



RYD Security Company Ltd

China Headquarters

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USA Technical Partner

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

CVI Series Outdoor Analog Camera

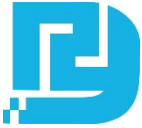
1/2.8-inch, 1.0MP pixel CMOS Sensor, DWDR, AGC, AWB, 3D DNR, BLC, OSD, Day/Night, Dome Case

Product Features

- 720P: High Sensitivity (0 Lux with IR on)
- 48dB Wide Dynamic Range (**DWDR**)
- Optical Day/Night Function to Switch to Day or Night Mode depending on the light level
- Sony 1/2.8-inch CMOS Sensor 1280*720@60fps
- Long-distance, real-time transmission
- Power (12 DC)
- Coaxial cable transmission technology, up to 500m via 75-3 cable
- Auto anti-flicker support
- 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 support
- Motion detection support
- CVI/CVBS 720H Dual output

Product Specifications

Model	RYD-AZ-CVI 1	RYD-AX-CVI 1	RYD-AD-CVI 1	RYD-AC-CVI 1
Image				
Lens	2.8-12mm Varifocal	3.6/6mm option	4/6/8/12mm option	6/8/12mm option
Angle of View	2.8mm(wide)-12mm(telephoto)	3.6mm/F1.2	4mm/F1.2	6mm/F1.2
Horizontal	86.3° 22.1°	64.7°	62°	42.3°
Vertical	64.7° 16.6°	50.6°	46.5°	31.7°
IR Working Distance	60m (196ft)	40m (131ft)	60m (196ft)	100m(327ft)
Low-Light Technology	2pcs Super Power IR Array LEDs	3 pcs Mini IR Array LEDs	2pcs Super Power IR Array LEDs	4pcs Super Power IR Array LEDs
Power Consumption	6.5W(IR off)/7.0W(IR on)	4.5W(IR off)/5W(IR on)	6.5W(IR off)/7.0W(IR on)	13W(IR off)/13.5W(IR on)
P2P distance	500m	500m	500m	500m
Product Size	10.7ft(L) x 4.7ft(W) x 4.0ft(H)	8.1ft(L) x 3.5ft(W) x 3.4ft(H)	10.7ft(L) x 4.7ft(W) x 4.0ft(H)	10.7ft(L) x 4.7ft(W) x 4.0ft(H)
Product Weight	1.59lb	0.91lb	1.59lb	1.59lb
Construction	Metal	Metal	metal	metal
Color Option	White, Dark Gray	White, Dark Gray	White	white



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Product Details

The RYD **Outdoor CVI Series** is a luxury grade, wide range integrated, IR, CVI dome camera. It uses a group of integrated infrared LEDs to deliver high quality pictures, even at night with zero illumination. Its **Digital 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 **Outdoor CVI Series** is a medium resolution digital camera with 1280*720 of resolution. The 1.0MP video is transmitted by coaxial cable. With progressive frame transfer mode, the video simulates, modulates and demodulates, with close to zero latency effect. Adaptive signal equalization support cameras to 500m under 720P with 75-3 Coaxial cable, and 650m with 75-5 Coaxial cable.

The RYD **Outdoor CVI Series** has Proprietary composite transmission technology. This supports coaxial two-way data, coaxial video and audio composite three transmissions.

The RYD **Outdoor CVI 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 **Outdoor CVI Series** operates under zero lux (monochrome mode). Camera features include autosensing power (12 VDC with internal synchronization) and automatic gain

control (**AGC**)

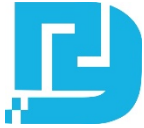
The RYD **Outdoor CVI Series** is equipped with high performance adaptive illumination IR LEDs. Supported by built-in digital WDR technology, the camera can detect the IR illumination level and adjust it automatically. This again reduces the blooming effect and outputs clear images when an object gets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

The RYD **Outdoor CVI 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 **Outdoor CVI Series** has an wide range operating temperature (-20° to 50°C)

The RYD **Outdoor CVI 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 **Outdoor CVI 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



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Technical Specifications

CAMERA/OPTICS

Imaging Sensor:	Sony 1/2.8-inch Sensor 720H
Day/Night Operation:	
Day:	Infrared (IR) cut filter
Night	Same optical displacement as day
Effective Pixels	
NTSC&PAL:	1280(H)*720(V)/60fps
Horizontal Resolution:	720P
Minimum Illumination	
	Color (without IR) 0.001 lux
	Mono (with IR on) 0 lux
IR Cut Filter	Yes, D/N switch
Dynamic Range	48 dB digital WDR
IR Illumination Distance	Refer Product Specifications
Low-Light Technology	Refer Product Specifications
Electronic Shutter Range	
NTSC	1/60 to 1/100,000 sec
PAL	1/50 to 1/100,000 sec
Slow shutter support	Yes
Video Output	HD-CVI/ 1Vp-p Composite Output (75Ω/BNC)
Auto White Balance Range	2,000° to 9,500°K
White Balance	ATW/MANUAL/PUSH/USER1/USER2
Signal-to-Noise Ratio	48 dB
Automatic Gain Control	Yes
Lens	Refer Product Specifications
Backlight Compensation	Yes
Digital Zoom	8x
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; 16 sizable windows
Motion Detection	Yes; 4 areas, sensitivity selectable
Image Stabilization	Yes
Scene Learning/Analytics	Yes
Remote Access	BNC cable with controller
Alarm Output	1

ELECTRICAL

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

ENVIRONMENTAL

Operating Temperature	- 20° to 50°C (14° to 122°F)
Storage Temperature	- 10° to 60°C (-4° to 140°F)
Operating Humidity	30% to 85%, noncondensing
Storage Humidity	30% to 85%, noncondensing
Impact Resistance	Not Available
Waterproof Rating	IP66

PHYSICAL

Construction	Refer Product Specifications
Unit Weight	Refer Product Specifications
Shipping Weight	Not Available

RECOMMENDED ACCESSORIES

Wall Bracket, Ceiling Bracket (optional)

RECOMMENDED POWER SUPPLIES

Power supply per camera, 12 DC, 2A

OSD Menu optional (Updated without Notice)