RIPA R30 CAMERA

Version:Version:1.1

Data Sheet

Ripa Technologies Pty Ltd

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PRODUCT SUMMARY

R30 camera The camera has advanced ISP processing algorithms to provide vivid images with a strong sense of depth, high resolution, and fantastic color rendition. It has built-in H.265/H.264 encoding to ensure smooth video performance in constrained bandwidth conditions.

Figure 1 R30 Camera

FEATURE HIGHLIGHTS

- **Superb High-definition Image:** It employs 1/2.8 inch high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate at 60 fps.
- **Optical Zoom Lens:** It has 12X/20X optical zoom lens for options.
- **Leading Auto-focus Technology:** Boasting leading auto-focus algorithm, this camera can achieve auto focus with speed, accuracy, and stability.
- **Low Noise and High SNR:** Low Noise CMOS effectively ensure high SNR of video. Advanced 2D/3D noise reduction technology is used to further reduce the noise while ensuring image resolution
- **Multi-Format Video Outputs:** It support HDMI, USB2.0, USB3.0, LAN.

- **Multiple Audio Compression Format: It supports** H.265/H.264 in video compression and AAC, MP3, G.711A in audio compression. The resolution can reach up to 1920*1080 at 60 fps.
- **Audio Input:** It supports for AAC, MP3, G.711A audio encoding. AAC, MP3 encoding supports 16000, 32000, 44100, 48000 sampling frequency, and G.711A encoding only support 8000 sampling frequency.
- **Multiple Network Protocols:** It supports for ONVIF, GB/T28181, RTSP, RTMP protocols, RTMP push mode, easy to link with streaming media server(Wowza, FMS)
- **Multiple Control Jack:** RS232；RS232, supporting for cascading, convenient to set up.
- **Support Multiple Control Protocol:** Support VISCA, PELCO-D, PELCO-P protocols, which can also be automatically recognized.
- **Low-power Sleep Mode:** Power consumption is less than 400mW in sleep mode.
- **Multiple Presets:** User can set 255 presets (remote control can call out 10)
- **Multiple Remote Controls:** There are IR remoter and other wireless remote for options.
- **Wide Application:** Tele-education, Lecture capture, Webcasting, Videoconferencing, Tele-training, Tele-medicine, Interrogation and Emergency command systems.

TECHNICAL SPECIFICATIONS

Model	R30-12	R30-20
Parameters		
Image Sensor	1/2.8 inch high quality HD CMOS sensor	
Effective Pixel	2.07M, 16：9	
Video Format	HDMI： 1080P60/50/30/25/59.94/29.97, 1080I60/50/59.94, 720P60/50/59.94/ U3： 1)U3: 1920X1080P60/50/30/25, 1280X720P60/50/30/25, 960X540P30, 640X360P30, 640X480P30, 352X288P30, 800*600P30 2)U3 compatible with U2： 960X540P30, 640X360P30, 1280X720P10/15,720X576P50, 720X480P60, 640X480P30, 352X288P30, 800*600P30. U2:320x240/352x288/640x480/704x576/720x480/720x576/640x360/800x448/800x600/960x540/1024x576/1024x768/1280x720/1920x1080P30/25/20/15/10/5	
Optical Lens	12X f=4.1～49.2mm	20X f = 5.05～101mm
Viewing Angle	6.57°（N） 70.28°（W）	3.45°（N） 60.04°（W）
Iris	F1.8 – F2.68	F1.8 – F2.9
Digital Zoom	10X	
Minimum Illumination	0.5Lux(F1.8, AGC ON)	
DNR	2D & 3D	

