-high S/N ratio can effectively reduce image noise under low illumination conditions. It also applies 2D and 3D noise reduction algorithms to significantly reduce image noise. Even under ultra-low illumination conditions, the image is still clean and clear, and the image S/N ratio is as high as over 55dB.

Specifications

▼Camera

Video Formats	3G-SDI: 1080P60、1080P30、1080P25 HDMI: 4KP30、4KP25、1080P60、1080P30、
Sensor	1080P25 1/2.5 inches, CMOS, effective: 8.51 MP
Scanning	Progressive
lens focal length	12×, f=4.4mm~52.8mm, F1.8~F2.6
Digital Zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Backlight Comp.	Yes
Noise Reduction	3D DNR
S/N Ratio	⩾ 55dB
Horizontal FOV	71° ~ 8.2°
Vertical FOV	42.7° ~ 4.5
Pan Range	±170°
Tilt Range	-30° ~ +30°
Pan Speed	1.7° ~ 76° /s
Tilt Speed	0.5° ~ 15° /s
H/V Flip	Yes
Image Freeze	Yes
PoE Power	Yes
Presets	255
Preset Accuracy	0.1°

▼Inputs / Outputs

Network Port	1 × RJ45: 10M/100M/1000M adaptive Ethernet, support PoE
HD Output	1 × HDMI: Version 1.4b 1 × 3G-SDI: BNC type, 800mVp-p, 75Ω, following SMPTE 424M standard
USB interface	1 × USB2.0, Type-B (optional upgrade to USB3.0)
Audio I/O	1 × Line In/Mic In, 3.5mm audio interface
Control I/O	1 × RS232 In: 8-pin small DIN, maximum distance 30 meters, VISCA/ Pelco-D/Pelco-P protocol; 1 × RS232 Out: 8-pin small DIN, maximum distance 30 meters, for VISCA protocol networking; 1 × RS485: 2-core Phoenix port, maximum distance: 1200 meters, VISCA/ Pelco-D/Pelco-P protocol
RESTORE button	Yes
Power Input	JEITA type (DC IN 12V)

▼USB Features

Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 or above, Android needs a version containing UVC related drivers
Color space/compression	YUY2 / H.264 / MJPEG
Video Formats	1 YUY2: Maximum 1080P30 (USB3.0); YUY2: Maximum 1080P5 (USB2.0); H.264 AVC: Maximum 2160P30; MJPEG: Maximum 2160P30
USB Audio	Yes
USB Video Protocol	UVC 1.1
UVC PTZ Control	Yes

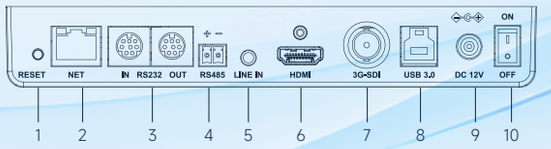
▼Network Features

Video Codecs	H.264 / H.265 / MJPEG
Video Streams	First stream, second stream
Main-Stream Resolution	3840×2160, 1920×1080, 1280×720, 1024×576, etc.
Substream Resolution	720×480, 320×240, etc.
Video Bit Rate	First channel: 32kbps~20480kbps Second channel: 32kbps~51200kbps
Bit Rate Control	VBR / CBR
Frequency	50Hz: 1fps~50fps, 60Hz:1fps~60fps
Audio Codec	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Protocols	NDI®|HX2, SRT, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, multicast, etc.

▼General

Input Voltage	DC 12V / PoE（802.3 af）
Input Current	1.5A (maximum)
Operating Temp.	-0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	12W (maximum)
Dimensions	238mm (W) × 132mm (D) × 166mm (H)
Net Weight	1.35kg

Connections



1 —— RESET
2 —— NET
3 —— RS232 IN/OUT
4 —— RS485
5 —— LINE IN
6 —— HDMI
7 —— 3G-SDI
8 —— USB 3.0
9 —— DC 12V Power
10 —— ON/OFF

HD Conference Camera

FY71UVS3

1080P Full HD | Speaker tracking | Support PoE | UVC protocol | Optical zoom

Designed specifically for remote video conferencing, executive meetings, distance education and training, etc., it features a high-quality HD CMOS image sensor, the video resolution can reach 1080P60fps, and the image quality is excellent and full. Equipped with a wide-angle long zoom lens and a stable mechanical pan/tilt system, which can cover and shoot the entire meeting scene, bringing an excellent remote communication and collaboration experience.



Key Features

▼ 1080P Full HD

Adopting a new generation of 1/2.8-inch, high-quality HD CMOS sensor with 2.07 MP, it brings high-quality images with a maximum high resolution of 1920×1080, and the image quality is clearer.

▼Large wide angle + long zoom

Uses a 72.5° wide-angle lens and supports 12× optical zoom and 16× digital zoom.

▼Various control methods

Supports camera control through RS232 (RS485 optional) serial port, network and USB interface to meet more scene applications.

▼Various power supply methods

It also supports USB 5V power supply, 12V power adapter power supply and PoE network cable power supply.

▼H.264 encoding support

The output H.264 stream supports Slice and SVC encoding modes, adapting to high-end USB conference video applications.

▼Streams

Supports two channels of stream output (any two of YUY2, MJPEG, H.264) at the same time, reducing the coding and decoding pressure on the host.

▼Speaker tracking

The built-in self-developed ReID pedestrian re-identification technology can accurately identify the speaker's body shape, appearance, clothing and other information. When the speaker moves in the conference room, the camera automatically follows the camera stably to ensure that the speaker is always in the center of the picture. Even if there are multiple people interfering or the speaker walks out of the frame, he can be quickly captured and followed when he enters the frame again.

▼Comprehensive I/O

Simultaneous 1080P output via HDMI, USB3.0 and LAN connects to more

Peripherals, expand application scenarios.

▼Support NDI®|HX2 [1]

It achieves low-latency, high-quality, frame-accurate audio and video transmission, as well as real-time discovery, interactive control, and flexible IP production and broadcasting working modes, which can excellently meet the needs of network video production.

Remarks:

1. This feature is optional.

Specifications

▼Camera

Video Formats	1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50
Sensor	1/2.8 inch, CMOS, effective: 2.07 MP
Scanning	Progressive
Digital Zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Backlight Comp.	Yes
Noise Reduction	2D&3D digital noise reduction
S/N Ratio	⩾ 55dB
Pan Range	±170°
Tilt Range	-30° ~ +90°
Pan Speed	2.7° ~ 35.7° /s
Tilt Speed	2.7° ~ 31.5° /s
lens focal length	12×, f3.5mm~42.3mm, F1.8~F2.8
Horizontal FOV	72.5° ~ 6.9°
Vertical FOV	44.8° ~ 3.9°
Video Formats	YUY2 (isochronous mode): Maximum 1080P60; H.264 AVC: Maximum 1080P60; MJPEG: Maximum 1080P60; H.264 SVC (optional): Maximum 1080P60
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
H/V Flip	Yes
Image Freeze	Yes
Presets	255
Preset Accuracy	0.1°

▼Network Features

Video Codecs	H.264 / MJEPG
Video Streams	First stream, second stream
Main-Stream Resolution	1920×1080, 1280×720, 1024×576 etc.
Substream Resolution	1280×720, 1024×576, 720×480 etc.
Video Bit Rate	32Kbps ~ 10240Kbps
Bit Rate Control	VBR / CBR
Audio Codec	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Protocols	NDI®|HX2, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, SRT, Multicast, etc.

▼USB Features

Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 or above, Android needs a version containing UVC related drivers
Color Space/Audio	YUY2 / H.264 / MJPEG
USB Audio	Yes
USB Video Protocol	UVC 1.1
UVC PTZ Control	Yes

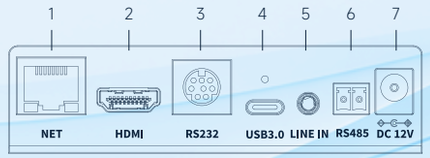
▼Inputs / Outputs

USB interface	1 × USB 3.0, Type-C socket
HD Output	1 × HDMI1.4b[1]
Network Port	1 × RJ45: 10M/100M adaptive Ethernet
Audio I/O	1 × Line In, 3.5mm audio interface
Power Input	JEITA type (DC IN 12V)/USB Type C (DC IN 5V)/PoE
Control I/O	1 × RS232 In: 8-pin mini DIN, maximum distance: 30 meters, VISCA/Pelco-D/Pelco-P protocol 1 × RS485 In (optional): 2-core Phoenix port, maximum distance: 1200 meters, VISCA/Pelco-D/Pelco-P protocol

▼General

Input Voltage	DC 12V/DC 5V/PoE(802.3af)
Input Current	12V 1.0A(max)/5V 1.5A
Operating Temp.	-10° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Dimensions	144mm (W) × 144mm (D) × 166.89mm (H)
Net Weight	1.41kg
Power Consumption	12W
mean time between failures	>30000 hours

Connections



1 —— NET interface
2 —— HDMI [1]
3 —— RS232
4 —— USB3.0
5 —— LINE IN
6 —— RS485
7 —— DC 12V Power

USB HD Conference Camera

FY71US2

1080P Full HD | 12x optical zoom | Built-in Mic | USB 3.0 | remote control

A USB video recording device specially designed for corporate video conferencing, personal office, teaching lecture capture, etc., it uses a high-quality HD CMOS image sensor, and the output frame rate at 1080P can reach 60fps, with clear and full image quality. Equipped with a large wide-angle and long zoom lens to clearly capture the entire meeting scene, bringing vivid and realistic meeting communication and remote collaboration.



Key Features

▼ 1080P Full HD

Using a new generation of 1/2.8-inch, high-quality HD CMOS sensor with 2.07 MP, it achieves high-quality images with a maximum resolution of 1920×1080, and the output frame rate can reach 60fps at 1080P.

▼72.5° wide-angle lens + 12x optical zoom

Uses a 72.5° high-quality wide-angle lens and supports 12× optical zoom and 16× digital zoom, allowing you to shoot clearly from both distance and distance.

▼Built-in Mic [1]

Optional built-in microphones provide pickup up to 6m with low background noise, supporting meetings, live streaming and recording.

▼Various control methods

Supports camera control through RS232 (RS485 optional) serial port, network and USB interface.

▼Full-featured USB interface

Full-featured USB3.0 interface, supports audio and video output, supports encoding output, and supports UVC v1.1 protocol.

▼H.264 Slice/ H.264 SVC encoding support

The output H.264 stream supports Slice and SVC encoding modes, adapting to high-end USB conference video applications.

▼low illumination

The new CMOS image sensor with ultra-high S/N ratio can effectively reduce image noise under low illumination conditions. It also applies 2D and 3D noise reduction algorithms to significantly reduce image noise. Even under ultra-low illumination conditions, the image is still clean and clear, and the image S/N ratio is as high as over 55dB.

▼Comprehensive I/O

Supports HMDI and USB3.0 to output two 1080P video streams at the same time, and can be connected to a variety of peripherals to bring more conferencing experience.

Remarks:

1. This feature is optional.

Specifications

▼Camera

Video Formats	1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50
Sensor	1/2.8 inch, CMOS, effective: 2.07 MP
Scanning	Progressive
Digital Zoom	16×
Lens	12×, f3.5mm ~ 42.3mm, F1.8 ~ F2.8
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor/Outdoor, One-Push, Manual, Color Temp.
Backlight Comp.	Yes
Noise Reduction	2D&3D digital noise reduction
S/N Ratio	⩾ 55dB
Horizontal FOV	72.5° ~ 6.9°
Vertical FOV	44.8° ~ 3.9°
Pan Range	±170°
Tilt Range	±30°
Pan Speed	1.61° ~ 75.56° /s
Tilt Speed	0.44° ~ 15° /s
H/V Flip	Yes
Image Freeze	Yes
Presets	255
Preset Accuracy	0.1°
Built-in Mic	Optional
Microphone pickup distance	6 meters

▼USB Features

Operating Systems	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color Space/Audio	YUY2 / H.264 / MJPEG
Video Formats	YUY2 (isochronous mode): 1080P60 maximum; H.264 AVC: 1080P60 maximum; MJPEG: 1080P60 maximum
USB Audio	Yes
USB Video Protocol	UVC 1.1
UVC PTZ Control	Yes

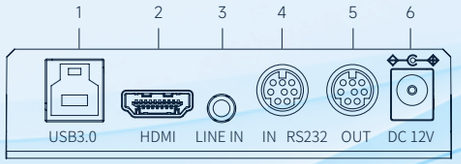
▼Inputs / Outputs

HD Output	1 × HDMI 1.4b
USB interface	USB 3.0
Audio I/O	1 × Line In, 3.5mm audio interface
Control I/O	1 × RS232 In: 8-pin small DIN, maximum distance: 30 meters, VISCA/Pelco-D/Pelco-P protocol 1 × RS232 Out: 8-pin small DIN, maximum distance: 30 meters, for VISCA protocol networking
Power Input	JEITA type (DC IN 12V)

▼General

Input Voltage	DC 12V
Input Current	1A
Operating Temp.	-10° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	12W
mean time between failures	>30000 hours
Dimensions	99mm (W) × 128mm (D) × 154mm (H)
Net Weight	0.9kg

Connections



1 —— USB3.0
2 —— HDMI
3 —— LINE IN
4 —— RS232 IN
5 —— RS232 OUT
6 —— DC 12V Power

USB HD Conference Camera

FY20CG

1080P Full HD | 10x optical zoom | Streams | USB 2.0 | remote control

Designed specifically for corporate business negotiations, personal office work, teaching lecture capture, etc., it uses a new generation 1/2.8-inch HD CMOS image sensor, paired with a 58.5° wide-angle and 10x optical zoom lens, to clearly present meeting scenes and bring a stable and efficient remote communication and collaboration experience.



Key Features

▼ 1080P Full HD

Using a high-quality HD CMOS sensor with 2.07 MP, it achieves high-quality images with a maximum resolution of 1920×1080.

▼10x optical zoom

The lens supports 10× optical zoom, with a focal length of f=4.7mm ~ 46.3mm, clearly showing close-up images of the venue.

▼Electric mechanical pan/tilt

The built-in self-developed electromechanical pan/tilt has a horizontal rotation range of up to ±170° and a rotation speed range of 2.7° ~ 47° /s; a vertical rotation range of -30° ~ 90° and a rotation speed range of 3.4° ~ 30° /s.

▼remote control

Supports remote control of the camera through RS232 serial port.

▼H.264 Slice/ H.264 SVC encoding support [1]

The output H.264 stream supports Slice and SVC encoding modes, adapting to high-end USB conference video applications.

▼Streams [1]

Supports two stream outputs (YUY2, MJPEG, H.264) at the same time, reducing the encoding and decoding pressure on the host.

▼More flexible installation

Supports horizontal and vertical flipping, and can be installed in formal installation, ceiling installation, or ceiling installation. Different installation methods can be selected according to the actual needs of the venue.

