

## Technical Specifications

### I. Product Features



#### ✧ 4K ultra HD

The 1/2.5-inch high-quality UHD CMOS sensor with up to 8.51 million pixels is used, providing 4K (3,840 × 2,160) ultra-high-resolution high-quality images. In addition, they are downward compatible with 1080P, 720P and other resolutions.

#### ✧ 71° wide-angle lens + 12x optical zoom

The product is provided with customized high-quality true 8-million ultra-high-resolution 4K ultra-wide-angle lens and 12x optical zoom, realizing a horizontal field of view up to 71°.

#### ✧ HDMI1.4b output

The product supports HDMI 1.4b specification and can directly output 4K uncompressed digital videos.

#### ✧ Low-power sleep function

The product supports low-power sleep/wake-up, and the power consumption in sleep state is less than 400 mW.

#### ✧ Low illumination

The new CMOS image sensor with ultra-high signal-to-noise ratio can effectively reduce the image noise under low illumination conditions. In addition, the 3D noise reduction algorithm is applied to greatly reduce the image noise. Even in the case of ultra-low illumination, the images remain clean and clear, and the signal-to-noise ratio of the images is above 55 dB.

#### ✧ Rich and complete interfaces

The product supports HDMI 1.4b high-definition output. It is additionally equipped with a 3G-SDI interface, providing an effective transmission distance up to 150m (1080p30). HDMI and LAN or 3G-SDI and LAN can output 2 channels of high-definition digital signals simultaneously.

#### ✧ Remote control

Multiple control modes are provided. RS232, RS485, network and USB can be used to

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control the camera.

✧ **Built-in OLED display**

The product can display HDMI and SDI output resolution, frame rate, IP address and other information.

## II. Camera Parameters

Pixels	8.51 million
Output resolution	4K@30fps,4K@29.97fps,4K@25fps, 1080P@60fps,1080P@50fps, 1080I@60fps,1080I@50fps, 1080P@30fps,1080@25fps, 1080P@59.94fps,1080I@59.94fps, 1080P@29.97fps,720P@60fps, 720P@59.94fps,720P@50fps
Sensor	1/2.5-inch, CMOS, effective pixels: 8.51 million
Lens	12x,f=4.4mm~52.8mm,F1.8~F2.6
Optical zoom	12x
Horizontal field of view	71°~8.2°
Vertical field of view	42.7°~4.5°
Minimum illumination	0.5Lux@(F1.8,AGCON)

## III. Network Features

Video coding standard	H.265/H.264/MJPEG
Video stream	Primary and secondary streams
Primary stream resolution	840×2160,1920×1080,1280×720,1024×576, 720×480,720×408,640×480,640×360
Secondary stream resolution	720×480,720×408,640×480,640×360, 480×320,320×240
Video bitrate	48Kbps,64Kbps,96Kbps,128Kbps
Bitrate control	Variable bitrate, fixed bitrate
Frame rate	50 Hz: 30 frames at most under 4K encoding and 50 frames at most under 1080p encoding 60 Hz: 30 frames at most under 4K encoding and 60 frames at most under 1080p encoding
Audio compression standard	AAC、G711A
Audio bitrate	96Kbps、128Kbps
Protocols available	TCP/IP, HTTP, RTSP, RTMP/RTMPS, Onvif, DHCP, SRT, GB/T28181 and multicasting

## IV.I/O Interface

USB interface	1-channel, USB2.0 enables an output of up to 4K@30fps compressed video
HDMI	1-channel, HDMI: version 1.4b
3G-SDI HDMI	1-channel, 3G-SDI: type BNC, 800mVp-p, 75Ω, in line with SMPTE424M
Network interface	1-channel, RJ45: 10M/100M/1000M adaptive Ethernet, with PoE available
Audio interface	1-channel, LineIn/MicIn, 3.5 mm audio interface

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Communication interface	1-channel, RS232In: 8-pin small DIN, with a maximum distance of 30 m, VISCA/Pelco-D/Pelco-P protocol 1-channel RS485: 2-core Phoenix connector, with a maximum distance of 1200 m, VISCA/Pelco-D/Pelco-P protocol
Power interface	JEITA type (DCIN12V)

**V. Electrical Parameters**

Input voltage	DC 12V
Input current	1A

**VI. Dimensions and Weight**

Product dimensions (W×H×D)	238×167×149mm
Package dimensions (W×H×D)	285×235×230mm
Net weight	1.35Kg
Gross weight	3.10Kg

**VII. Accessories Included**

Adapter	1
Remote controller	1
Wall-mounted bracket (screw kit)	1
USB cable	1

**VIII. Environmental Factors**

Working temperature	-10°C~40°C
Working humidity	10%~90%RH
Storage temperature	-40°C ~60°C
Storage humidity	10%~90%
Working height	< 5000 m

**IX. Disclaimer**

The actual product size/weight may vary due to different product configurations and manufacturing processes, so please refer to the actual product.

The product pictures in the specifications are only for illustration, subject to our available product, so the effect of the physical product (including but not limited to appearance, color and size) may be slightly different.

The descriptions, pictures and other contents of the specifications may be adjusted and revised in real time to provide accurate specification parameters as far as possible and match the actual product performance, specifications and other information.

No special notice will be given in case of necessary modification and adjustment above.