

China Headquarters
Address: No.05, 5F, B90, Zhangkeng Second Zone, Baoan District, Shenzhen, China 518000, Tel: 86 755 2685 7580 **USA Technical Partner** 

Address: 350 W 9th Avenue, Suite 106 Escondido, CA, 92025 USA, Tel:1 858 748 1600 ext. 333/334

# Effio-P Series Indoor Analog Camera

1/3-inch, CCD, 700TVL, WDR, DSS, AGC, AWB, 3D DNR, BLC, OSD, Day/Night, Dome Case

### **Product Features**

- 700 TV Lines: High Sensitivity (0 Lux with IR on)
- 120dB Wide Dynamic Range (WDR)
- Optical Day/Night Function to Switch to Day or Night Mode depending on the light level
- Sony 1/3-inch SONY Exview HDD CCD II 960H
- Sony Digital Signal Processor (DSP), Effio-P
- IR Compensation:
- Power (12 DC)
- Digital Slow Shutter (DSS)
- Digital Zoom

- 3D Digital Noise Reduction (3D DNR)
- IR Illumination, Distance depends on model, refer chart below
- Adjust OSD menu by controller via BNC cable
- Environmental Capability with a standard Operating Temperature
- Privacy Zones
- Motion Detection
- Alarm Output

### **Product Specifications**

Model	RYD-AQ-EP	RYD-AH-EP	RYD-AF-EP	RYD-AK-EP
Image				
Lens	3.6/6mm option	3.6/6mm option	2.8-12mm only	2.8-12mm only
Angle of View	3.6mm/F1.2.	3.6mm/F1.2.	8mm(wide)-12mm(telephoto)	2.8mm(wide)-12mm(telephoto)
Horizontal	67.4°	67.4°	86.3° 22.1°	86.3° 22.1°
Vertical	55.6°	55.6°	64.7° 16.6°	64.7° 16.6°
IR Working	Not Available	30m (98ft)	40m(131ft)	25m (65.6ft)
Distance				
Low-Light	Not Available	2pcs mini IR array LED	3pcs mini IR array LED	21 Standard LEDs
Technology				
Power	0.9W	3.0W(IR off)/3.5W(IR	4.5W(IR off)/5.0W(IR	2W(IR off)/2.5W(IR
Consumption		on)	on)	on)
Product Size				
Product Weight	0.37lb	0.37lb	1.22lb	0.61lb
Construction	ABS Plastic	Metal	Metal	ABS Plastic
Color Option	White	White	White	Apricot



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Model	RYD-A731-EP	RYD-A730-EP	RYD-A630-EP	RYD-AGP-EP
Image				
Lens	2.8/3.6/6/8mm	2.8/3.6/6/8mm	4/6/8/12mm	3.6mm only
Angle of View	2.8mm/F1.2.	2.8mm/F1.2	4mm/F1.2	3.6mm/F1.2
Horizontal	86.3°	86.3°	62°	67.4°
Vertical	64.7°	64.7°	46.5°	55.6°
IR Working	30m (98ft)	30m (98ft)	50m(164ft)	20m (65.6ft)
Distance				
Low-Light	18 Standard LEDs	12 RS online LEDs	1 Array III LED	24 Standard LEDs
Technology				
Power	2.5W(IR off)/3.3W(IR	2.5W(IR off)/3.3W(IR	2.5W(IR off)/3.3W(IR	2W(IR off)/2.8W(IR
Consumption	on)	on)	on)	on)
Product Size	6.25in(L)*6.25in(W)*3.2in(H)	6.25in(L)*6.25in(W)*3.2in(H)	5in(L)*5in(W)*3.5in(H)	3.7in(L)*3.7in(W)2.7in(H)
Product Weight	0.48lb	0.48lb	0.77lb	0.33lb
Shipping				
weight				
Construction	ABS Plastic	ABS Plastic	ABS Plastic	ABS Plastic
Color Option	White	White	White	Apricot

### **Product Details**

The RYD Indoor Effio-P Series is a premium grade, wide range integrated, IR, dome, CCD camera. It uses a group of integrated infrared LEDs to deliver high quality pictures, even at night with zero illumination. Its WDR and day/night technology provides outstanding performance over a wide range of low-light conditions, as well as extreme high backlight conditions. The camera uses a removable infrared (IR) cut filter to switch between color and black-white modes as environmental lighting conditions change, and when the need for infrared sensitivity is realized

The RYD Indoor Effio-P Series is a high

resolution digital camera with 700 TVL of resolution and a minimum of 0.1 lux illumination in color mode. In low-light conditions, the camera can use Digital Slow Shutter (**DSS**) to produce 0.03 lux sensitivity.