Remarks:

1. This feature is optional.

Specifications

▼Camera

Video Formats	1080P/720P/540P/480P/360P/240P; varies by color space/codec
Sensor	1/2.8 inches, CMOS, effective: 2.07 MP
Scanning	Progressive
Lens	10×, f4.7mm~46.3mm, F1.8~F2.8
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, In/Out, One-Push, Manual, CCT
Backlight Comp.	Yes
Noise Reduction	2D&3D digital noise reduction
S/N Ratio	≥ 55dB
Horizontal FOV	58.5° ~ 6.5°
Vertical FOV	35.1° ~ 3.6°
Pan Range	±170°
Tilt Range	-30° ~ +90°
Pan Speed	2.7° ~ 47° /s
Tilt Speed	3.4° ~ 30° /s
H/V Flip	Yes
Presets	255
Preset Accuracy	0.1°

▼Inputs / Outputs

USB interface	1 × USB 2.0, Type B socket
Control I/O	1 × RS232 IN: 8-pin mini DIN, up to 30m; VISCA/Pelco-D/Pelco-P. m,
Power Input	JEITA type (DC IN 12V)

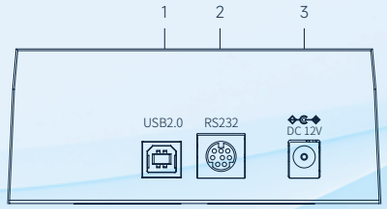
▼USB Features

Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 or above, Android needs a version containing UVC related drivers
Color / Compression	YUY2 / H.264 / MJPEG
Video Formats	H.264 AVC: up to 1080P30; MJPEG: up to 1080P30
USB Video Protocol	UVC 1.1
UVC PTZ Control	Yes

▼General

Input Voltage	DC 12V
Input Current	1A
Operating Temp.	-10° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	12W
mean time between failures	>30000 hours
Dimensions	141.5mm (W) × 151.1mm (D) × 170.2 mm (H)
Net Weight	1.153kg

Connections



1 —— USB2.0
2 —— RS232
3 —— DC 12V Power

HD Beauty Streaming Camera

FY73USS-I

1080P Full HD | ToF rapid focus | Vertical screen output | 12x optical zoom | Video beauty

The HD beauty-enhanced streaming camera specially designed for live broadcast scenes uses a new generation HD CMOS image sensor to achieve 1080*1920 high-resolution image quality. It has built-in image processing and third-party beauty plug-ins, making live broadcasts more photogenic and beautiful.



Key Features

▼ 1080P Full HD

Adopting a new generation of 1/2.8-inch, high-quality HD CMOS sensor with 2.07 MP, it achieves high-quality images with a maximum resolution of 1080×1920. The output frame rate is as high as 60 frames/second, and the picture is clear and smooth.

▼12x optical zoom

Uses a high-quality ultra-wide-focus lens and supports 12x optical zoom and 16x digital zoom at the same time, allowing you to shoot clearly from far and near positions.

▼remote control

Supports remote control of cameras through RS232 serial port to expand application scenarios.

▼Full-featured USB interface

Full-featured USB interface, compatible with USB3.0, USB2.0, supports audio, supports encoding output, and supports UVC v1.1 protocol.

▼Auto focus algorithm

The built-in AF focusing algorithm and TOF auxiliary focusing module allow the lens to focus on the target quickly, accurately and stably.

▼low illumination

The new CMOS image sensor with ultra-high S/N ratio can effectively reduce image noise under low illumination conditions. It also applies 2D and 3D noise reduction algorithms to significantly reduce image noise. Even under ultra-low illumination conditions, the image is still clean and clear, and the image S/N ratio is as high as over 55dB.

▼Built-in Mic [1]

Optional built-in microphone with pickup distance up to 6 meters, high sensitivity and low noise floor.

▼Portrait mode

Supports output of 1080x1920 vertical screen video stream, which can be pushed to various mainstream live broadcast platforms.

Remarks:

1. This feature is optional.

Specifications

▼Camera

Video Formats	1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50
Sensor	1/2.8 inches, CMOS, effective: 2.07 MP
Scanning	Progressive
Lens	12x, f3.5mm ~ 42.3mm, F1.8 ~ F2.8
Digital Zoom	16×
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor/Outdoor, One-Push, Manual, Color Temp.
Backlight Comp.	Yes
Noise Reduction	2D&3D digital noise reduction
S/N Ratio	⩾ 55dB
Horizontal FOV	44.8° ~ 3.9°
Vertical FOV	72.5° ~ 6.9°
Pan Range	±170°
Tilt Range	±30°
Pan Speed	1.61° ~ 75.56° /s
Tilt Speed	0.44° ~ 15° /s
H/V Flip	Yes
Image Freeze	Yes
Presets	255
Preset Accuracy	0.1°
Built-in Mic	Yes
Microphone pickup distance	6 meters

▼USB Features

Operating Systems	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color Space/Audio	YUY2 / MJPEG
USB Audio	Yes
USB Video Protocol	UVC 1.1
UVC PTZ Control	Yes

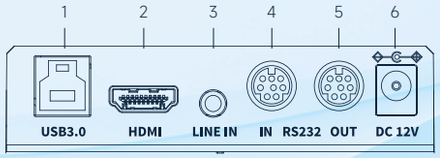
▼Inputs / Outputs

USB interface	1 × USB 3.0, Type B socket
HD Output	1 × HDMI 1.4b
Audio I/O	1 × Line In, 3.5mm audio interface
Control I/O	1 × RS232 In: 8-pin small DIN, maximum distance: 30 meters, VISCA/Pelco-D/Pelco-P protocol 1 × RS232 Out: 8-pin small DIN, maximum distance: 30 meters, for VISCA protocol networking
Power Input	JEITA type (DC IN 12V)

▼General

Input Voltage	DC 12V
Input Current	1.5A
Operating Temp.	-10° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	18W (maximum)
mean time between failures	>30000 hours
Dimensions	136.2mm (W) × 136.2mm (D) × 158.2mm (H)
Net Weight	1kg

Connections



1 —— USB3.0
2 —— HDMI
3 —— LINE IN
4 —— RS232 IN
5 —— RS232 OUT
6 —— DC 12V Power

UHD Business Webcam

FY1700US

Ultra HD quality | 120° wide angle | USB 3.0 | Built-in Mic | Participant box selection

An UHD commercial camera specially designed for small and medium-sized enterprise conference rooms. Uses a new 1/2.5-inch 4K CMOS sensor to achieve 3840x2160 ultra-high-resolution image quality, bringing a more delicate and realistic video conferencing experience. The matching damping rotation axis bracket can be adapted to mainstream displays on the market and can be quickly installed and deployed.

Zoom certification | Tencent Conference Certification | Kirin certification



Key Features

▼ 4K Ultra HD

Uses a 1/2.5-inch 4K CMOS sensor with 8.29 MP, supports up to 4KP30 image encoding output, and is also backward compatible with 1080P, 720P and other resolutions.

▼Extra large field of view

Supports 120° wide-angle fixed focus lens, supports EPTZ electronic zoom, and the magnification is also clear.

▼AI participant selection

The built-in video AI algorithm can identify the positions of participants and automatically adjust the camera angle to obtain the best composition.

▼Built-in Mic

Two digital microphones and proprietary noise suppression provide clear omnidirectional pickup within 6m.

▼ USB3.0

Full-featured USB3.0 interface, integrating power supply, video and audio, supporting 1 USB video signal source + audio source output, optionally supporting 1 HDMI output.

▼Installation is easier

The camera features a damped rotation axis bracket as standard, which is suitable for most types of monitors on the market. It is simple to install, stable and reliable.

Remarks:

1. This feature is optional.

Specifications

▼Camera

Sensor	1/2.5 inches, CMOS, effective: 8.29 MP
Scanning method Lens mount type	Progressive M12
Lens	Focal length: f=2.8mm, horizontal FOV: 120°
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor/Outdoor, One-Push, Manual Color Temp.
Backlight Comp.	Yes
Noise Reduction	2D&3D digital noise reduction
camera stand	Standard damping rotation bracket

▼Audio Features

Microphones	Built-in 2 array microphones
Pickup Range	6m effective audio pickup

▼Inputs / Outputs

USB interface	1 × USB3.0: Type B, female connector
HDMI	1 × HDMI 1.4 [1]

▼General

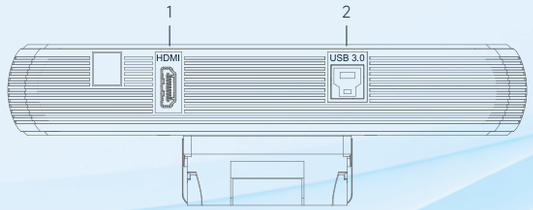
Input Voltage	5V (USB powered)
Input Current	0.6A
Operating Temp.	-10° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	3W
Dimensions	194mm (W) × 42mm (D) × 34mm (H) (without bracket)
Net Weight	0.5kg

▼USB Features

Operating Systems	Windows® 7 (1080p or lower), Windows 8/10/11, MacOS X, Linux 2.4.6 or later, Android. UVC drivers required.
Color / Compression	YUY2 / H.264 / MJPEG
Video Formats	4KP30/25; 1080P/30/25; 720P/30/25; 960x540P/30/25; 640x360P/30/25
USB Video Protocol	UVC 1.1
UVC PTZ Control	Support (EPTZ)



Connections



1 —— HDMI [1]
2 —— USB3.0 interface

UHD USB Webcam

FY1702U

Ultra HD quality | 110° super wide angle | Mic Array | USB 3.0 | AI intelligent tracking

Designed for shooting, the USB camera, lens, and microphone are two-in-one. Ultra-high-resolution high-quality images are paired with a wide-angle lens. It has excellent image quality and a wide field of view. The intelligent tracking function automatically tracks moving targets. The USB interface is convenient and fast, lightweight and easy to carry. It is plug-and-play and is suitable for video conferencing, personal office and other scenarios.



Specifications

▼Camera

Sensor	1/2.7 inches, CMOS, effective: 8.29 MP
Scanning method Lens mount type	Progressive M12
Lens	f=2.2mm; H-FOV: 110°
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Automatic, indoor, outdoor, one-touch, manual
camera stand	Standard damping rotation bracket
Noise Reduction	2D&3D digital noise reduction
Backlight Comp.	Yes

▼USB Features

Operating Systems	Windows 7 (only supports UVC1.1 features), Windows 8, Windows 10, Windows 11, Mac OS X, Linux2.4.6 or above, Android needs a version containing UVC related drivers
Hardware requirements	2.4 GHz Intel® Core 2 Duo processor or higher 2 GB RAM or higher USB 2.0 interface (4K requires USB 3.0)
Color / Compression	H.264 / MJPEG / YUY2
Video Formats	4KP30/25, 1080P30/25, 720P30/25, 960×540P30/25, 640×360P30/25, etc.
USB Video Protocol	UVC 1.1
UVC PTZ Control	Support(EPTZ)

▼Audio Features

Microphones	Built-in 2 array microphones
Pickup Range	6m effective audio pickup

▼Inputs / Outputs

USB interface	1 × USB 3.0，Type-C
Infrared remote control	Yes

▼General

Input Voltage	5V (USB powered)
Input Current	0.6A (maximum)
Operating Temp.	0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	3W (maximum)
Dimensions	118mm × 37.2mm × 30.8mm (excluding bracket)



Key Features

▼ Ultra high definition and large field of view

Equipped with a new generation of UHD CMOS image sensor, it has more accurate native resolution, richer color information, four times the effect of HD images, and shoots 4K videos with full details. Paired with a 110-degree ultra-large viewing angle and low-distortion 4K lens, you can enjoy a panoramic view.

▼ USB 3.0

Full-featured USB 3.0 interface, integrating power supply, video and audio, and can also support 2 USB video signal sources (optional) + 1 audio source at the same time.

▼Beamforming Mic Array [1]

Built-in beamforming microphone array, unique noise suppression algorithm and automatic gain algorithm, with a pickup distance of up to 6 meters, allowing your voice to be perfectly presented.

▼AI capabilities

Multi-layer convolutional neural network design and cutting-edge deep learning algorithms give the camera intelligent features, and high-quality analysis data can be obtained through an open API.

▼AI Human Tracking

Embedded NNE hardware unit, using deep learning technology to extract target features, achieves smooth human tracking no matter where the person's face is facing, suitable for application scenarios such as automatic speaker tracking.

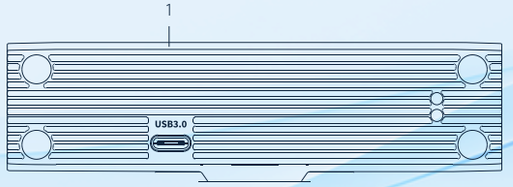
▼Convenient operation

Through the exquisite infrared remote control and exclusive software, you can start automatic frame selection and human tracking with one click. At the same time, you can set preset positions, ePTZ, image parameters, etc.

Remarks:

1. Maximum pickup range is based on manufacturer lab tests; actual range varies by environment.

Connections



1 —— USB3.0 interface

Mini All-in-One AV System

FY10

1080P Full HD | 3-in-1 | audio algorithm | full range speakers | Built-in Mic

This mini USB audio and video all-in-one system is specially designed for small conference rooms and personal offices. It integrates a three-in-one design with a HD camera, an omnidirectional microphone, and a full-range speaker, which greatly simplifies wiring. Connected via USB, no debugging required, just plug and play, making video conferencing easy and fun.



Key Features

▼ Integrated bionic design

Integrated HD camera, high-sensitivity omnidirectional microphone, and full-range speaker three-in-one design, plug and play, simple wiring. Unique bionic design brings excellent conference audio-visual experience.

▼ Full HD wide angle lens

The high-quality HD CMOS sensor can provide up to 1080P 30fps/25fps image encoding output; the horizontal FOV can reach 90°, and there is no distortion at the edge of the picture.

▼ 360° sensitive audio pickup

Equipped with a digital microphone to achieve 360° omnidirectional audio pickup, with a audio pickup sensitivity of up to -30±2dB; equipped with a volume automatic gain algorithm, the audio pickup at any position is balanced and loud.

▼ Audio 3A algorithm

Built-in audio 3A algorithm (AEC/AGC/ANS), full-duplex dialogue, can automatically balance the volume level while collecting voice, while effectively suppressing noise, and the sound quality is clear and balanced.

▼ Harman tuned full range speakers

Using Harman-tuned speakers with a duct-type sound chamber, the sound playback effect is excellent, the treble is clear and penetrating, the bass is natural and surging, and the vocals are full and clear.

▼ Electronic pan/tilt

There is no need for a mechanical rotating device, achieving a more accurate, noiseless, more reliable and durable pan/tilt function. It also supports 4X digital zoom function.

▼ Privacy mask design

The camera features an integrated sliding privacy cover that can be closed at any time to protect participant privacy.

▼ Easy to install

Installed through a damped rotating axis bracket, it is suitable for almost 100% of monitors on the market. It is easy to install, stable and reliable.