White Balance	Auto/Manual/One-push/3000K/3500K/4000K/4500K/5000K/5500K/6000K/6500K/7000K
Focus	Auto/Manual/One-push
Iris	Auto/Manual
Electronic Shutter	Auto/Manual
BLC(Backlight Compensation)	On/Off
Dynamic Range	Off/ Dynamic level adjustment
Video Adjustment	Brightness, Contrast, Sharpness, Horizontal Flip, Vertical Flip, Black and White Mode, Gamma Curve, Electronic Zoom, DCI, Ultra Low Light Mode
SNR	>55dB `
Interface	
Interface	HDMI, LAN, RS232, A-IN, U2, U3
Video output	HDMI, USB3.0, LAN, USB2.0
Image Streaming	Dual streaming output
Video compression formats	H.265, H.264 USB 2.0：MJPG、H264、H.265、YUY2、NV12
Audio IN Jack	A-IN：Dual audio channel 3.5mm linear input
Audio compression format	AAC, MP3, G.711A
Network Jack	100M（10/100BASE-TX）
Network Protocols	RTSP, RTMP, ONVIF, GB/T28181；Support network VISCA control protocols, remote upgrade, remote restart, and remote reset.
Control Jacks	RS232（loop in/out）
Control Protocols	Protocols：VISCA/Pelco-D/Pelco-P；Baud Rate：115200/38400/9600/4800/2400

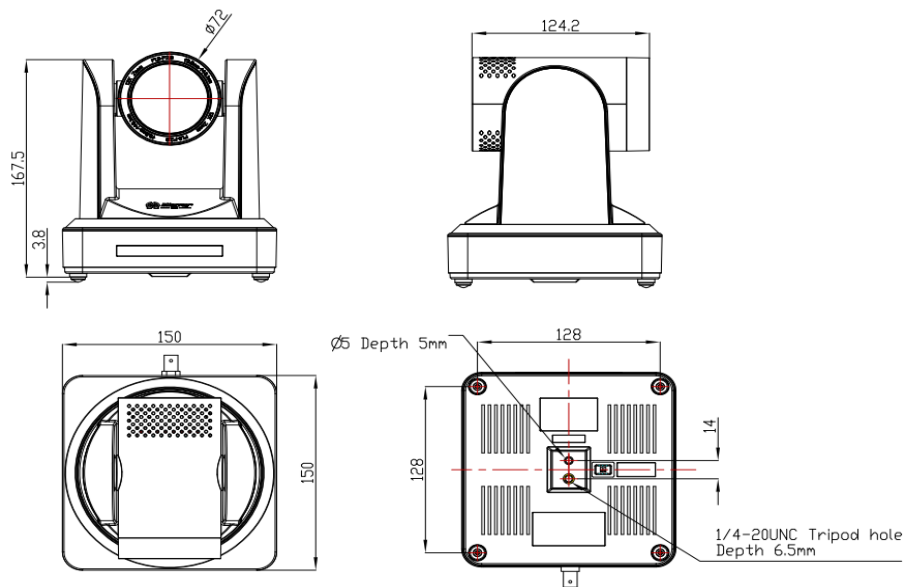| Power Jack	HEC3800 power socket(DC12V)
Power Adapter	Input: AC110V-AC220V Output: DC12V/1.5A
Input Voltage	DC12V±10%
Input Currency	1A（Max）
Power Consumption	12W(Max)
PTZ	
Pan	-170° ~ +170°
Tilt	-30° ~ +90°
Pan Speed	0.1 ~ 60°/s
Tilt Speed	0.1 ~ 30°/s
Preset Speed	Pan：60°/s，Tilt：30°/s
Preset Quantity	User can set 255 presets (10 via IR remote control)
Others	
Storage Temperature	-10℃ ~ +60℃
Storage Humidity	20% ~ 95%
Working Temperature	-10℃ ~ +50℃
Working Humidity	20% ~ 80%
Dimension	150mmX150mmX167.5mm
Weight	1.4kg
Environment	Indoors
Others	

Storage Temperature	-10℃ ~ +60℃
Storage Humidity	20% ~ 95%
Working Temperature	-10℃ ~ +50℃
Working Humidity	20% ~ 80%
Dimension	150mmX150mmX167.5mm
Weight	1.4kg
Environment	Indoors
Accessory	
Supplied Accessories	12V/1.5A power supply, RS232 cable, IR remote control, user manual
Optional Accessories	Mounting Brackets

PRODUCT DEMENSION

PRODUCT IMAGE LIBRARY

ORDERING GUIDE

Product part code is RP-R30-12, RP-R30-20