



Description

This series of high-definition information and communications cameras offers comprehensive functionality, superior performance, and a rich array of interfaces. Advanced ISP processing technology and algorithms deliver vivid, lifelike images with uniform brightness, a strong sense of depth, high definition, and excellent color reproduction. Support for H.265 /H.264 encoding ensures smoother, clearer images even at low bandwidths.

Features

- *Full HD image: Using a 1/2.8-inch 8.42MP high-quality image sensor, the maximum resolution can reach 3840 × 2160 and the output frame rate can reach up to 30 frames per second.
- *It uses a 70.4° high-quality optical lens, with an optical zoom of 12x and supports 15x digital zoom.
- *It has AI human tracking function , built-in high-speed processor and exclusive advanced image processing and analysis algorithm. Users can choose real-time tracking and area tracking according to the usage environment.
- *With autofocus function : the autofocus algorithm enables the lens to complete autofocus quickly, accurately and stably.
- *Low noise and high signal-to-noise ratio: Low-noise CMOS effectively ensures the ultra-high signal-to-noise ratio of the camera video. Advanced 2D and 3D noise reduction technology further reduces noise while ensuring image clarity.
- *It has HDMI, 3G-SDI, USB3.0, and wired LAN video output interfaces, and supports simultaneous output of 4-channel video interfaces.
- *It has a 3.5mm audio input interface, supports AAC audio compression, supports up to 1920x1080 resolution 60 frames/second compression, and supports 16000, 32000, 44100, and 48000 sampling frequencies.
- *Supports ONVIF, GB/T28181, RTSP, and RTMP network protocols; supports RTMP push mode, easily connecting to streaming media servers (Wowza, FMS); supports RTP multicast mode and network full command VISCA control protocol.
- *It has 1 RS-485 and 1 RS-232 control interface, supports VISCA, PELCO-D, PELCO-P control protocols, and supports automatic identification protocols.
- *The use of high-precision stepper motors and precision motor drive controllers ensures smooth and noiseless operation of the gimbal at low speeds.
- *Supports low-power sleep/wake-up, with power consumption less than 400mW when in sleep mode.
- *Supports 255 preset positions (10 on the remote control).
- *Supports control using infrared remote control or wireless remote control. 2.4G wireless remote control is not affected by angle, distance, or infrared interference. Supports remote control signal transparent transmission function, which is convenient for back-end equipment use.



Specification

Image sensor	1/2.8-inch high-quality CMOS sensor
Effective pixels	8.42MP, 16:9
Video signal	HDMI interface video format:4KP30, 4KP25, 1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50, 1080P59.94, 1080P29.97, 720P59.94 SDI interface video format:4KP30, 4KP25, 1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50, 1080P59.94, 1080P29.97, 720P59.94 U3 supports UVC, YUY2/NV12:1920×1080/1280×720/1024×576/800×600/800×448/640×360/640×480/480×270/320×180@30/25/20/15/10/5fps;MJPEG/H264/H265:3840×2160/2560×1440/1920×1080/1600×896/1280×720/1024×576/960×540/800×600/800×448/720×576/720×480/640×360/640×480/480×270/352×288/320×240@30/25/20/15/10/5fps;LAN main stream: MJPG/H264/H265:3840×2160/2560×1440/1920×1080/1600×896/1280×720/1024×576/960×540/800×600/800×448/720×576/720×480/640×360/640×480/480×270/352×288/320×240 @ 30/25/20/15/10/5 fps Sub-stream:MJPEG/H264/H265:1920×1080/1600×896/1280×720/1024×576/960×540/800×600/800×448/720×576 /720×480/640×360/640×480/480×270/352×288/320×240@30/25/20/15/10/5fps;
Focal length	f=4.1 – 49.2mm
Perspective	6.72° – 70.4°
Aperture factor	F1.8 – F2.68
Optical zoom	12 X
Digital zoom	15 X
Minimum illumination	0.5Lux (F1.8, AGC ON)
Digital noise reduction	2D & 3D digital noise reduction
White balance	Auto/Manual/One-touch White Balance/ 3000K/3500K/4000K/4500K/5000K/5500K/6000K/6500K/7000K
Focus	Automatic/manual/one-button focus
aperture	Automatic/Manual
Electronic shutter	Automatic/Manual
Backlight compensation	switch
Dynamic Range	Off/Dynamic Level Adjustment
Video Adjustment	Brightness, contrast, sharpness, horizontal flip, vertical flip (displayed when auto flip is off), black and white mode, gamma curve, electronic zoom, DCI, lens distortion correction
Signal-to-noise ratio	>55dB
Signal-to-noise ratio	1× HDMI, 1×3G-SDI, 1× USB3.0 , 1× LAN
Image stream	Dual stream output
Video compression format	LAN interface supports: H.264, H.265;USB 3.0 interface supports: MJPG, H264, H.265, YUY2, Nv12
Audio input interface	Dual-channel 3.5mm linear input
Audio output interface	HDMI, LAN, USB 3.0
Audio compression format	AAC
Network interface	1 x 100M Ethernet port, with PoE power supply, supports audio and video output
Network Protocol	RTSP, RTMP, ONVIF, GB/T28181; support network VISCA control protocol;Support remote upgrade, remote restart, and remote reset
Control interface	RS232-IN, Rs485
Serial communication protocol	VISCA/Pelco-D/Pelco-P; support baud rate 115200/38400/9600/4800/2400
USB communication protocol	UVC (Video Communication Protocol)
Power adapter	Input AC110V~AC220V; Output DC12V/1.5A
Input voltage	DC12V±10%
Input current	<1.36A
Power consumption of the whole machine	<1.36A
Horizontal rotation	-170° ~ +170°
Pitch rotation	-30° ~ +30°
Horizontal control speed	0.1°/s ~ 100°/s
Pitch control speed	0.1°/s ~ 45°/s
Preset speed	Pan: 100°/s, Tilt: 45°/s
Number of preset positions	Users can set up to 255 preset positions (10 for the remote control)
Storage temperature	-10°C ~ +60°C
Storage humidity	20% ~ 95%
Operating temperature	-10°C ~ +50°C
Operating humidity	20% ~ 80%
Size	253.5mm (length) × 144mm (width) × 169mm (height)
Weight	About 1.46kg
Usage Environment	indoor