Specifications

▼Camera

Sensor	1/2.8 inches, CMOS, effective: 2.07 MP
Scanning	Progressive
Lens mount type	M12
Lens	Focal length: f=2.8mm, horizontal FOV: 90°
AF	Yes
Min. Illumination	0.5 Lux @ (F2.0, AGC ON)
electronic shutter	1/30s ~ 1/10000s
White Balance	Automatic, manual, specified color temperature
camera stand	Standard damping rotation bracket
physical privacy mask	Yes
Backlight Comp.	Yes
Noise Reduction	2D, 3D digital noise reduction
Digital Zoom	4×

▼Audio Features

audio algorithm	Support AEC/AGC/ANS
full range speakers	82dB SPL at 0.5 meters
Microphones	Omnidirectional microphone, sensitivity: -30±2dB

▼Inputs / Outputs

USB interface	1 × USB 2.0: Type-C

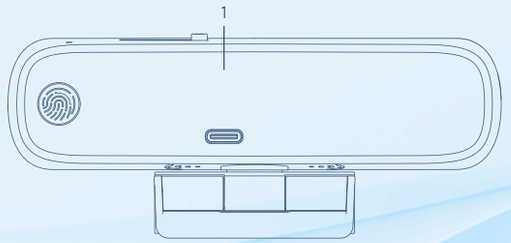
▼USB Features

Operating Systems	Windows® 7 (only supports 1080p and below), Windows 8.1, Windows 10 or higher macOS ™ 10.10 or higher Google ™ Chromebook ™ Version 29.0.1547.70 or higher Linux (requires UVC support)
Hardware requirements	2.4 GHz Intel® Core 2 Duo processor or higher 2 GB RAM or higher USB 2.0 interface
Color / Compression	YUY2 / H.264 / MJPEG
Video Formats	1080P30/25, 720P30/25, 960x540P30/25, 640x360P30/25
USB Video Protocol	UVC 1.1
UAC	Yes
UVC PTZ Control	Support (ePTZ)

▼General

Input Voltage	5V (USB powered)
Input Current	0.5A
Operating Temp.	0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Power Consumption	2.5W
Dimensions (without stand)	121mm (W) × 31mm (D) × 35mm (H)
Net Weight	0.1kg

Connections



03

All-in-One AV Systems

AUDIO AND VIDEO ALL-IN-ONE



Applications

SCENES TO BE USED

Small seminars, business meetings, online teaching, telemedicine, teleconsultation, online live broadcast

CENTURY FARON / PROFESSIONAL AUDIO & VIDEO

UHD All-in-One AV System

FY1000S

BYOM | Ultra HD quality | AI Assistance | AI noise reduction | 3-in-1

Designed specifically for small and medium-sized conference rooms, it has three-in-one integration and is easy to deploy and operate. Supports BYOM presentation sharing conferences through wired and wireless connections, and is flexibly compatible with international mainstream cloud conference platforms, greatly enhancing the flexibility of remote conferences and improving communication and collaboration efficiency.



Key Features

▼ Integrated design

It integrates an UHD camera, array microphone, and full-range speaker into a three-in-one design with minimal wiring, making remote collaboration easy.

▼Wired & Wireless Screen Mirroring

With a wired or wireless presentation dongle, participants can share the screen with "one click" on their personal laptops. At the same time, they can also use the professional audio-visual capabilities and AI audio and video functions of the all-in-one system. Participants can use any cloud conferencing software to join the meeting, easily obtaining a professional-level audio and video collaboration experience.

▼Ultra HD quality

Uses a 1/1.8-inch high-quality UHD CMOS sensor with 20 MP to output clear images with 4K@30fps UHD resolution, and is backward compatible with multiple resolutions such as 1080P and 720P to meet users' needs for different video experiences.

▼Broad vision

An optical lens specially customized for conference scenes, with a 120° wide field of view (110° horizontal FOV), 5x digital zoom, and built-in electric pan/tilt (±15° movement range in horizontal and tilt), making it easier for meeting participants to clearly capture the camera.

▼Participant box selection

The built-in frame selection AI algorithm can identify the number of participants and their position changes, automatically adjust the viewing angle and screen zoom to obtain the best composition, and ensure that all participants can be in the frame.

▼Spokesperson close-up

Equipped with a high-precision sound source positioning AI algorithm, it can identify the position of the sound and link it with EPTZ to automatically present a clear close-up picture of the speaker, switch between different speakers in real time, and ensure that the active speaker is in the center of the picture.

▼Wisdom Gallery

Equipped with face and human detection AI algorithms, it automatically displays close-up images of multiple participants, and adaptively and dynamically switches the screen layout, allowing every participant to equally participate in the meeting and experience the presence of face-to-face communication.

▼Effective audio pickup at 6 meters

Built-in 6 sets of beamforming microphones form a pickup array, with an effective pickup distance of 6 meters. The low-distortion lateral beamforming algorithm can guide the microphones directly to the speaker, making the voice clear and natural.

▼Intelligent audio algorithm

Equipped with the AI audio 3A algorithm (AEC/AGC/ANS) with deep learning capabilities, it can effectively eliminate environmental noise, reverberation, and noise in the conference room, and suppress echoes. The speech effect can be consistent regardless of the distance in the venue, providing a high-quality full-duplex conversation experience.

▼Full-range professional sound reinforcement

Built-in full-frequency high-fidelity speakers, professional acoustic structure design, the sound is restored to be transparent, full and real.

▼Cascading extended pickup

A PoE expansion port supports three daisy-chained FYM702 array microphones for even

Cover a larger area of meeting space.

▼Easy to deploy

It provides a variety of installation options such as countertop placement, wall hanging, and TV/display hanging. Supports USB plug-and-play, making equipment deployment flexible and easy.

Specifications

▼Camera

Output format image sensor	4KP30, 1080P30/60, 720P60 1/1.8 inches, CMOS, 20 MP
Lens focal length/aperture	f=2.55mm，F2.8
Zoom type/magnification	Digital zoom, 5X
Shutter	1/30s-1/10000s
Min. Illumination	0.5Lux @ (F1.8, AGC ON)
focus	automatic
exposure	Automatic, manual, shutter priority, brightness priority
White Balance	Automatic, manual, one-push, specified color temperature
Backlight Comp.	Yes
Noise Reduction	2D&3D noise reduction
S/N Ratio	≥ 50dB
field of view	120° (diagonal), 110° (horizontal), 75° (vertical)
Mechanical pan/tilt	Support MPTZ
Pan Range	±15°
Pan/tilt vertical rotation range	±15°

▼Microphones

Microphone Type	6 digital MEMS microphone arrays, beamforming technology
Pickup range	Pickup: 6m effective, 4m clear
Extended microphone	Supports 1-3 digital array microphone POE cascade expansion

▼Speaker

Drive type	1 x 2" full-range unit, bass radiation enhanced sound cavity
Rated power/impedance	8W/8Ω (maximum power 12W)
Sensitivity	85±3dB@1M/1W

▼AI video features

Group Framing	Yes
Speaker Framing	Yes
Smart Gallery	Yes

▼AI audio features

AI Noise Suppression (ANS)	Yes
AI Echo Cancellation (AEC)	Yes
AI Gain Control (AGC)	Yes
AI Reverberation Suppression (ARS)	Yes

▼Network Features

Network protocol version	IPv4、IPv6
Network protocol support	TCP/IP, DHCP, SSH, HTTP, HTTPS with SSL/TLS, RTP, RTCP, SNTP, ARP

▼USB Features

Connection type	USB 3.0: 5Gbps; USB2.0 compatible
Video encoding format	YUY2
video compression standards	MJPEG / H.264
Audio encoding format	PCM
Audio sample rate/bit depth	48KHz/16bit
video communication protocol	UVC1.5
audio communication protocol	UAC1.0
USB PTZ control	Yes

▼Inputs / Outputs

USB	1 x USB 3.0 Type-C, audio and video transmission, USB peripheral mode and firmware upgrade 1 x USB 3.0 Type-A, extended audio peripherals, reverse touch and firmware upgrade
HDMI	1 × HDMI IN 1.4: content input with audio 1 × HDMI OUT 2.0: camera/content output, no audio
Extended interface	1 × RJ45, PSE (IEEE802.3at/25W), for wired presentation and digital mic expansion
Network Port	1 x RJ45, 10/100/1000 Base-T, remote management
wireless network	Wi-Fi5, 2.4G/5G, IEEE802.11a/b/g/n/ac; wireless BYOM and presentation (optional dongle required)
Power Input	1 x JEITA type, DC 12V/5A

▼Installation and deployment

Installation method	Desktop placement, wall mounting, TV bracket mounting
Security protection	Anti-theft lock jack

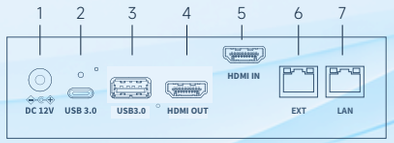
▼Packaging contents

Host	1 x Ultra HD USB audio and video all-in-one system
power adapter	1 x DC power adapter (60W)
USB cable	1 x USB 3.0 Type-C M-M cable, 2 meters
Install accessories	1 x wall mount bracket (screws included)
remote control	1 x IR remote control

▼General

Power	Input: AC 100~240V 50/60Hz, output: DC 12V/5A
Working/storage temperature	0° C ~ 40° C/-40° C ~ 60° C
Working/storage humidity	10 to 95%
Unit (L×H×D): 600×135×117mm, with bracket	
Package (L×H×D): 660×228×220mm	
Host net weight	2.5 Kg
Certifications and standards	CQC, Wireless Type Approval, CE, FCC

Connections



1 —— DC 12V Power
2 —— USB3.0
3 —— USB3.0
4 —— HDMI OUT
5 —— HDMI IN
6 —— EXT
7 —— LAN interface

04

Video Conferencing

VIDEO CONFERENCING ENDPOINT

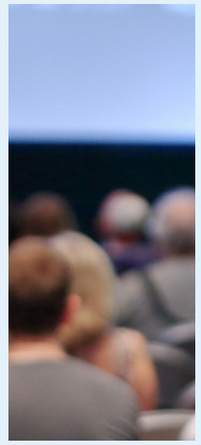














Applications

SCENES TO BE USED

Government, Global & Cloud Meetings, Summits & Telemedicine
Encrypted Meetings, Remote Command & Emergency Rescue

SINCE 2007
盛世飞扬
Century Faron

SINCE 2007
盛世飞扬
Century Faron

CENTURY FARON / PROFESSIONAL AUDIO & VIDEO

Rackmount Conference Endpoint

FY300L / FY300L-C

4K codec · Unified Meetings · video 4 in 3 out · Audio 8 in 7 out · Built-in MCU

The split-type UHD video conferencing terminal specially designed for corporate administrative meetings, group meetings, emergency command, telemedicine and other scenarios supports 4K30 + 4K30 video stream output at the same time, providing users with the ultimate conferencing experience. The video supports four inputs and three outputs, and can be adapted to various types of cameras and display devices to meet the integration needs of various types of conference rooms.



Key Features

▼Unified Meetings

Supports the standard SIP&H.323 multimedia communication protocol to meet the needs of enterprises for private network conferencing; it is compatible with mainstream cloud video conferencing platforms such as Tencent Conference to quickly organize an online video conference; it is also compatible with the Division private cloud conferencing platform to flexibly meet the diverse conferencing needs of enterprises.

▼4K dual stream

Supporting H.265 video codec, it can simultaneously transmit 4KP30+4KP30 UHD video streams, present conference images, shared files, multimedia and other content, realize collaborative processing of multi-tasks in meetings, and bring an immersive communication and collaboration experience.

▼Three screens and three displays, rich content

Supports the simultaneous display of video images of local and remote participants during the meeting, as well as presentations, audience questions, meeting data analysis during real-time voting, etc., effectively enhancing the interactivity of the meeting.

▼BYOM Conferencing

Supports wired and wireless BYOM functions. By connecting to the terminal through a presentation dongle, users can use their familiar computers and conference applications to hold presentation sharing meetings. It is compatible with any cloud conference platform, greatly improving the efficiency of terminal equipment utilization and adapting to multi-platform remote collaboration. The presentation sharing device also supports SIP conference presentation sharing. Seamless switching between BYOM conference and SIP conference is more convenient.

▼bilingual simultaneous interpretation

Supports simultaneous input and output of two independent audio signals, enabling simultaneous bilingual encoding and decoding transmission to meet the needs of special conference scenarios such as simultaneous interpretation.

▼Packet-Loss Resilience

In the case of severe network packet loss, the FEC proprietary technology can be turned on. Packet loss within 20% will have no impact on the system. Conferences with 30% packet loss can still proceed normally, effectively solving the problems of network jitter and packet loss.

▼Built-in MCU (optional)

The optional built-in MCU multi-point control unit supports up to 1+8-end HD video conferencing. Users can configure built-in authorization without the need to purchase and configure additional independent MCU devices, simplifying system deployment and management.

▼Comprehensive I/O

Supports rich interfaces such as HDMI, USB, RJ45, RS232, etc., supports multi-channel audio and video input and output, flexibly matches various devices in the conference room, and has a wider range of applications.

Specifications

▼Model	FY300L	FY300L-C
Name	Ultra-clear video conferencing terminal	HD video conferencing terminal

▼Video characteristics		
Active image resolution	4KP30, minimum bandwidth 2048Kpbs 1080p, minimum bandwidth 512Kpbs	1080p, minimum bandwidth 512Kpbs
Data content resolution	• Input: VGA (640x480), SVGA (800x600), XGA(1024x768), WXGA(1280x768), WXGA (1280x800), 1280x960, SXGA(1280x1024), 1360x768, 1366x768, 1440x900, 1600x900, 720p(1280x720), 1080p(1920x1080), 3840x2160 • Output: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080, 3840x2160	• Input: VGA (640x480), SVGA (800x600), XGA(1024x768), WXGA(1280x768), WXGA (1280x800), 1280x960, SXGA(1280x1024), 1360x768, 1366x768, 1440x900, 1600x900, 720p(1280x720), 1080p(1920x1080) • Output: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080
Dual flow of activities	4KP30+4KP30	1080P60+1080P60
Other image properties	Supports PIP, POP and other display modes	

▼Audio Features	
Audio Features	• Automatic Echo Cancellation (AEC) • Automatic Gain Control (AGC) • Automatic Noise Suppression (ANS) • Lip sync support

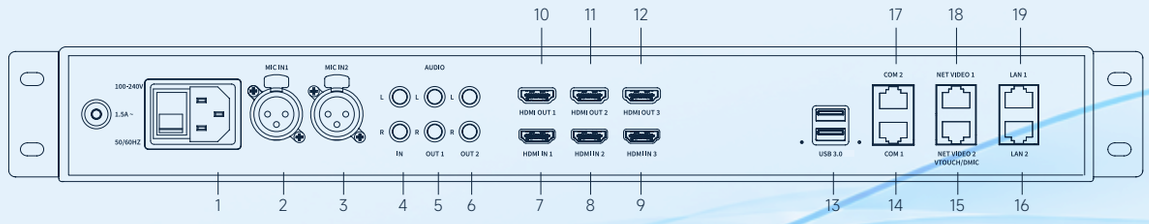
▼Bandwidth	
IP	64kbps ~ 10Mbps
Built-in MCU	EMCU
Built-in multipoint calling	1+8

▼interface	
Audio input interface (8 inputs)	2 x XLR 2 x RCA 1 x DMIC 2 x HDMI (audio input) 1 x USB
Audio output interface (7 outputs)	4 x RCA interface 2 x HDMI (audio output) 1 x USB
Video input interface (4 inputs)	3 x HDMI 1 x VIDEO NET(POE)
Video Outputs (3)	3 x HDMI
USB interface	2 x USB3.0 (supports USB flash drive, USB microphone, etc.)
Network Port	4 x RJ45: 2x10/100/1000 Base-T, TOUCH/DMIC port, VIDEO NET 2 x RS232 (supports infrared transparent transmission) 1 x Wireless: 802.11 b/g/n Wi-Fi (optional)
Accessories	OLED displays IP and registration number, AI tracking, AI noise reduction, voice to text, wireless presentation sharing, 4K three-screen differential display

