

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

HD CVI Series Indoor Analog Camera

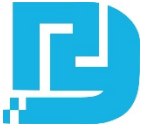
1/2.8-inch, 2.0MP pixel CMOS Sensor, DWDR, AGC, AWB, 3D DNR, BLC, OSD, Day/Night, Dome Case

Product Features

- 1080P: 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
- HD CVI/CVBS 960H Dual output

Product Specifications

| Model | RYD-AL-CVI2 | RYD-AH-CVI2 |
|----------------------|---|---|
| Image |  |  |
| Lens | 2.8-12mm Varifocal | 3.6/6mm option |
| Angle of View | 2.8mm(wide)-12mm(telephoto) | 3.6mm/F1.2 |
| Horizontal | 86.3° 22.1° | 64.7° |
| Vertical | 64.7° 16.6° | 50.6° |
| IR Working Distance | 40m (131ft) | 30m (98ft) |
| Low-Light Technology | 3 IR Array LEDs | 2 IR Array LEDs |
| Power Consumption | 5.0W(IR off)/5.5W(IR on) | 3.5W(IR off)/4W(IR on) |
| P2P distance | 500m | 500m |
| Product Size | 4.9ft(W)x3.8ft(H) | 3.7ft(W)x2.5ft(H) |
| Product Weight | 1.26lb | 0.61lb |
| Construction | Metal | Metal |
| Color Option | White, Dark Gray | White, Dark Gray |



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Product Details

The RYD **Indoor HD CVI Series** is a luxury grade, wide range integrated, IR, HD 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 **Indoor HD 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 **Indoor HD CVI Series** has Proprietary composite transmission technology. This supports coaxial two-way data, coaxial video and audio composite three transmissions.

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

control (**AGC**)

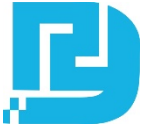
The RYD **Indoor HD CVI Series** is equipped with high performance adaptive illumination IR LEDs. Supported by built-in digital WDR technology, the camera can detect the IR illumination level and adjust it automatically. This again reduces the blooming effect and outputs clear images when an object gets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

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

The RYD **Indoor HD 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 **Indoor HD 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 1080H |
| Day/Night Operation: | |
| Day: | Infrared (IR) cut filter |
| Night | Same optical displacement as day |
| Effective Pixels | |
| NTSC&PAL: | 1920(H)*1080(V)/30fps |
| Horizontal Resolution: | 1080P |
| Minimum Illumination | |
| | Color (without IR) 0.001 lux |
| | Mono (with IR on) 0 lux |
| IR Cut Filter | Yes, D/N switch |
| Dynamic Range | 60 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 | 50 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)