



# RYD Security Company Ltd

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-G Series Indoor Analog Cameras

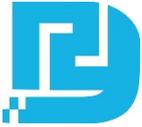
1/3-inch, 1.3MP CMOS Sensor, 900TVL, DWDR, DSS, AGC, AWB, 3D DNR, BLC, OSD, Day/Night, Dome Case

### Product Features

- 900 TV Lines: High Sensitivity (0 Lux with IR on)
- 48dB Digital Wide Dynamic Range (**DWDR**)
- Optical Day/Night Function to Switch to Day or Night Mode depending on the light level
- Sony 1/3-inch Sensor 960H
- Sony Digital Signal Processor (**DSP**), **Effio-G**
- IR Compensation
- Power (12 DC)
- Digital Electronic Shutter (**DES**)
- 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-A731-EG	RYD-A730-EG	RYD-A630-EG	RYD-AGP-EG
Image				
Lens	2.8/3.6/6/8mm option	2.8/3.6/6/8mm option	4/6/8/12mm option	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 Distance	30m (98ft)	30m (98ft)	50m(164ft)	20m (65.6ft)
Low-Light Technology	18 Standard LEDs	12 RS online LEDs	1 Array III LED	24 Standard LEDs
Power Consumption	2.5W(IR off)/3.3W(IR on)	2.5W(IR off)/3.3W(IR on)	2.5W(IR off)/3.3W(IR on)	2W(IR off)/2.8W(IR 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
Construction	ABS Plastic	ABS Plastic	ABS Plastic	ABS Plastic
Color Option	White	White	White	Apricot



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Model	RYD-AQ-EG	RYD-AH-EG	RYD-AF-EG	RYD-AK-EG
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 Distance	Not Available	30m (98ft)	40m(131ft)	25m (65.6ft)
Low-Light Technology	Not Available	2pcs mini IR array LED	3pcs mini IR array LED	21 Standard LEDs
Power Consumption	0.9W	3.0W(IR off)/3.5W(IR on)	4.5W(IR off)/5.0W(IR on)	2W(IR off)/2.5W(IR 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

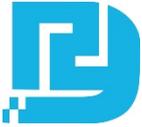
## Product Details

The RYD **Indoor Effio-G Series** is a premium grade, wide range integrated, IR, dome camera. It uses a group of integrated infrared LEDs to deliver high quality pictures, even at night with zero illumination. Its DWDR 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-G Series** is a high resolution digital camera with 900 TVL of resolution and a minimum of 0.001 lux illumination in color mode. In low-light conditions,

the camera can use Digital Electronic Shutter (**DES**) to produce 0.03 lux sensitivity.

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



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

The RYD **Indoor Effio-G 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-G Series** has an wide range operating temperature (-20° to 50°C)

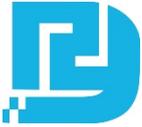
The RYD **Indoor Effio-G Series** has built in analytical capabilities including privacy zones, motion detection, that adds to its functionality and makes it suitable for most applications

Typical applications for the RYD **Indoor Effio-G 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

Imaging Sensor:	Sony 1/3-inch Sensor 960H	PAL	1/50 to 1/100,000 sec
Signal Processing:	Sony DSP, Effio-G	Slow shutter support	Yes
Day/Night Operation:		Video Output	.0 Vp-p, NTSC/PAL composite, 75 ohms BNC connector
Day:	Infrared (IR) cut filter	Auto White Balance Range	2,000° to 9,500°K
Night	Same optical displacement as day	White Balance	
Effective Pixels			ATW/MANUAL/PUSH/USER1/USER2
NTSC&PAL:	1280(H)*960(V), approx. 1230k	Signal-to-Noise Ratio	48 dB
Horizontal Resolution:	900TVL	Automatic Gain Control	Yes
Minimum Illumination		Lens	Refer Product Specifications
	Color (without IR) 0.001 lux	Backlight Compensation	Yes
	Mono (with IR on) 0 lux	F-Number	F/1.2
IR Cut Filter	Yes, D/N switch	Focal Length	Refer Product Specifications
Dynamic Range	48 dB digital WDR	Angle of View	Refer Product Specifications
IR Illumination Distance	Refer Product Specifications	Horizontal	Refer Product Specifications
Low-Light Technology	Refer Product Specifications	Vertical	Refer Product Specifications
Electronic Shutter Range		Adjusting Angle	
NTSC	1/60 to 1/100,000 sec		



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Panning Range	NOT available	Operating Temperature	- 20° to 50°C (14° to 122°F)
Tilting Range	NOT available	Storage Temperature	- 10° to 60°C (-4° to 140°F)
Rotation Range	NOT available	Operating Humidity	30% to 85%, noncondensing
Digital Noise Reduction	3D	Storage Humidity	30% to 85%, noncondensing
Privacy Zones	Yes; 8 sizable windows	Impact Resistance	Refer Product Specifications
Motion Detection	Yes; 4 areas, sensitivity selectable	Waterproof Rating	Refer Product Specifications
Digital Zoom	1~6x		
Image Stabilization	Yes		
Scene Learning/Analytics	Yes		
Remote Access	BNC cable with controller		
Alarm Output	1		

### PHYSICAL

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

### ELECTRICAL

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

### RECOMMENDED ACCESSORIES

Wall Bracket, Ceiling Bracket (optional)

### RECOMMENDED POWER SUPPLIES

Power supply per camera, 12 VDC, 1A

### ENVIRONMENTAL

OSD Menu optional (Updated without Notice)