▼Standards & Protocols	
Multimedia Framework	ITU-T H.323, IETF SIP
Video codec protocol	H.261, H.263, H.263+, H.263++, H.264, H.264 High Profile，H.265
audio codec protocol	G.711, G.722, G.722.1*, G.722.1C*, AAC-LD, G.726, SILK
dual stream protocol	ITU-T H.239, BFCP
Other communication protocols	H.221, H.224, H.225, H.235, H.241, H.245, H.281, H.350, H.460, T.140, DTMF
USB interface	TCP/IP, DHCP, SSH, HTTP, HTTPS with SSL/TLS, RTP, RTCP, RFC3261, RFC3264, RFC2190, RFC3407, RFC2833

▼General	
Dimensions	• Terminal size (without mounting ears): 442 (W) x 285 (D) x 58mm (H) • Net weight: 3kg
Electrical characteristics	• Working voltage: AC 100V ~ 240V • Working frequency: 50Hz/60Hz • Maximum power consumption: 80W
Environmental requirements	• Temperature: 0° C ~ 40° C (working status), -40° C ~ 70° C (non-working status) • Relative humidity: 10% ~ 80% (working status), 0% ~ 95% (non-working status)
Certifications and standards	China Telecom Network Access, CQC

Connections



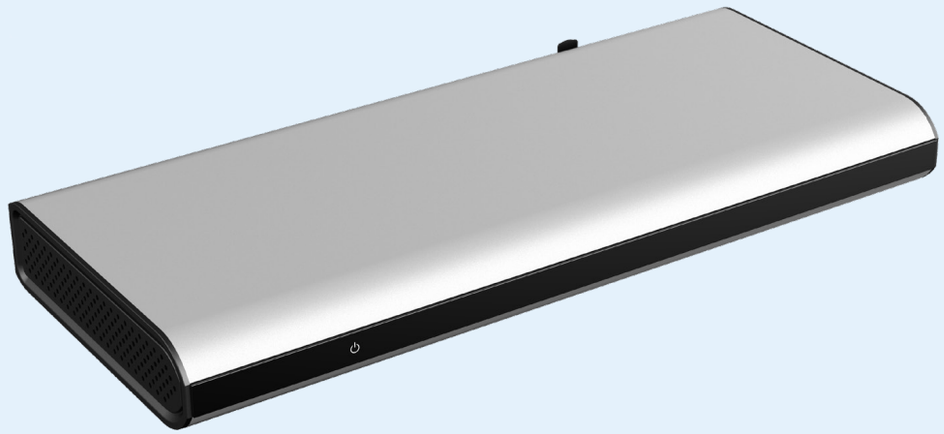
1 —— Power
2 —— MIC IN
3 —— MIC OUT
4 —— AUDIO IN
5 —— AUDIO OUT
6 —— AUDIO OUT interface
7 —— HDMI IN
8 —— HDMI IN
9 —— HDMI IN
10 —— HDMI OUT
11 —— HDMI OUT
12 —— HDMI OUT
13 —— USB 3.0 interface
14 —— COM
15 —— NET VIDEO 2 VTOUCH/DMIC
16 —— LAN 2
17 —— COM
18 —— NET VIDEO 1
19 —— LAN 1

Modular Conference Endpoint

FY200 / FY200-C

4K codec · Unified Meetings · video 4 in 2 out · Audio 6 in 4 out · Built-in MCU

This 4K UHD modular endpoint serves business and government meetings, emergency command, telemedicine and distance learning. A new-generation processor ensures smooth, stable conferencing. FY200 offers 4 video inputs, 2 video outputs, 6 audio inputs and 4 audio outputs for flexible connections and secure, reliable meetings.



Key Features

▼Unified Meetings

Supports the standard SIP&H.323 multimedia communication protocol to meet the needs of enterprises for private network conferencing; it is compatible with mainstream cloud video conferencing platforms such as Tencent Conference to quickly organize an online video conference; it is also compatible with the Division private cloud conferencing platform to flexibly meet the diverse conferencing needs of enterprises.

▼Built-in MCU (optional)

The built-in MCU multi-point control unit supports up to 8 node terminal access, meets the simple networking and fast conference needs of small and medium-sized enterprises, and simplifies system deployment and management.

▼Infrared transparent transmission

The terminal supports the serial port to receive infrared signals. When working with a specified camera model, it can receive infrared remote control signals through the camera. Even if the conference terminal is hidden in the back end, it can satisfy all terminal controls.

▼BYOM Conferencing

Supports wired and wireless BYOM functions. By connecting to the terminal through a presentation dongle, users can use their familiar computers and conference applications to hold presentation sharing meetings. It is compatible with any cloud conference platform, greatly improving the efficiency of terminal equipment utilization and adapting to multi-platform remote collaboration. The presentation sharing device also supports SIP conference presentation sharing. Seamless switching between BYOM conference and SIP conference is more convenient.

▼Remote & local recording

Supports remote lecture capture function, only one PC is needed to realize the conference lecture capture function. Supports USB storage disk recording, plug and play, meeting records are safe and confidential.

▼Bilingual audio simultaneous interpretation

Supports bilingual sound simultaneous interpretation. The terminal not only supports the simultaneous input of sounds in two different languages, and the simultaneous output of sounds in two different languages, but also supports the flexible mixing and encoding of sounds in two languages.

▼Packet-Loss Resilience

In the case of severe network packet loss, the FEC proprietary technology can be turned on. Packet loss within 20% will have no impact on the system. Conferences with 30% packet loss can still proceed normally, effectively solving the problems of network jitter and packet loss.

Specifications

▼Variants	FY200	FY200-C
Name	Ultra HD split terminal	HD split terminal
Active image resolution	• 4KP30, minimum bandwidth 2048Kpbs • 1080p, minimum bandwidth 512Kpbs	• 1080p, minimum bandwidth 512Kpbs • 720p, minimum bandwidth 384Kbps
Data content resolution	• Input: VGA (640x480), SVGA (800x600), XGA(1024x768), WXGA(1280x768), WXGA(1280x800), 1280x960, SXGA(1280x1024), 1360x768, 1366x768, 1440x900, 1600x900, 720p(1280x720), 1080p(1920x1080), 3840x2160 • Codec: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080, 3840x2160 • Output: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080, 3840x2160	• Input:VGA (640x480), SVGA (800x600), XGA(1024x768), WXGA(1280x768), WXGA (1280x800), 1280x960, SXGA(1280x1024), 1360x768, 1366x768, 1440x900, 1600x900, 720p(1280x720), 1080p(1920x1080) • Output:800x600, 1024x768, 1280x1024, 1280x720, 1920x1080
Dual flow of activities	Dual channel 4KP30	Dual channel 1080P60
network transport protocol	TCP/IP, DHCP, SSH, HTTP, HTTPS with SSL/TLS, RTP, RTCP, RFC3261, RFC3264, RFC2190, RFC3407, RFC2833, RFC4585(RTP/AVPF), SNTP, ARP	TCP/IP, DHCP, SSH, HTTP, HTTPS with SSL/TLS, RTP, RTCP, RFC3261, RFC3264, RFC2190, RFC3407, RFC2833
Accessories	OLED displays IP and registration number, AI tracking, AI noise reduction, voice to text, wireless presentation sharing, 4K dual screen dual display	OLED IP/ID, AI tracking/denoise, speech-to-text, wireless sharing, 1080P dual screen dual display

▼Standards & Protocols	
Multimedia Framework	ITU-T H.323, IETF SIP
Video codec protocol	H.261, H.263, H.263+, H.263++, H.264, H.264 High Profile, H.265
audio codec protocol	G.711, G.722, G.722.1*, G.722.1C*, AAC-LD, G.726, SILK
dual stream protocol	ITU-T H.239, BFCP
Other communication protocols	H.221, H.224, H.225, H.235, H.241, H.245, H.281, H.350, H.460, T.140, DTMF

▼Bandwidth	
IP	64kbps ~ 8Mbps

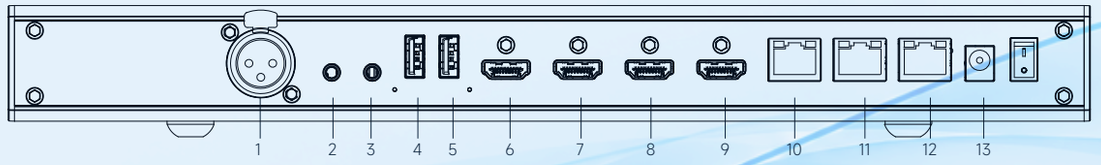
▼Video characteristics	
Other image properties	Supports PIP, POP and other display modes

▼Audio Features	
Audio Features	• Automatic Echo Cancellation (AEC) • Automatic Gain Control (AGC) • Automatic Noise Suppression (ANS) • Lip sync support

▼interface	
Audio input interface	1 x 3.5mm line input 1 x XLR microphone input 1 x RJ45 digital microphone input 1 x USB 2 x HDMI audio
Audio output interface	1 x 3.5mm Line Out 2 x HDMI Audio Out 1 x USB
Video input interface	2 x HDMI 1 x USB 1 x VIDEO (POE TOUCH port)
Video output interface	2 x HDMI (3 x HDMI optional)
USB interface	2 x USB3.0 (supports USB flash drive, USB microphone, etc.)
Network Port	2 x RJ45: 10/1000 Base-T, Touch/DMIC port 1 x Wireless: 802.11 b/g/n Wi-Fi (optional)

▼General	
Dimensions	• Terminal size: 348mm(W) × 148mm(D) × 37mm(H) • Packing size: 413mm(W) × 332mm(D) ×130mm(H) • Net weight: 1.4Kg • Gross weight: 2.2Kg
Electrical characteristics	• Operating voltage: DC 12V • Maximum power consumption: 54W
Environmental requirements	• Temperature: 0℃ ~ 40℃ (working state), -40℃ ~ 70℃ (non-working state) • Relative humidity: 10% ~ 80% (working state), 0% ~ 95% (non-working state) • Ambient noise: less than 46dBA SPL • Minimum illumination: 5lux • Recommended illumination: greater than 300lux
Certifications and standards	China Telecom network access, CQC, CE, RoHS, FCC

Connections



1 —— MIC IN
2 —— AUDIO IN
3 —— AUDIO OUT
4 —— USB
5 —— USB
6 —— HDMI OUT
7 —— HDMI OUT
8 —— HDMI IN
9 —— HDMI IN
10 —— RS232
11 —— NET
12 —— POE
13 —— DC12V

All-in-One Conference Endpoint

FY210 / FY210-C

Ultra HD quality · 12x optical zoom · Unified Conferencing · Full development API · Built-in MCU

An integrated intelligent video conferencing terminal specially designed for corporate administrative-level meetings, remote training, emergency command and other scenarios. It has a three-in-one design of 4K PTZ camera, microphone and terminal. It has simple wiring and helps users quickly build a safe and stable video conferencing environment. Supports 4K dual-screen differential display, bringing an excellent audio and video communication experience and achieving efficient remote communication and collaboration.



Key Features

▼Integrated design

The integrated design of 4K PTZ camera + microphone + conference terminal is powerful, compact, simple in wiring, and more convenient to install and deploy.

▼Unified Conferencing

Supports the standard SIP&H.323 multimedia communication protocol to meet the needs of enterprises for private network conferencing; it is compatible with mainstream cloud video conferencing platforms such as Tencent Conference to quickly organize an online video conference; it is also compatible with the Division private cloud conferencing platform to flexibly meet the diverse conferencing needs of enterprises.

▼4K codec

Equipped with an 8-core high-performance processing platform and supporting the latest H.264/H.265 video codec protocol, it can provide a remote conferencing experience of 4K30 + 4K30 dual-channel UHD video at 2Mbps bandwidth.

▼Built-in 4K camera

The built-in omnidirectional mechanical pan/tilt camera uses a high-quality 4K CMOS sensor with 8.42 MP to bring extremely clear images. The high-quality optical lens has a maximum horizontal FOV of 70° and 12× optical zoom, covering the entire conference site.

▼BYOM Conferencing

Supports wired and wireless BYOM functions. By connecting to the terminal through a presentation dongle, users can use their familiar computers and conference applications to hold presentation sharing meetings. It is compatible with any cloud conference platform, greatly improving the efficiency of terminal equipment utilization and adapting to multi-platform remote collaboration. The presentation sharing device also supports SIP conference presentation sharing. Seamless switching between BYOM conference and SIP conference is more convenient.

▼External microphone expansion

Supports a variety of audio input solutions such as external digital microphones, USB microphones, and analog microphones to adapt to the needs of different conference scenarios.

▼Remote & local recording

The terminal can push streams to authorized external devices through the network for video storage and playback. It also supports local USB storage to directly record conference videos. Plug and play makes conference recording simpler and safer.

▼bilingual simultaneous interpretation

Supports simultaneous input and output of two independent audio signals, enabling simultaneous bilingual encoding and decoding transmission to meet the needs of special conference scenarios such as simultaneous interpretation.

▼Packet-Loss Resilience

In the case of severe network packet loss, the FEC proprietary technology can be turned on. Packet loss within 20% will have no impact on the system. Conferences with 30% packet loss can still proceed normally, effectively solving the problems of network jitter and packet loss.

▼Built-in MCU (optional)

The built-in MCU multi-point control unit supports up to 8 node terminal access, meets the simple networking and fast meeting needs of small and medium-sized enterprises, improves the communication and collaboration efficiency of small meetings, and simplifies system deployment and management.