The RYD Indoor Effio-P Series is equipped with high performance IR compensation. The camera can be set manually to adjust IR illumination levels, enabling customers to change the levels of luminance and contrast according to the shooting environment. This function reduces the blooming effect and delivers clear images when objects get closer to the camera. With IR supplemental



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lighting, the RYD Indoor Effio-P Series operates under zero lux (monochrome mode). Camera features include autosensing power (12 VDC with internal synchronization) and automatic gain control (AGC)

The RYD Indoor Effio-P Series is equipped with high performance adaptive illumination IR LEDs. Supported by built-in WDR technology, camera can detect the IR illumination level and adjusts it automatically. This again reduces the blooming effect and outputs clear images when an object gets increasingly closer to the camera

RYD Indoor Effio-P Series includes Automatic White Balance (AWB) for difficult lighting situations, Digital Noise Reduction (DNR) that minimizes environment noise levels to produce clear image quality, and Backlight Compensation (BLC) that adjusts the picture to prevent objects from appearing dark due to a strong backlight. These fine-tuning features are easily configured using the convenient multi languages On-Screen Display (OSD) menu. Use this menu to select a specific profile, to customize and save camera settings for the specific application, and trigger alarm output functions

The RYD Indoor Effio-P Series has an wide range operating temperature (-20° to 60°C)

The RYD Indoor Effio-P Series has built in analytical capabilities including privacy zones, motion detection, that adds to its functionality and makes it suitable for most applications

Typical applications for the RYD Indoor Effio-P Series includes shorter-range indoor boundary surveillance that has zero light at night and a need to supplement the scene with IR light. The true day/night functionality provides the best images in low-light and IR light applications by using a black-white mode function

## **Technical Specifications**

CAMERA/OPTICS	5	IR Illumination Dista	ance Refer Product Specifications
Imaging Sensor: Sony 1/3-inch Exview HAD CCD II 960H		Low-Light Technolog	gy Refer Product Specifications
Signal Processing:	Sony DSP, Effio-P	Electronic Shutter R	ange
Day/Night Operation:		NTSC	1/60 to 1/100,000 sec
Day:	Infrared (IR) cut filter	PAL	1/50 to 1/100,000 sec
Night	Same optical displacement as day	Slow shutter suppor	t Yes
Effective Pixels		Video Output	.0 Vp-p, NTSC/PAL composite, 75 ohms
NTSC:	976(H)*484(V), approx. 470k		BNC connector
PAL:	976(H)* 582(V), approx. 570k	Auto White Balance	Range 2,000° to 9,500° K
Horizontal Resolution:	700TVL	White Balance	
Minimum Illumination			ATW/MANUAL/PUSH/USER1/USER2
	Color (without IR) 0.03 lux	Signal-to-Noise Rati	o 48 dB
	Mono (with IR on) 0 lux	Automatic Gain Con	trol Yes
IR Cut Filter	Yes, D/N switch	Lens	Refer Product Specifications
Dynamic Range	120 dB dual-scan WDR	Backlight Compensa	ition Yes



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F-Number	F/1.2
Focal Length	Refer Product Specifications
Angle of View	Refer Product Specifications
Horizontal	Refer Product Specifications
Vertical	Refer Product Specifications
Adjusting Angle	
Panning Range	NOT available
Tilting Range	NOT available
Rotation Range	NOT available
Digital Noise Reduction	3D
Privacy Zones	Yes; 8 sizable windows
Motion Detection	Yes; 4 areas, sensitivity selectable
Digital Zoom	1~8x
Image Stabilization	Yes
Scene Learning/Analytics	Yes
Remote Access	BNC cable with controller
Alarm Output	1

### **ELECTRICAL**

Power Requirement 12 VDC +10% to -15% **Refer Product Specifications Power Consumption** 2-pin terminal block with screw terminals **Power Connector** Video Connector **BNC** Alarm Output 2-pin terminal block with screw terminals

#### **ENVIRONMENTAL**

- 20° to 50°C (14° to 122°F) **Operating Temperature** Storage Temperature - 10° to 60°C (-4° to 140°F) Operating Humidity 30% to 85%, noncondensing Storage Humidity 30% to 85%, noncondensing Impact Resistance Refer Product Specifications Waterproof Rating **Refer Product Specifications** 

### **PHYSICAL**

Construction Refer Product Specifications Unit Weight Refer Product Specifications Shipping Weight **Refer Product Specifications** 

#### RECOMMENDED ACCESSORIES

Wall Bracket, Ceiling Bracket (optional)

#### RECOMMENDED POWER SUPPLIES

Power supply per camera, 12 VDC, 1A

OSD Menu optional (Updated without

Notice)