



ROOMY

HD Video Conference Camera

► Full HD ► Wide View Angle ► Big Zoom ► Multi-Interfaces

Product features :

Roomy series camera offers perfect functions, superior performance and rich interfaces. With advanced ISP processing technology and algorithm, Roomy has lifelike image, with uniform brightness, strong sense of hierarchy, high resolution and fantastic color rendition. It supports H.265/H.264 encoding which makes camera video fluent and clear even under low bandwidth.

Key Features :

- **Superb high-definition image**

Roomy employs 1/2.8 inch high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 60 fps.

- **Various optical zoom lens**

Roomy has 12X/20X optical zoom lens for options. 12x zoom lens is with 72.5 ° wide view angle without distortion.

- **Leading Auto focus technology**

Leading auto focus algorithm makes lens a fast, accurate and stable auto-focusing.

- **Low noise and High SNR**

Low Noise CMOS effectively ensure high SNR of camera video . Advanced 2D/3D noise reduction technology is also used to further reduce the noise, while ensuring image sharpness.

- **Audio Input Interface (for future development)**

Support 16000, 32000, 44100, 48000 sampling frequency and AAC, MP3 PCM audio coding.

- **Wide-range, Quiet and Quick Pan / Tilt Mechanism**

By adopting step driving motor mechanism, Roomy camera works extremely quiet and moves smoothly without any noises.

- **Multi-Format Video Outputs**

Multiple interfaces include: DVI (HDMI), 3G SDI, USB, wired LAN and wireless LAN interfaces (5G Wifi module, for future development). The 3G-SDI is available for 100m transmission at 1080p60 format.

- **Multiple Audio / Video compression**

Support H.265/H.264 video compression; AAC, MP3 and PCM audio compression; Support compression of resolution up to 1920x1080 with frame up to 60 fps and 2 channel 1920x1080p with 30 fps compression.

- **Multiple network protocol**

Support Onvif, RTSP, RTMP protocols and support RTMP push mode, easy to link streaming media server (Wowza, FMS)

- **Multiple IR remote control**

There are IR remoter and 2.4G wireless

remoter for options. The 2.4G wireless remoter will not be affected by angle, distance or IR interference. Support transparent transmission function.

- **Support Multiple Control Protocol**

Support VISCA, PELCO-D, PELCO-P protocols which can also be automatically recognized. Support Visca protocol control through IP port.

- **RS-232 cascade function**

Support RS-232 cascade function which is convenient for installing.

- **255 presets positions**

Up to 255 presets (10 presets by remoter).

- **Wide application**

Board Rooms, Large Conference Rooms, Seminar Halls, Tele-education, lecture capture, Webcasting, Videoconferencing, Tele-training, Tele-medicine, Interrogation and Emergency command systems.

- **Low-power sleep function**

Support low-power sleep/wake up, the consumption is lower than 500mW under sleep mode.

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Technical Specification

Camera Parameter

Model : Roomy - 12 :	Roomy - 20	
Sensor	1/2.8 inch high quality HD CMOS sensor	
Effective Pixels	16: 9 2.07 megapixel	
Video Format	1080P60/50/30/25/59.94/29.97; 1080I60/50/59.94; 720P60/50/30/25/59.94/29.97	
Optical Zoom	12X optical zoom, f = 3.9 ~ 46.1mm	20X optical zoom, f=4.7~94mm
View Angle	6.3° (tele) --72.5° (wide)	2.9° (tele) --55.4° (wide)
Digital Zoom	10x	
Minimum Illumination	0.5Lux (F1.8, AGC ON)	
DNR	2D & 3D DNR	
White Balance	Auto / Manual/ One Push/ 3000K/ 4000K/5000K/6500K	
Focus	Auto/Manual	
Aperture	Auto/Manual	
Electronic Shutter	Auto/Manual	
BLC	ON/OFF	
WDR	OFF/ Dynamic level adjustment	
Video adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve	
SNR	>55dB	

Input/Output Interface

Video Interfaces	USB-3.0 DVI (HDMI), LAN
Image code stream	Double streams outputs simultaneously
Video compression format	H.264, H.265
Control Signal	RS-232 Ring through RS232 output
Interface illn Interface Interface	
Control Protocol	Protocol: VISCA/Pelco-D/Pelco-P; Baud Rate : 115200/9600/4800/2400bps
Audio input Interface	Double track 3.5mm linear input;
Audio Compression Format	AAC/MP3/PMC Audio compression
HD IP Interface	100M IP port (100BASE-TX) ; 5G WiFi (optional), support IP Visca control protocol
Network Protocol	RTSP/RTMP, ONVIF
Power Interface	HEC3800 outlet (DC12V)

PTZ Parameter

Pan Rotation	±170°
Tilt Rotation	-30°~+90°
Pan Control Speed	0.1 -180°/sec
Tilt Control Speed	0.1-80°/sec
Preset Speed	Pan : 180°/sec, Tilt: 80°/sec
Preset Number	255 presets (10 presets by remote controller)

Other Parameter

Supply Adapter	AC110V-AC220V to DC12V/2A
Input Voltage	DC12V±10%
Input Current	1A (Max)
Consumption	12W (Max)
Store Temperature	-10°C to +60°C
Store Humidity	20% - 95%
Working Temperature	10°C to +50°C
Working Humidity	20%--80%
Dimension	258mmX172mmX168mm
Weight	1.6KG
Application	Indoor
Remote Operation (IP)	Remote Upgrade, Reboot and Reset
Accessory	Power supply, COM cable, User Manual

Interface Drawing



Dimension