Specifications

▼Variants	FY210	FY210-C
Name	Ultra HD all-in-one terminal	HD all-in-one terminal
Active image resolution	• 4KP30, minimum bandwidth 2048Kpbs • 1080p, minimum bandwidth 512Kpbs • 720p, minimum bandwidth 384Kbps	• 1080p, minimum bandwidth 512Kpbs • 720p, minimum bandwidth 384Kbps
Data content resolution	• Input: VGA (640x480), SVGA (800x600), XGA(1024x768), WXGA(1280x768), WXGA (1280x800), 1280x960, SXGA(1280x1024), 1360x768, 1366x768, 1440x900, 1600x900, 720p(1280x720), 1080p(1920x1080), 3840x2160 • Codec: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080, 3840x2160 • Output: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080, 3840x2160	• Input:VGA (640x480), SVGA (800x600), XGA(1024x768), WXGA(1280x768), WXGA (1280x800), 1280x960, SXGA(1280x1024), 1360x768, 1366x768, 1440x900, 1600x900, 720p(1280x720), 1080p(1920x1080) • Output:800x600, 1024x768, 1280x1024, 1280x720, 1920x1080
Dual flow of activities	4KP30+4KP30	Dual channel 1080P60
network transport protocol	TCP/IP, DHCP, SSH, HTTP, HTTPS with SSL/TLS, RTP, RTCP, RFC3261, RFC3264, RFC2190, RFC3407, RFC2833, RFC4585(RTP/AVPF), SNTP, ARP	TCP/IP, DHCP, SSH, HTTP, HTTPS with SSL/TLS, RTP, RTCP, RFC3261, RFC3264, RFC2190, RFC3407, RFC2833
Accessories	AI denoise, STT, wireless sharing, dual 4K	AI noise reduction, voice to text, wireless presentation sharing, 1080P dual screen dual display

▼Video characteristics	
Other image properties	Supports PIP, POP and other display modes

▼Standards & Protocols	
Multimedia Framework	ITU-T H.323, IETF SIP
Video codec protocol	H.261, H.263, H.263+, H.263++, H.264, H.264 High Profile, H.265
audio codec protocol	G.711, G.722, G.722.1*, G.722.1C*, AAC-LD, G.726, SILK
dual stream protocol	ITU-T H.239, BFCP
Other communication protocols	H.221, H.224, H.225, H.235, H.241, H.245, H.281, H.350, H.460, T.140, DTMF

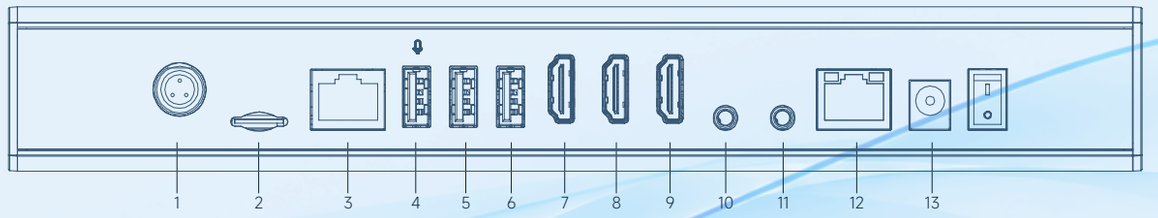
▼Audio Features	
Audio Features	• Automatic Echo Cancellation (AEC) • Automatic Gain Control (AGC) • Automatic Noise Suppression (ANS) • Lip sync support

▼Bandwidth	
IP	64kbps ~ 8Mbps
Built-in multipoint calling	1+8 EMCU

▼interface	
Audio input interface (5 inputs)	1 x microphone input (mini XLR interface), supports phantom power supply 1 x 3.5mm line input 1 x USB 3.0 1 x HDMI embedded audio input 1 x DMIC
Audio Outputs (4)	1 x 3.5mm linear output, 2 x HDMI audio output, 1 x USB
Video input interface (4 inputs)	1 x 12x optical zoom 4K PTZ camera 1 x HDMI 1 x USB 1 x VIDEO (POE TOUCH port)
Video output interface (2 out)	2 x HDMI
USB interface	2 x USB3.0 (supports USB flash drive, USB microphone, etc.)
Network Port	2 x RJ45: 10/100/1000 Base-T, Touch/DMIC port 1 x Wireless: 802.11 b/g/n Wi-Fi (optional)

▼General characteristics	
Dimensions	• Terminal dimensions (excluding protruding parts): 258mm (W) × 146mm (D) × 170mm (H) • Net weight: 2.0kg
Electrical characteristics	• Operating voltage: DC 12V • Maximum power consumption: 54W
Environmental requirements	• Temperature: 0° C ~ 40° C (working state), -40° C ~ 70° C (non-working state) • Relative humidity: 10% ~ 80% (working state), 0% ~ 95% (non-working state) • Ambient noise: less than 46dBA SPL • Minimum illumination: 5lux • Recommended illumination: greater than 300lux
Certifications and standards	China Telecom network access, CQC, CE, RoHS, FCC

Connections



1 —— mini XLR
2 —— TF
3 —— RJ45
4 —— USB
5 —— USB
6 —— USB
7 —— HDMI OUT 1
8 —— HDMI OUT 2
9 —— HDMI IN
10 —— LINE IN
11 —— LINE OUT
12 —— NET
13 —— DC 12V interface

UHD All-in-One Android Endpoint

FY631 Pro

4K codec · Powerful CPU · video 4 in 2 out · Audio 5 in 4 out · Open API

An integrated HD video conferencing terminal specially designed for corporate meetings, administrative meetings, emergency command, telemedicine and team collaboration scenarios. The camera and conference terminal are two-in-one, making installation and deployment simpler and more convenient. The original Android operating system and ultra-high computing power CPU bring 1080P or 4K video encoding and decoding capabilities to create a high-quality remote conferencing experience.



Key Features

▼High performance open platform

Android 12 operating system, equipped with 4-core A76 + 4-core A55 CPU, 6TOPs AI NPU, the system runs stably, supports in-depth customized development for video applications, and provides complete development documents and SDK.

▼ultra wide angle lens

Equipped with a 4K UHD camera, it adopts a 70° high-quality wide-angle lens and supports 12x optical zoom. With a large-range rotating mechanical pan/tilt, the shooting range covers the entire conference space.

▼Super powerful video decoding

Support H.265/H.264/AV1/VP9/AVS2 video decoding, up to 8K60fps.

▼Support dual-screen differential display

Supports simultaneous input of dual 4K video streams (1 × built-in MIPI, 1 × HDMI); supports simultaneous output of dual 4K video streams (2 × HDMI), and supports dual-screen differential display.

▼Built-in audio processing algorithms

It has built-in audio 3A processing algorithms such as automatic gain control, automatic echo cancellation, and automatic noise suppression, and supports multiple audio input and output, effectively suppressing environmental noise and noise.

▼Fanless design

Metal shell material, excellent heat dissipation performance, fanless design, stable operation and low noise, ensuring long-term reliable operation at high frequency.

Specifications

▼Specifications

operating system	Android 12
Processor (CPU) RAM	4 × Cortex-A76 + 4 × Cortex-A55
	4GB
ROM	16GB EMMC (optional 32GB)

▼Video characteristics

video encoding	Support H.264/H.265 video encoding, up to 8K30FPS
video decoding	Support H.265/H.264/AV1/VP9/AVS2 video decoding, up to 8K60fps
Built-in camera	• 4K30fps • Sensor: 8.51 MP, 1/2.5-inch CMOS • Maximum horizontal FOV: 70° • Lens: 12× optical zoom • PTZ: horizontal +/-170°, vertical -30 ~ +30° • Supports automatic white balance, automatic exposure, automatic focus • Supports mirroring/reversal
Active image resolution	• 4KP30, minimum bandwidth 2048Kpbs • 1080p, minimum bandwidth 512Kpbs • 720p, minimum bandwidth 384Kbps
Other image properties	Dual screen display

▼Audio Features

Audio Features	Automatic gain control Automatic echo cancellation Automatic noise suppression Automatic lip sync

▼Network Features

Network Port	1 × RJ45: 10/100/1000 Base-T 1 × RJ45: 10/100/1000 Base-T supports 25W PSE
wireless connection	1 × Wi-Fi，802.11a/b/g/n/ac 1 × BT5.2

▼interface

Audio input interface (5 inputs)	1 × microphone input (mini XLR interface), supports phantom power supply 1 × 3.5mm line input 1 × USB 3.0 1 × HDMI embedded audio input 1 × DMIC
Audio Outputs (4)	1 × 3.5mm linear output 2 × HDMI audio output 1 × USB
Video input interface (4 inputs)	1 × Built-in HD camera 1 × HDMI input, HDMI 2.0 1 × USB 1 × PoE
Video output interface (2 out)	2 × HDMI output
Power Input	1 × DC 12V power interface
indicator light	1 × two-color indicator light
Infrared interface	1 × infrared interface

▼General

Dimensions	• Terminal dimensions (excluding protruding parts): 258mm (W) × 146mm (D) × 170mm (H)
Electrical characteristics	• Operating voltage: DC 12V • Maximum power consumption: 36W
Environmental requirements	• Temperature: 0° C ~ 40° C (working status), -40° C ~ 70° C (non-working status) • Relative humidity: 10% ~ 80% (working status), 0% ~ 95% (non-working status)
Certifications and standards	CQC、FCC、CE、ROHS

Connections



1 —— mini XLR
2 —— TF
3 —— DMIC
4 —— USB
5 —— USB
6 —— USB
7 —— HDMI OUT
8 —— HDMI OUT
9 —— HDMI IN
10 —— LINE IN
11 —— LINE OUT
12 —— NET
13 —— DC 12V

UHD Modular Android Endpoint

FY632 Pro

4K codec | Powerful CPU | video 4 in 2 out | Audio 4 in 4 out | Open API

A split-type HD video conferencing terminal specially built for various conference scenarios such as government-enterprise meetings, emergency command, telemedicine, and distance education. Based on the powerful computing power of the new generation processor, it can provide a strong guarantee for the smooth and stable operation of the video conferencing system. Rich audio and video input and output interfaces can meet the application needs of more conference scenarios.



Key Features

▼High performance open platform

Uses Android operating system, equipped with 4-core A76 + 4-core A55 high-performance CPU, 6TOPs AI NPU, and powerful audio and video hardware encoding, decoding and signal processing capabilities, bringing a more stable and smooth conference collaboration experience.

▼Dual-channel 4K video

Supports 2 × of 4K video signal encoding and decoding, supports 2 × of 4K video streams output at the same time, meets the needs of dual video stream collection, and expands conference application scenarios.

▼Dual screen display

Supports 2 × of HDMI video signal output, which can display conference images and shared images such as documents, videos, pictures, etc., making the content presentation richer.

▼Audio automatic processing

Built-in audio processing algorithms such as AGC, AEC, and ANC provide full-duplex audio processing services for audio peripherals and output clear and natural sound quality.

▼Comprehensive I/O

Supports USB3.0, HDMI, RJ45, LINE and other interfaces to meet the diverse needs of various conference scenarios.

▼Fully open API

Fully open API supports the development of third-party applications, making it easy for customers to develop secondary applications to meet customization needs.

Specifications

▼Specifications

operating system	Android 12
Processor (CPU)	4 × Cortex-A76 + 4 × Cortex-A55
RAM	4GB
ROM	16GB EMMC (optional 32GB)

▼Video characteristics

video encoding	Support H.264/H.265 video encoding, up to 8K30FPS
video decoding	Support H.265/H.264/AV1/VP9/AVS2 video decoding, up to 8K60fps
Active image resolution	• 4KP30, minimum bandwidth 2048Kpbs • 1080p, minimum bandwidth 512Kpbs • 720p, minimum bandwidth 384Kbps
Other image properties	Dual screen display

▼Audio Features

Audio Features	Automatic gain control Automatic echo cancellation Automatic noise suppression Automatic lip sync

▼Network Features

Network Port	1 × RJ45: 10/100/1000 Base-T 1 × RJ45: 10/100/1000 Base-T supports 25W PSE
wireless connection	1 × Wi-Fi，802.11a/b/g/n/ac/ax 1 × BT5.2

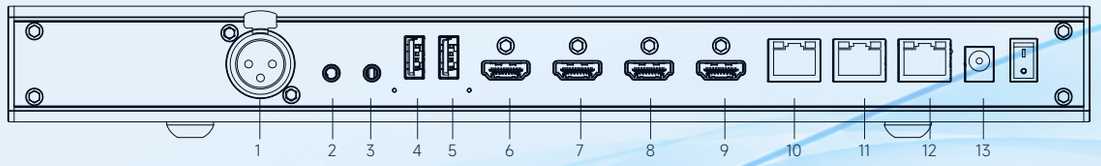
▼interface

Audio input interface (4 inputs)	1 × mini XLR microphone input 1 × 3.5mm linear input 1 × HDMI embedded audio input 1 × USB3.0
Audio Outputs (4)	1 × 3.5mm linear output 2 × HDMI embedded audio output 1 × USB3.0
Video input interface (4 inputs)	2 × HDMI input 1 × USB input 1 × RJ45 input
Video output interface (2 out)	2 × HDMI output
Power Input	1 × DC 12V power interface
indicator light	1 × two-color indicator light
Infrared interface	1 × infrared interface

▼General

Dimensions	Terminal dimensions (excluding protruding parts): 348mm (W) × 148mm (D) × 37mm (H)
Electrical characteristics	Working voltage: DC 12V Maximum power consumption: 36W
Environmental requirements	Temperature: 0° C ~ 40° C (working state), -40° C ~ 70° C (non-working state) Relative humidity: 10% ~ 80% (working state), 0% ~ 95% (non-working state)
Certifications and standards	CQC、FCC、CE、ROHS

Connections



1 —— MIC IN
2 —— AUDIO IN
3 —— AUDIO OUT
4 —— USB
5 —— USB
6 —— HDMI OUT
7 —— HDMI OUT
8 —— HDMI IN
9 —— HDMI IN
10 —— RS232
11 —— NET
12 —— POE
13 —— DC12V

UHD All-in-One Android Endpoint

FY730 Pro

4-in-1 · Powerful CPU · Video 3 in 3 out · Audio 5 in 5 out · AI algorithm

An integrated video conferencing terminal specially designed for corporate business meetings, remote teaching, telemedicine and other scenarios. It integrates an UHD camera, microphone, speaker and conference terminal into a four-in-one design. It only needs to connect two lines to build a video conferencing environment, achieve high-quality remote communication and collaboration, and effectively promote team collaboration and communication.



Key Features

All-in-one integration

The four-in-one design of UHD camera, array microphone, full-range speaker and Android conference terminal effectively reduces the difficulty of wiring and installation.

Super computing power

Android 12.0 operating system, equipped with 4-core A76+4-core A55, 6 TOPS super computing power NPU.

Super decoding

Support H.265/H.264/AV1/VP9/AVS2 video decoding, up to 8K60fps; support H.264/H.265 video encoding, up to 8K30fps.

BYOM Conferencing

Supports wired and wireless BYOM functions. By connecting to the terminal through a presentation dongle, users can use their familiar computers and conference applications to hold presentation sharing meetings. It is compatible with any cloud conference platform, greatly improving the efficiency of terminal equipment utilization and adapting to multi-platform remote collaboration. The presentation sharing device also supports SIP conference presentation sharing. Seamless switching between BYOM conference and SIP conference is more convenient.

AI algorithm

The built-in AI automatic frame selection algorithm can identify the positions of participants and automatically adjust the camera angle to obtain the best view. At the same time, the built-in AI sound source tracking algorithm can quickly locate the speaker through sound positioning and focus on close-ups.

Dual screen display

Supports two channels of HD video output and can be connected to two large-screen display devices at the same time. It can not only display conference images but also share pictures, videos and documents, improving the conference experience.

One machine for two purposes

It can be used as an Android video conferencing terminal or as an integrated audio and video USB camera connected to a PC for use as a peripheral, with rich application scenarios.

Fully open API

Fully open API supports the development of third-party applications, making it easy for customers to develop secondary applications to meet customization needs.

