



# RIPA R30 CAMERA

Version:Version:1.2

Data Sheet

Ripa Technologies Pty Ltd

## CONTENTS

|                                |   |
|--------------------------------|---|
| Product Summary .....          | 2 |
| Feature Highlights .....       | 2 |
| Technical Specifications ..... | 3 |
| product Demension .....        | 6 |
| Product Image library .....    | 7 |
| Ordering Guide .....           | 7 |

## PRODUCT SUMMARY

R30 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/30X 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                  | R30-30                   |
|----------------------|---|-------------------------|--------------------------|
| 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/<br><br>U3:<br><br>1)U3: 1920X1080P60/50/30/25, 1280X720P60/50/30/25, 960X540P30, 640X360P30, 640X480P30, 352X288P30, 800*600P30<br><br>2)U3 compatible with U2: 960X540P30, 640X360P30, 1280X720P10/15,720X576P50, 720X480P60, 640X480P30, 352X288P30, 800*600P30.<br><br>U2:320x240/352x288/640x480/704x576/720x480/720x576/640x360/800x448/800x600/960x540/1024x576/1024x768/1280x720/1920x1080P30/25/20/15/10/5 |                         |                          |
| Optical Lens         | 12X<br>f=4.1 ~ 49.2mm   | 20X<br>f = 5.05 ~ 101mm | 30X<br>f = 5.2 ~ 148.4mm |
| Viewing Angle        | 6.57° (N)<br>70.28° (W)   | 3.45° (N)<br>60.04° (W) | 3.29° (N)<br>58.10° (W)  |
| Iris                 | F1.8 – F2.68  | F1.8 – F2.9             | F1.3 – F4.8              |
| Digital Zoom         | 10X   |                         |                          |
| Minimum Illumination | 0.5Lux(F1.8, AGC ON)  |                         |                          |
| DNR                  | 2D & 3D   |                         |                          |



## RIPA R30 Camera

|                             |  |
|-----------------------------|--|
| 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  |
| <b>Interface</b>            |  |
| 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<br>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   |

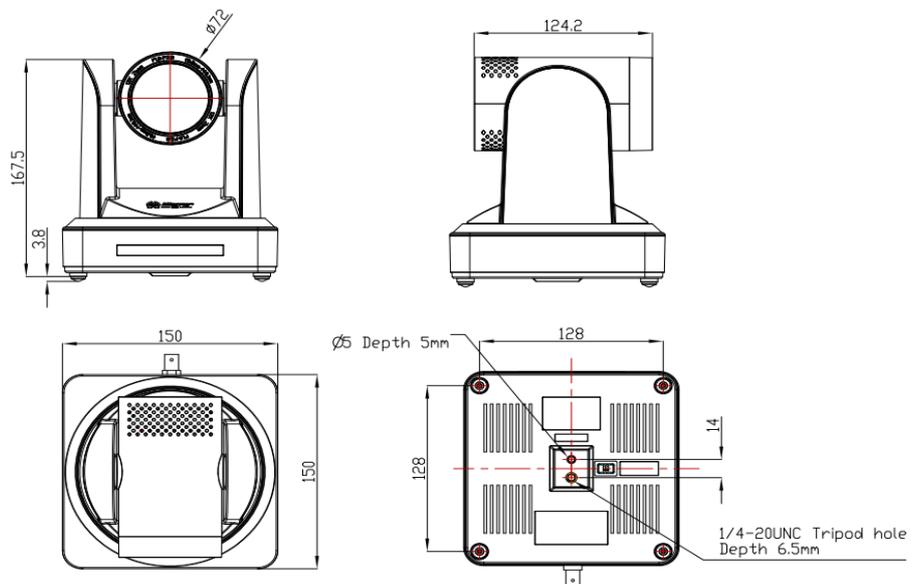


### RIPA R30 Camera

|                     |   |
|---------------------|---|
| 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°C ~ +60°C                                       |
| Storage Humidity    | 20% ~ 95%   |
| Working Temperature | -10°C ~ +50°C                                       |
| Working Humidity    | 20% ~ 80%   |
| Dimension           | 150mmX150mmX167.5mm                                 |
| Weight              | 1.4kg   |
| Environment         | Indoors   |
| Others              |   |

|                      |  |
|----------------------|--|
| Storage Temperature  | -10°C ~ +60°C  |
| Storage Humidity     | 20% ~ 95%  |
| Working Temperature  | -10°C ~ +50°C  |
| 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





## RIPA R30 Camera

### PRODUCT IMAGE LIBRARY



### ORDERING GUIDE

Product part code is RP-R30-12, RP-R30-20, RP-R30-30