Specifications

system operating system

Android 12	
Processor (CPU)	4 × Cortex-A76@2.4GHz + 4 × Cortex-A55@1.8GHz
RAM	4GB
ROM	16GB EMMC (optional 32GB)

Video characteristics

video encoding	Support H.264/H.265 video encoding, up to 8K30FPS
video decoding	Support H.265/H.264/AV1/VP9/AVS2 video decoding, up to 8K60fps
Active image resolution	• 4KP30, minimum bandwidth 2048Kpbs • 1080p, minimum bandwidth 512Kpbs • 720p, minimum bandwidth 384Kbps
Built-in camera	Sensor: 1/2.5-inch CMOS, effective pixels 8.51MP, field of view: DFOV: 121°, HFOV: 110° 5× digital zoom Pan/tilt: mechanical pan/tilt: ±15°; electronic pan/tilt Backlight compensation: supported Digital noise reduction: 2D, 3D digital noise reduction Signal-to-noise ratio: ≥55dB
AI enhancement (optional)	Sound source localization automatic frame selection
Other image properties	Dual screen display

Audio Features

Audio Features	Automatic gain control Automatic echo cancellation Automatic noise suppression Automatic lip sync

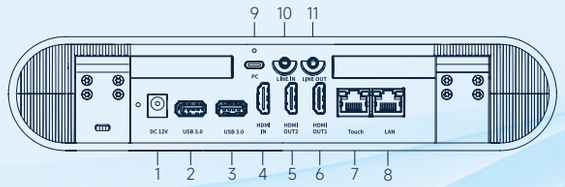
interface

Audio input (5 inputs)	1 × built-in 4-mic array; 6m pickup 1 × USB 1 × HDMI embedded audio input 1 × 3.5mm line input 1 × DMIC
Audio output (5 out)	1 × built-in speaker (SPL 96dB@0.5m) 1 × USB 2 × HDMI embedded audio output 1 × 3.5mm linear output
Video input (3 inputs)	1 × built-in camera 1 × HDMI input, supports HDMI 2.0, maximum resolution 4K30fps 1 × USB
Video output (3 out)	2 × HDMI OUT output, supports HDMI 2.1, maximum resolution 4K60fps 1 x USB3.0 Type-C (used in USB peripheral mode)
USB interface	1 × USB 3.0 Type-A Host 1 × USB 3.0 Type-A OTG 1 × USB 3.0 Type-C (for connecting to PC as a camera and SpeakerPhone)
Power Input	1 × DC 12V/3A power interface
Network Port	1 × RJ45, 10M/100M/1000M Base-T 1 × RJ45, 10M/100M Base-T, supports 15W PSE
wireless connection	1 × WiFi (dual-band 2.4G&5.8G), 802.11a/b/g/n/ac (optional)

General

Dimensions	• Terminal size: 601mm (W) × 141mm (D) × 115mm (H) (including bracket)
Electrical characteristics	• Operating voltage: DC 12V • Maximum power consumption: 36W
Environmental requirements	• Temperature: 0° C ~ 40° C (working status), -40° C ~ 70° C (non-working status) • Relative humidity: 10% ~ 80% (working status), 0% ~ 95% (non-working status)
Certifications and standards	CQC、FCC、CE、ROHS

Connections



1 —— DC 12V
2 —— USB3.0
3 —— USB3.0
4 —— HDMI IN
5 —— HDMI OUT1
6 —— HDMI OUT2
7 —— Touch
8 —— LAN
9 —— Type-C
10 —— LINE IN
11 —— LINE OUT

Desktop Video Endpoint

DT100

five-in-one | 10.1-inch touch screen | 1080P camera | Open API | External HDMI

A desktop video conferencing terminal specially designed for corporate executives and leadership office scenarios. It integrates functions such as telephone, cloud video conferencing, private network security conferencing, whiteboard collaboration, and private calls to fully meet the diverse needs of leadership office scenarios and create a professional and exclusive conference communication and collaboration experience.



Key Features

▼Convenient touch operation

Uses a 10.1-inch HD IPS display and 10-point touch operation, which is simple and convenient.

▼HD video quality

Equipped with a 1/2.8-inch high-quality CMOS sensor and a 90° wide-angle lens, bringing 1080P HD image quality.

▼Rich conference modes

Supports quick initiation of instant meetings, scheduled meetings, meeting schedules, corporate address books, meeting invitations, etc. Supports speaker mode, carousel mode, voice activation mode, fixed multi-screen mode and other meeting modes to meet the needs of more scenarios.

▼Second camera input

Two USB interfaces can connect two cameras, enabling seamless switching at any time during meetings, presenting richer meeting scenes and content.

▼Various external displays

It can be connected to a PC through the HDMI input interface, or connected to various display devices such as monitors, commercial large screens, spliced large screens, etc. through the HDMI output interface to display local images or local/remote presentation images on the same screen.

▼Standard protocol integration

Supports standard SIP and H.323 protocols, and is compatible with mainstream standard terminals and network-side devices in the industry.

Specifications

▼Video characteristics

touch screen	10.1-inch IPS touch screen, supports 10-point touch Resolution: 1280 × 800 Viewing angle: 170 degrees
1080P USB camera	Sensor: 1/2.8 inch, CMOS, maximum pixels 2.07 million Scanning method: progressive Lens: Focal length: f=2.8mm, horizontal FOV: 90°, vertical FOV 53° Minimum illumination: 0.5 Lux @ (F1.8, AGC ON) Electronic shutter: 1/30s ~ 1/10000s USB video communication protocol: UVC 1.1
Active image resolution	• 1080p, minimum bandwidth 512Kpbs • 720p, minimum bandwidth 384Kbps
Data content resolution	• Input: VGA (640x480), SVGA (800x600), XGA(1024x768), WXGA(1280x768), WXGA (1280x800), 1280x960, SXGA(1280x1024), 1360x768, 1366x768, 1440x900, 1600x900, 720p(1280x720), 1080p(1920x1080) • Output: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080
Dual flow of activities	Dual channel 1080P30
Other features	Supports PIP, POP and other display modes

▼interface

USB interface	2 × USB2.0 Type-C (host)
HDMI input	1 × HDMI IN
HDMI output	1 × HDMI OUT
Network Port	2 × RJ45: 10/100/1000 Base-T 1 × Wi-Fi
handle interface	1 × RJ9
Power Input	1 × DC12V

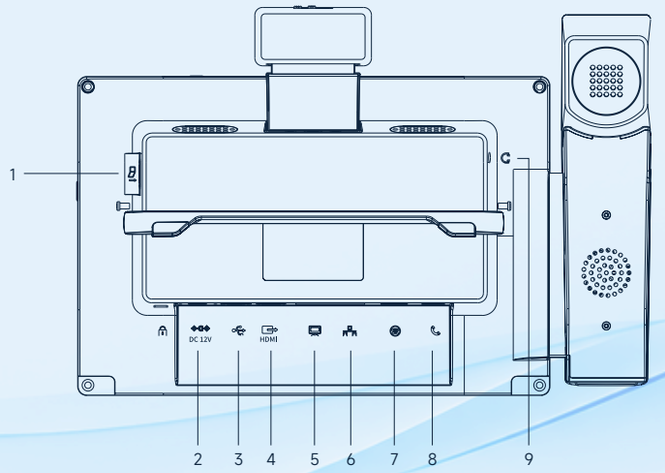
▼Audio Features

Audio Features	• Automatic Echo Cancellation (AEC) • Automatic Gain Control (AGC) • Automatic Noise Suppression (ANS) • Flexible Audio Routing (FAR)

▼General

Dimensions	295mm (W) × 195mm (D) × 63mm (H)
speaker	1 × 3W
Built-in Mic	2 mic pickup 3M
Environmental requirements	• Temperature: 0°C ~ 40°C (working state), -40°C ~ 70°C (non-working state) • Relative humidity: 10% ~ 80% (working state), 0% ~ 95% (non-working state) • Ambient noise: less than 46dBA SPL
Certifications and standards	China Telecom Network Access, CQC

Connections

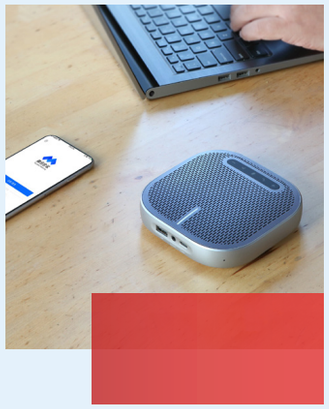


1 HDMI IN interface Power interface Type-C
2 interface HDMI OUT interface RJ45 interface
3 RJ45 interface RJ11 interface RJ9 interface
4 3.5mm interface
5
6
7
8
9

05

Audio Equipment

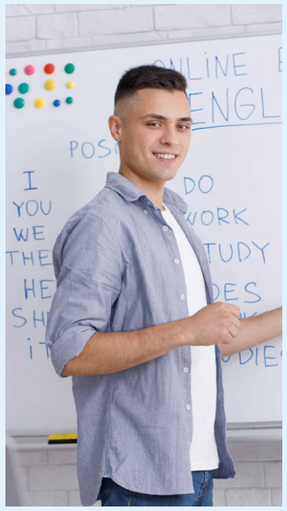
MICROPHONES











Applications

SCENES TO BE USED

Government & Cloud Meetings, Smart Teaching & Personal Work

CENTURY FARON / PROFESSIONAL AUDIO & VIDEO

Wireless Conference Speakerphone

FYA10 / FYA10W

360° omnidirectional audio pickup | 10m 10 meters pickup | AI noise reduction | Intelligent dual speakers | Hi-Fi High fidelity sound

A smart conference microphone speaker specially designed for high-end corporate business meetings. Equipped with the world's top AI audio algorithm, which comprehensively eliminates echo, background noise and voice reverberation, and outputs balanced and clear sound quality for an excellent voice call experience. Supports USB wired or wireless connection to conference hosts and other devices, plug and play; the main microphone can also be paired with two expansion microphones to flexibly cover the entire conference room.

Tencent Conference Certification | Zoom certification | Feishu Conference Certification | Kirin certification



Key Features

▼Plug and play, super compatible

FYA10:

USB2.0 connects directly to the conference host: plug and play, no driver needed;

FYA10W:

A USB dongle connects to the conference host and can be used immediately without pairing. 2.4G full-duplex wireless communication is used between the main microphone and the host, integrating FM algorithm, fast channel evaluation, retransmission + frequency hopping guarantee, signal synchronous transmission and other technologies to ensure real-time and stable transmission of two-way audio signals[1].

▼Super long distance omnidirectional audio pickup

Four high-S/N digital microphones provide 360° pickup with a 3m effective range. Connect two expansion microphones to extend effective coverage to 10m.

▼AI audio, every word is clear

AI noise reduction, echo cancellation and dereverberation suppress steady and transient meeting-room noise, including tapping, keyboards, mice, fans, air conditioners, projectors and PC cases. Clear audio makes remote conversations feel natural.

▼The volume is consistent at both distance and distance

Automatic gain control adjusts level to the speaker, ensuring consistent pickup and stable remote listening volume for efficient conversations.

▼Master Sound Effect Ultra High Fidelity

High and low frequency speakers + resonant cavity design, tuned by the industry's top sound engineers, the bass is thick, the midrange is full, the treble is thorough, and the human voice is real and natural.

▼Domestic technology leads the world

The hardware localization rate is over 98%, and its audio algorithms have ranked among the top three in world-class audio algorithm competitions such as Interspeech, IEEE L3DAS21, and ICASSP2022 AEC Challenge.

▼One-Push conference control and convenient operation

Supports common operations on the microphone, such as connecting, hanging up, volume +/-, muting, etc., making conference control more convenient.

▼Business styling metal texture

Uses an all-aluminum alloy box, which is more textured; cable management grooves and anti-slip feet are reserved at the bottom, making the installation neater and more stable, and suitable for various business meeting scenarios.

Remarks:

1. This function is only supported by FYA10W.

Specifications

▼Variants	FYA10	FYA10W
Connection method	USB2.0	Wired connection: USB2.0 Wireless connection: 2.4G wireless communication, maximum transmission distance 15m

▼meeting capabilities

Coverage area	20-100 m²
Number of participants	6-20 people

▼Microphone specifications

Microphone Type	High S/N ratio digital silicon microphone
Mic Array	Built-in six (4+2) MEMS microphones
Microphone range	360° omnidirectional audio pickup
Pickup Range	Pickup: 3m optimal, 10m effective
Sample Rate	32 KHz HD wideband audio
Effective frequency range	50Hz ~ 16kHz
S/N Ratio	68 dB(A)
Sensitivity	94 dB SPL @ 1 kHz， -35 dBFS

▼Speaker specifications

Speaker type	High and low dual-way design, professional cavity structure, top-level sound adjustment
Rated output power	15W
Effective frequency range	50Hz ~ 20kHz
Volume	89 dBA @ 1m
THD total harmonic distortion	< 3%

▼Sound quality effect

Noise Suppression	AI suppression of steady/transient noise; maximum background noise reduction: 90dB
Full duplex transmission	Full-duplex voice, supports interruption at any time
Echo Cancellation	AI algorithm eliminates echo
automatic gain	Smart gain control within 10m; clear pickup
Reverb suppression	Use AI algorithm to reduce reverberation

▼Wireless [1]

Wireless communication	2.4G wireless communication, 48K sampling rate
Wireless transmission distance	Up to 15 meters (actual measurement in office), working frequency: 50Hz/60Hz

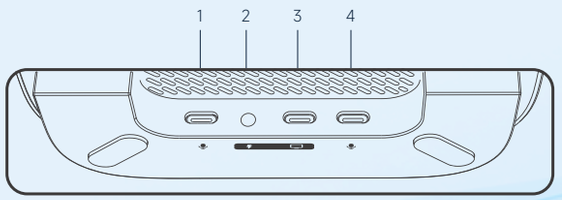
▼Hardware I/O

Power supply method	Working voltage: AC 100V ~ 240V, DC 12V Working frequency: 50Hz / 60Hz
Support system	Windows / Mac / Android / Linux
USB interface	USB 2.0 Type-C / Type-A: 1 × PC audio I/O (UAC 1.0) 2 × expansion microphone ports
indicator light	Ring-shaped indicator light strip with multiple colors to easily identify the current status of the microphone
Button	Touch the button (Volume +, Volume -, Mute, Hang Up, Dial)

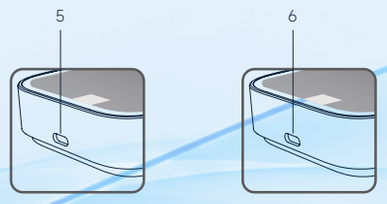
▼General

Bare metal size	Main microphone: 150mm (L) × 150mm (W) × 85mm (H) Extension microphone: 80mm (L) × 80mm (W) × 25mm (H) Wireless adapter: 93mm (L) × 28mm (W) × 13mm (H)
Packing size	297 × 248 × 125mm
Bare metal weight	Main mic: 1.24kg Extension mic: 0.13kg × 2 Wireless adapter: 0.038g
Overall machine weight	2.35kg
environmental conditions	• Temperature: 0° C ~ 40° C (working state), -40° C ~ 60° C (non-working state) • Relative humidity: 45% ~ 90% (working state), 30% ~ 90% (non-working state)

Connections



1 —— Extended microphone
2 —— Power
3 —— USB
4 —— Extended microphone



5 —— Extended microphone
6 —— Extended microphone

Daisy-Chain Array Microphone

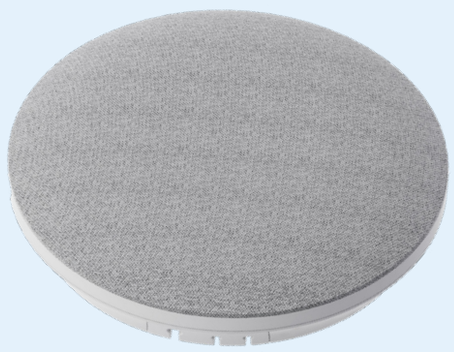
FYM702A / FYM702C

6 microphone array | Blind beamforming algorithm | Six-level cascade | *PoE* | Comprehensive I/O

The digital array microphone specially designed for business meetings, education and teaching, and other scenarios can flexibly implement 2-6 PoE cascade deployments according to the conference room space, and the pickup range evenly covers the entire space; the microphone has built-in audio 3A algorithm and blind beam forming algorithm, which effectively shields various noise echoes in the conference room, bringing a high-quality voice call experience. Optional digital audio processor integrates new generation digital audio processing technology to effectively improve sound quality from the source.



FYM702A



FYM702C

Key Features

▼digital microphone array

The high S/N ratio ring microphone array design achieves 360° omnidirectional audio pickup, allowing the speaker to move freely around the room and get rid of constraints.

▼PoE cascade pickup

The high-quality audio pickup distance is 3 meters, and PoE cascading of up to 6 microphones can be achieved. Distributed audio pickup can evenly cover medium and large conference room spaces.

▼Sound source localization technology

Equipped with blind beam forming technology, it can automatically locate the sound source position and accurately capture it. It can adapt to the sound field environment to achieve speech enhancement and better anti-interference ability.

▼Automatic audio processing algorithm

Built-in audio algorithm technologies such as automatic noise reduction suppression, echo cancellation, automatic gain, and reverberation suppression make it easy to listen in noisy environments.

▼Audio transmission with low latency

Built-in powerful audio processing unit, no need for external audio processor; ultra-low signal transmission delay, no delay in remote calls.

▼Multiple interface output

Equipped with standard USB2.0 and Aux audio interfaces, the device is plug-and-play and meets dual-mode digital and analog audio applications.

▼Various installations and flexible choices

Supports multiple installation methods such as desktop placement, ceiling mounting, and hoisting, allowing flexible and rapid deployment to reduce operation and maintenance costs.

▼Pro Audio DSP [1]

Optional embedded professional audio processor supports up to 6 daisy-chained FYM702A/ FYM702C microphones, with automatic noise suppression, gain control and echo cancellation.

Automatic equalization, smart microphone mixing, anti-reverberation and other new generation digital audio technologies can quickly and stably output clear and natural sound quality to meet the needs of various scenarios.

Remarks:

1. This feature is optional.

Specifications

▼Audio Features

Microphone Type	omnidirectional microphone
Microphone array pickup distance	Built-in six omnidirectional microphones form a ring array, 360-degree omnidirectional pickup and 3-meter clear pickup
Sensitivity	-38 dBFS
S/N Ratio	65 dB(A)
frequency response	50Hz - 16kHz
Sample Rate	32K sampling, HD wideband audio
Echo Cancellation	Yes
Noise Suppression	Yes
Gain Control	Yes

▼Hardware I/O

Network port	RJ45 uplink and downlink cascading ports
USB interface	USB audio interface (Type-C), UAC1.0 protocol, audio data communication, software upgrade and parameter configuration
Analog audio	SPKOUT, AECOUT linear audio input and output

▼General

Power supply	POE cascade 48V power supply, supports IEEE 802.3 at standard / USB 5V 500mA (single unit)
Support system	Windows / Mac / Linux
Installation method	Desktop, ceiling mounted, wall mounted
Dimensions	Φ 170 mm × H 40 mm
weight	370g
Certification	CE, ROSH, FCC, MTBF

▼Daisy-Chaining

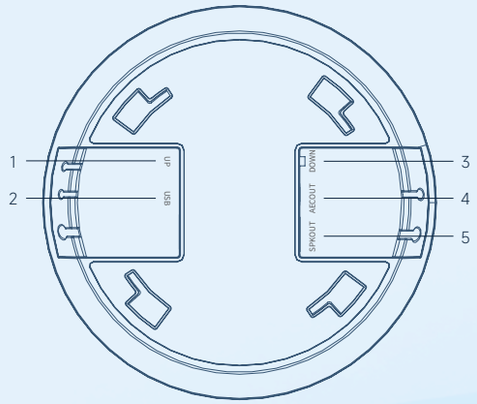
Cascade mode	PoE network cable

▼Optional Accessories

Digital audio processor B20M	
Network Port	1 × LAN uplink; 1 × DMIC downlink; up to 6 daisy-chained microphones
USB interface	1 × DEVICE: USB audio device to a host (e.g. PC); 1 × HOST: USB host to a device
Audio I/O	4 × INPUT and 4 × OUTPUT Phoenix terminals; unbalanced line-level audio
Power Input	DC 12V
Button (FYM702A)	Touch button (silent button with light indicator)
Power supply	DC 12V/3A
POE	POE 48V power supply, support IEEE802.3 AT
Dimensions	160mm (W) × 88mm (D) × 27mm (H)
weight	About 0.4Kg

Connections

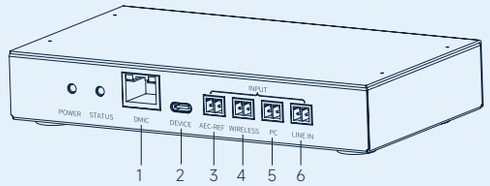
FYM702A / FYM702C:



1 —— UP
2 —— USB
3 —— DOWN
4 —— AECOUT
5 —— SPKOUT

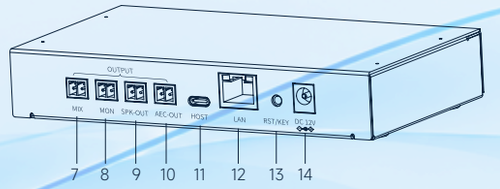
B20M:

front



1 —— DMIC interface
2 —— Type-C interface
3 —— AEC-REF interface
4 —— WIRELESS interface PC
5 —— audio input interface LINE IN interface
6 ——

back



7 —— MIX Audio Out
8 —— MON Audio Out
9 —— SPK-OUT
10 —— AEC-OUT
11 —— HOST
12 —— RJ45
13 —— RST/KEY
14 —— Power

Smart Daisy-Chain Array Microphone

FYM710T

Omnidirectional pickup | AI noise reduction | Multiple cascades | PoE Power | Flexible installation

Digital array microphones specially designed for business meetings, interactive teaching and other scenarios. There are two types of ceiling microphones and desktop microphones. Two PoE units can be deployed in cascade according to the size of the space to ensure that the audio pickup range evenly covers the entire space. Optional Tianlai digital audio processor can effectively eliminate common noise in the space and output clean, clear and balanced sound quality.

腾讯天籁 inside

Tencent Teana



Black desktop microphone



white ceiling mic

Key Features

▼Mic Array

The microphone has eight built-in high-S/N ratio digital microphones forming a ring array to achieve 360° omnidirectional audio pickup, allowing the speaker to get rid of the constraints of distance and move freely around the room in a wider range.

▼Intelligent noise reduction

Equipped with the industry-leading Teana distributed AI audio algorithm, it supports audio processing functions such as intelligent noise reduction, automatic gain, echo cancellation, automatic equalization, and intelligent de-reverberation. It is not afraid of environmental interference, and the audio pickup is clear and transparent, allowing users to hear more clearly and experience more realistic voice communication.

▼Intelligent echo cancellation

Uses clock collaborative deep learning echo cancellation technology to effectively solve multi-source and multi-path echo cancellation. The dual speech is transparent without clipping, echo leakage, and near-end voice suppression, ensuring smooth two-way communication between online and on-site participants.

▼Clear pickup range

A single unit has a clear pickup distance of 3 meters and an effective pickup distance of 6 meters. Microphones can be cascaded through PoE network cables to expand the pickup range.

▼PoE network cascading

Equipped with the B21M audio processor, it supports dual embedded chips for collaborative processing, powerful computing power, and supports the cascading of 2 microphones via POE network cables (optional supports up to 8 cascades), automatic adaptation, flexible expansion, and fast deployment.

▼Simple and flexible deployment

Supports multiple flexible installation methods such as desktop placement, bracket installation, ceiling hoisting, and ceiling-mounted installation to meet the needs of actual scene applications.

Specifications

▼Microphones

Microphone type Microphone array	Eight high-S/N digital microphones form a 360° omnidirectional pickup array
S/N Ratio	68dB
Sensitivity	-35 dB
Sample Rate	16k sample rate
Pickup Range	Pickup: 3m clear, 6m effective

▼Audio Features

audio algorithm	Tianlai Inside audio algorithms
Echo Cancellation	Yes
Noise Suppression	Yes
Gain Control	Yes

▼Hardware I/O

Network Port	RJ45 uplink and downlink cascading ports
USB interface	USB debugging interface (Type-C)
Cascade mode	PoE cascade, 2 units

▼General

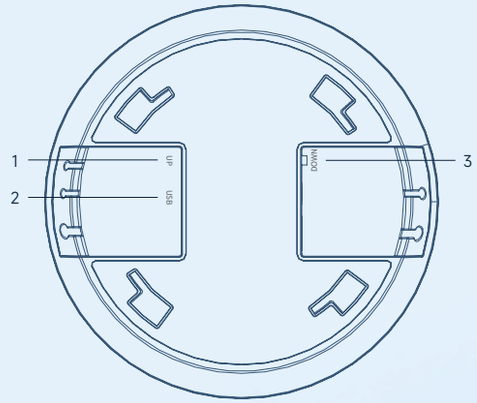
Power supply method Installation method	PoE desktop, ceiling mounted, wall mounted, ceiling mounted
Dimensions	Φ170mm × 40mm(H)
weight	360g

▼Optional Accessories

Intelligent audio processor B21M	
Network Port	1 × Upstream LAN interface; 1 × Downstream cascade digital audio DMIC interface
USB interface	1 × DEVICE interface, used as a USB audio device to connect to a USB host (such as PC) 1 × HOST interface, used as a USB host to connect to a USB device
Audio I/O	2 × INPUT Phoenix terminal interface 2 × OUTPUT Phoenix terminal interface 1 × 3.5mm analog audio input 1 × 3.5mm analog audio output
Power Input	DC 12V
Power supply	DC 12V/1A
POE	PoE 48V power supply, support IEEE802.3 AT
Dimensions	201mm (W) × 120mm (D) ×33.5mm (H) (with feet)
weight	0.72kg

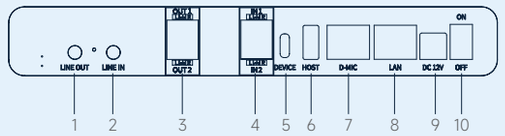
Connections

FYM710T:



1 —— UP
2 —— USB
3 —— DOWN

B21M:



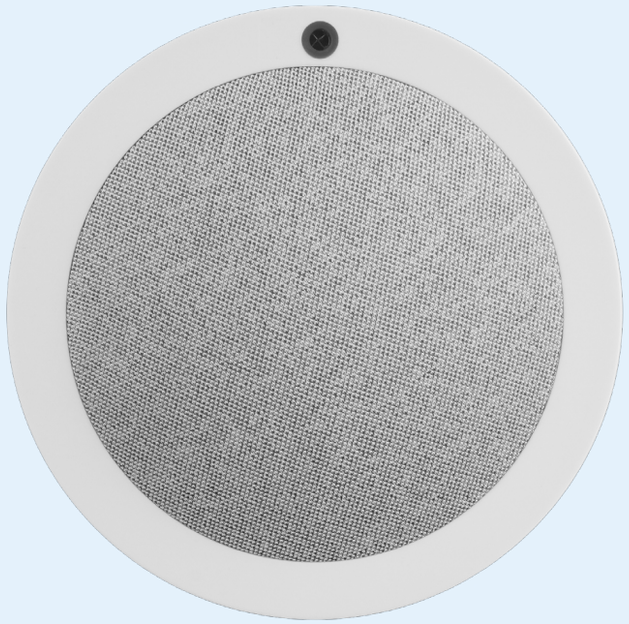
1 —— LINE OUT connector
2 —— LINE IN connector
3 —— OUT connector
4 —— IN connector
5 —— DEVICE connector
6 —— HOST interface D-MIC interface
7 —— LAN interface DC 12V interface
8 —— OFF interface & ON interface
9 ——
10 ——

Ceiling Sound Reinforcement Mic

FYM800

No contact or wearing | 3m pickup distance | Feedback suppression | Magic sound wall algorithm | Adaptive configuration-free

Designed for classrooms, this easy-to-install system combines an FYM800 hands-free microphone with digital active speakers. Built-in audio processing needs no separate processor, delivering clear, natural sound evenly throughout the room. Teachers can focus on teaching without wearing or adjusting a microphone, while students hear clearly from any seat.



Key Features

▼Hands-Free Teaching

There is no need to hold or wear audio pickup equipment, no need to charge and maintain, and it features an infrared remote control. You can control the switch and adjust the volume with one button, freeing your hands and making use more comfortable.

▼Long-distance audio pickup, free movement

The microphone has a built-in 7-unit MEMS microphone array, which achieves effective audio pickup in an 8-meter radius directional area (optimal pickup of 3 meters), and automatically shield noise interference outside the area.

▼Clear audio pickup and comfortable listening experience

Built-in audio processor, equipped with environment adaptive algorithm, feedback suppression, automatic gain algorithm, etc., automatically eliminates noise and dereverberation, and has 18ms ultra-low latency, making listening more comfortable.

▼Self-developed magic sound wall to isolate noise

Supports forming a virtual wall at the boundary of the preset pickup area of interest to pick up the sound inside the wall. The interference sound outside the wall is isolated and the suppression of interference sound outside the sound wall exceeds 30dB. The effective working distance is 2m (usually the best effect is achieved within a distance of 1m).

▼Healthy sound amplification, better than national standard

With digital active speakers, reinforcement is 6dB above the national 8dB gain standard. It meets national healthy-acoustic-environment standards and provides clear, balanced coverage throughout the classroom.

▼Simple deployment and easy maintenance

The microphone wiring is simple, powered by USB cable, and can be used by connecting the 3.5mm audio cable to the speaker. No complicated wiring installation is required, no debugging is required, and labor costs are saved.

Specifications

▼Microphones

Microphone Type	7-element MEMS microphone array
Sensitivity	-38 dBFS
S/N Ratio	65 dB(A)

▼Hardware I/O

audio output	2 x 3.5mm Spk-Out linear output
audio input	1 x 3.5mm Line-In linear input (not enabled yet)
USB interface	Support software upgrade and parameter configuration

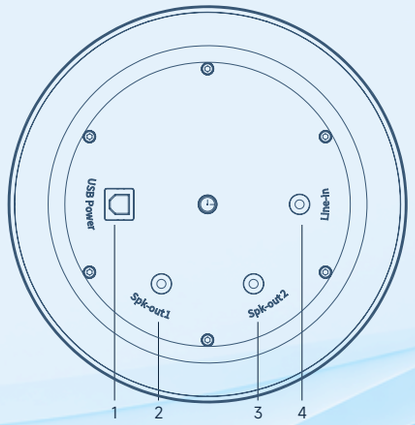
▼audio performance

frequency response	100Hz - 8kHz
Sample Rate	16K sampling, HD wideband audio
Pickup Range	Pickup: 3m clear, 8m effective
beamforming	adaptive beam
Automatic feedback suppression	Yes
automatic noise suppression	Yes
Automatic Gain Control	Yes
Auto Dereverberation	Yes

▼General

Power supply	USB 5V Power
Dimensions	Φ 155.9mm x H 38.2mm

Connections



1 —— USB Power
2 —— Spk-out
3 —— Spk-out
4 —— LINE IN

Ceiling All-in-One Audio System

FYM800 Pro

Inductionless sound reinforcement | Magic sound wall | Sound and image in position | Ultra-low latency | five-in-one

FYM800 Pro integrates a microphone, audio processor, amplifier, speakers and ceiling mount for far-field pickup and local sound reinforcement.

With five-in-one integration, the speaker (teacher) does not need to hold or wear any audio pickup equipment. It realizes directional audio pickup and local synchronous sound amplification in the speech area. Equipped with an ultra-low-latency audio processing algorithm, and the audio pickup is clear and balanced. Both the speaker and the audience can have a friendly and natural communication experience.



Key Features

▼Five-in-one highly integrated

An array microphone, audio processor, amplifier, speakers and adjustable ceiling mount form one integrated system. No extra classroom equipment or complex cabling is needed, simplifying use and maintenance.

▼One-line connection for easy installation

The whole machine only needs to be connected to a PoE network cable to work normally. It integrates an adjustable boom and can adapt to various classroom installation environments to achieve quick deployment.

▼Free your hands and focus on teaching

Teachers can move freely around the lectern without wearing a microphone, keeping hands free and attention on teaching. Reduced contact with shared devices supports a healthier teaching environment.

▼Consistent sound and image to protect hearing

The integrated design of the microphone and speaker keeps the sound amplification direction consistent with the teacher's position. Students will not have brain fatigue caused by the misalignment of vision and hearing, and they will still be comfortable listening for a long time. The suspended speakers are placed away from the students in the front row, effectively protecting students' hearing.

▼Gold-plated diaphragm, excellent sound quality

Seven gold-plated, large-diaphragm condenser microphones form a beamforming digital array. High sensitivity, low noise and wide frequency response capture detailed, full-bodied recording-quality audio.

▼Area sound insulation automatic noise reduction

Intelligent "Magic Sound Wall" technology supports setting the boundary of the audio pickup area to form a virtual soundproof wall, clearly picking up sounds within the boundary, and effectively shielding the noise outside the boundary; the built-in audio processing unit incorporates the audio 3A processing algorithm to automatically suppress noise, echo and reverberation, ensuring clear delivery of lectures even in noisy and harsh acoustic environments.

▼Professional sound reinforcement, true restoration

Built-in high-power two-channel speakers and high-performance digital amplifier, professional acoustic cavity design, fine EQ tuning, rich bass, full midrange, and thorough treble, the vocal performance is clear and natural, students' hearing is protected, and they can clearly listen to the teaching content even if they are in the back row.

▼Ultra-low latency, synchronous listening

Uses a unique adaptive fast convergence algorithm to achieve ultra-low processing delay, combined with the ability to restore the same position of audio and video, so that teachers can clearly feel the effect of their own voice amplification without delay, without having to speak hard, and effectively protect their voices.

▼Voice guidance wireless control

The included IR remote switches reinforcement on/off and adjusts volume at a touch. Synchronized voice prompts offer selectable male and female voices for easy control.

▼Network management, easy operation and maintenance

Management, upgrade and maintenance can be carried out through the network, which solves the problems of equipment management such as the issuance/recycling/charging/loss/repair of existing contact equipment, and greatly reduces operation and maintenance costs.

Specifications

▼Microphones

Microphone Type	7-unit gold-plated large-diaphragm condenser microphone digital array, adaptive beamforming technology
Pickup range	Clear pickup: 1–3m; zoned pickup control
frequency response	100Hz - 8kHz
Sensitivity	-36 dBFS
S/N Ratio	66 dB(A)
Sample Rate	16KHz, HD wideband audio

▼Speaker

Drive type	2 × full-range drivers with bass-enhanced enclosure
Rated power/impedance	2 × 8W/8Ω (maximum power 10W)
frequency response	175Hz-20kHz (-10dB)
Sensitivity	85±3dB@1M/1W
Total harmonic distortion (THD)	180Hz-10kHz < 3%

▼Audio processing features

Feedback Control (AFC)	Yes
Noise Suppression (ANS)	Yes
Gain Control (AGC)	Yes
Automatic reverb suppression (De-reverb)	Yes

▼Network Features

Network protocol version	IPv4
Network protocol support	TCP/IP, SSH, ARP

▼Inputs / Outputs

USB	1 × USB 2.0 Type-B (DEVICE interface), connects to PC host, supports software upgrade and parameter configuration 1 × USB 2.0 Type-C (HOST interface), expands USB devices (reserved)
Analog audio	1 × Line out (3.5mm TRS interface), expand external active speakers (reserved)
wired network	1 × RJ45: 10/100 Base-T, supports PoE power receiving (IEEE802.3 at), remote management

▼Installation method

Installation method	Integrated retractable lifting bracket supports ceiling lifting
Security protection	Steel wire safety rope is wear-resistant, durable, mildew-resistant, acid-alkali-resistant, simple and lightweight. Safer to install and use, preventing accidental falling off

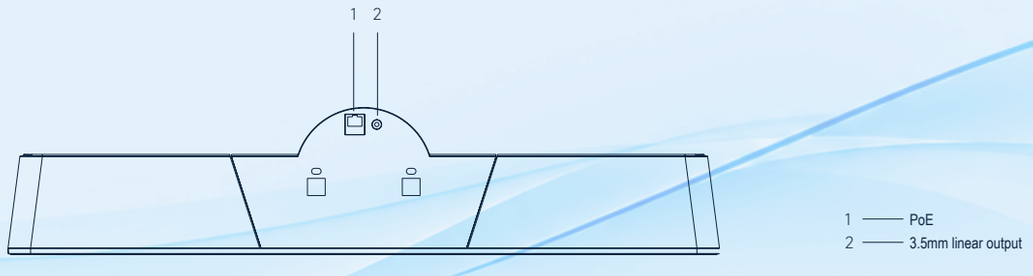
▼Packaging contents

Host	1 × hands-free all-in-one audio unit, with mic and mounting rod
network cable	1 × RJ45 network cable, 5 meters
Install accessories	1 × Telescopic bracket 1 × Expansion bolts and screws (set) 1 × Remote control Back-mounted bracket 1 × Suspension safety rope
remote control	1 × infrared remote control

▼General

Power supply	48V/0.5A PoE power adapter
Power (Avg./Max.)	18W/24W
Working/storage temperature	0°C ~ 40°C /-40°C ~ 60°C
Working/storage humidity	10 to 95%
Bare metal size	• Main unit (excluding microphone, telescopic ceiling bracket and microphone connecting rod): 600mm (W) × 127mm (D) × 81mm (H); • Microphone: 136mm (Φ) × 40mm (H); • Microphone connecting rod: 15mm (Φ) × 650mm (L); • Telescopic ceiling bracket: 35mm (Φ) × 600 ~ 1150mm(L)
Bare metal weight	3031g

Connections



06

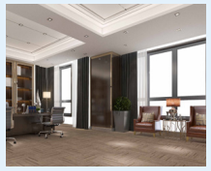
Accessories

OTHERS

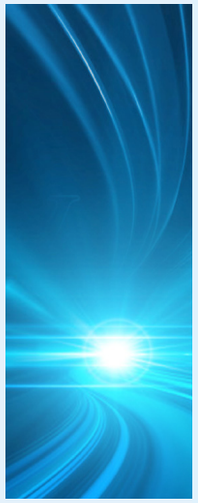
















Applications

SCENES TO BE USED

Video conferencing, conference control, electronic house number, video guide, audio and video conversion

CENTURY FARON / PROFESSIONAL AUDIO & VIDEO

Room Scheduling & Control Panel

FYCP100L

10" touch screen | 6 core SoC | One machine for two purposes | LED light strip | POE power supply

Designed specifically to meet the needs of efficient collaboration in conference rooms, it can be used as a dual-use machine. It can be used as a conference room schedule display door number, clearly showing the current conference room status, guiding participants to quickly enter, and avoiding interference with other meetings. It can also be used as a desktop conference control screen in the conference room, managing the conference process with one touch, ensuring that the conference process is focused and efficient. Adapt to a variety of installation environments to create an intelligent and smooth remote collaboration experience.





Key Features

▼Full HD touch screen

10.1-inch IPS full HD ultra-large touch screen, six-core processor, clearer picture and smoother control.

▼Conference status displayed in real time

The protruding design of three-color light strips on both sides can simultaneously display the free/reserved/occupied status of the conference room in real time. It has highly legible visual prompts and can quickly confirm the usage status of the conference room without approaching. Users can find free conference rooms more quickly, effectively avoiding usage conflicts.

▼Remote power and management

Supports PoE remote power supply and network connection, making wiring simple and convenient.

▼Multi-platform compatible

Based on the user's actual scenario needs, you can choose to pre-install apps such as Tencent Meeting, DingTalk Meeting, Feishu Meeting Room Controller or Feishu Meeting Room Sign-in Board, Zoom Rooms Controller, etc., to achieve seamless integration with the cloud meeting management platform, effectively improving meeting management efficiency and sign-in experience.

▼Diverse installation methods

An optional quick-detachable wall bracket or desktop base with cable storage and organization functions is available, which is suitable for wall-mounting on ordinary walls, glass walls, door frames and window frames, and desktop placement, making it convenient for IT management.

Specifications

▼display screen size

	10.1 inches
Screen type resolution	IPS multi-touch screen 1920 x 1200
brightness	250cd/ m² (typ)
display ratio	16:10
Viewing angle	170°

▼Hardware platform

Processor	Six cores, 4 x Cortex A73 + 2 x Cortex A53
memory	4GB
flash memory	16GB
image processor	ARM G52 MP4
operating system	Android 9.0
Speaker	1 x 1.2W
Microphones	Built-in
Status light strip	Built-in double side indicator light strip

▼Network Features

Wi-Fi	IEEE802.11a/b/g/n/ac，WPA，WPA2
Ethernet	10/100 MBaseT
POE power supply	Yes

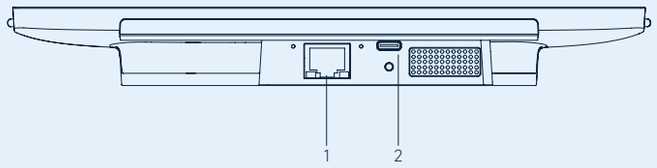
▼interface

USB	1 × USB2.0 Type-C (power and data)
RJ45	1 x RJ45（PoE）: 10/100 Base-T

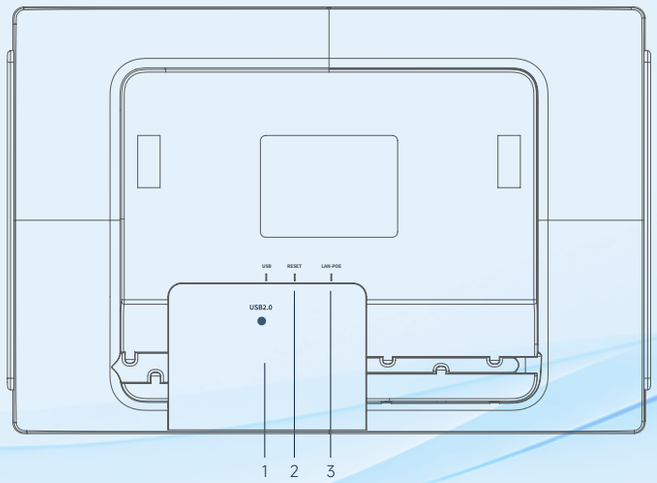
▼General

Input Voltage	DC 5V / PoE(802.3af)
Input Current	3.0A
Operating Temp.	0° C ~ 40° C
Storage Temp.	-40° C ~ 60° C
Operating Humidity	10% ~ 80%
Storage humidity	0% ~ 95%
Power Consumption	12W
mean time between failures	>30000 hours
Dimensions	242mm (W) × 162mm (D) × 29mm (H)
Net Weight	800g

Connections



1 —— LAN POE interface USB interface
2 ——



1 —— USB
2 —— RESET
3 —— LAN POE

Camera Controller

FY70

7" touch screen | 4D joystick | AI knob | 4-way HD images real time display | HDMI 4K output | PoE+

FY70 combines a high-performance processor and 7-inch HD touchscreen for broadcasting, business meetings, smart education and telemedicine. View four live video streams and control a camera precisely. Manage up to 254 devices, adjust AI functions visually and monitor live Tally status for simple, accurate and efficient professional production.



Key Features

▼HD touch screen visual operation

Equipped with a 7-inch HD touch screen, it supports 1 main image + 3 small images for real-time display on the same screen, easily meeting the needs of multi-camera collaborative shooting, avoiding missing key images, and making important live broadcasts or conference schedules clear at a glance.

▼254 devices under unified control

It can manage up to 254 cameras at the same time, supports grouped and classified storage and management, and realizes unified scheduling and collaborative shooting of multiple cameras and multiple scenes, saving early debugging time and labor costs.

▼AI function visual call

The original visual AI function knob eliminates the need for complex menu settings. The knob can quickly call the camera, participant selection, speaker tracking and other AI functions. The operation is efficient and intuitive, and novices can quickly get started.

▼Track recording and accurate playback

The built-in trajectory recording and playback function can record the complex camera movement and movement path and play it back with one click, reducing the time for operators to repeatedly set shooting trajectories, quickly reusing standardized operations, and improving work efficiency.

▼Built-in tally light for real-time status feedback

Built-in tally light protocol, the camera's operating status (shooting, standby, switching) is fed back to the keyboard tally light in real time, and displays different colors, effectively avoiding broadcast accidents such as accidentally cutting the picture and accidentally entering the mirror, and ensuring a smooth shooting process.

▼Multi-protocol compatible and flexible installation

Supports mainstream control protocols such as NDI (optional), VISCA, VISCA-IP, Pelco P&D, ONVIF, etc., is compatible with PTZ cameras of mainstream brands on the market, and achieves efficient cross-platform integration and use.

▼Versatile I/O for Every Application

Equipped with a full range of interfaces such as LAN, RS422/485, USB-C, HDMI2.0 output, RS232, Tally (DB26), etc., it can easily connect to switchers, video recorders, monitors and peripheral equipment, meeting the full-link professional needs from signal transmission, data exchange to status feedback. Supports POE+ power supply, making deployment simpler.

Specifications

▼Control Interface

Display	7-inch touch screen 1024×600p
AI Control Knob Knob	Quickly select and call camera AI functions, support visual function display, and quickly control camera aperture, shutter speed, gain, automatic exposure, white balance, etc.
Four-dimensional joystick	Pan/Tilt/Zoom/Confirm
Number of camera groups	16 groups (each group can connect 16 units)
Connected Cameras	Up to 254 units can be connected
Preset position	Up to 255 preset positions can be set

▼Interface Protocols

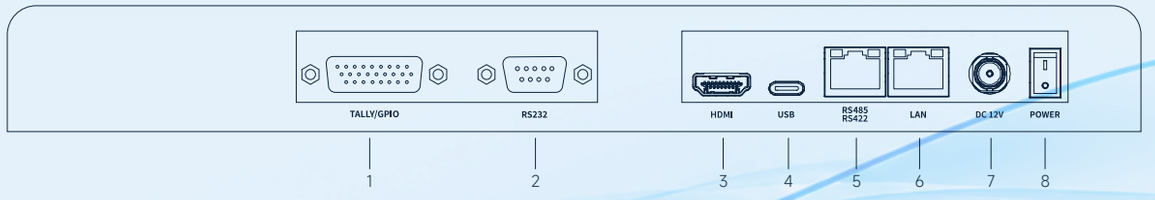
interface	1 × Network interface (RJ45/PoE+) 1 × RS485/RS422 (RJ45) 1 × USB (Type-C) 1 × HDMI2.0
IP control protocol	ONVIF, VISCA- IP, NDI®|HX3
Serial port control protocol	PELCO-D, PELCO-P, VISCA
Serial port baud rate	2400, 4800, 9600, 19200, 38400, 115200 bps
Network port standard	1000M × 1 (PoE/PoE+)

▼General

Power	Standard 5.5/2.1 power interface, DC 12V-2A±10%
Power Consumption	<15W
working environment	-10° C ~ 50° C / 14° F ~ 122° F
Storage environment	-40° C ~ 60° C / -40° F ~ 140° F



Connections



1 —— TALLY/GPIO
2 —— RS232
3 —— HDMI
4 —— USB
5 —— RS485/RS422
6 —— LAN
7 —— DC 12V
8 —— POWER