RDO1500TLM-A-CVI
5MP Starlight HDCVI IR Eyeball Camera

* The parameters and datasheets below can only be applied to 1500-S2 series.

* In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000001.0.R.200908 or later version.

- Max 25fps@5MP (16:9 Video Output)
- CVI/CVBS/AHD/TVI switchable
- 3.6mm fixed lens (2.8mm optional)
- Built-in mic (-A)
- Max. IR Length 30m, Smart IR
- IP67, DC12V

System Overview

Lite Series is suitable for users who requires high quality monitoring products at a reasonable price. It is cost effective and offers high performance, which makes it an ideal choice for residential and small-medium business applications. This series offers an option of a wide range of technologies such as Full-color and Starlight, providing various solutions for different scenarios.

Functions

4 Signals over 1 Coaxial Cable

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.
*Audio input is available for some models of HDCVI cameras.

Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.
*This function is available for select models.

Long Distance Transmission

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments.
With working temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments.
Supporting ±30% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.
*Actual results verified by real-scene testing in test laboratory.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables high-definition video surveillance without the hassle of configuring a network.

Multi-language OSD

The camera is designed with IR LED illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. The unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

Smart Illumination

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Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normal after soaking in 1 m deep water for 30 minutes.
Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera

Image Sensor	5MP CMOS
Max. Resolution	2880(H) x 1620(V
Pixel	5MP
Scanning System	Progressive
Electronic Shutter Speed	PAL:1/25 s–1/100,000s NTSC:1/30 s–1/100,000s
S/N Ratio	>65dB
Minimum Illumination	0.005Lux/F1.06, 30IRE, 0Lux IR on
Illuminator Distance	30m (98.4ft)
Illuminator On/Off Control	Auto / Manual
Illuminator Number	1 (IR light)
Pan / Tilt / Rotation Range	Horizontal: 0°–360° Vertical: 0° - 78° Rotation: 0°–360°

Lens

Lens Type	Fixed lens
Mount Type	M12
Focal Length	2.8mm 3.6mm
Max. Aperture	F1.6
Field of View	2.8 mm: H: 111°; V: 58°; D: 132° 3.6 mm: H: 92°; V: 48°; D: 109°
Iris Type	Fixed Iris
Close Focus Distance	2.8 mm: 0.9m (3.0ft) 3.6 mm: 1.6m (5.2ft)

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8mm	63.6m (208.7ft)	25.4m (83.3ft)	12.7m (41.7ft)	6.4m (21.0ft)
	3.6mm	80.0m (262.5ft)	32.0m (105.0ft)	16.0m (52.5ft)	8.0m (26.2ft)

Video

Frame Rate	CVI: PAL: 5M@25 fps; 4M@25 fps; 1080P@25 fps;
	    NTSC: 5M@25 fps; 4M@30 fps; 1080P@30 fps
	AHD: PAL: 4M@25 fps;
	     NTSC: 4M@30 fps
	TVI: PAL: 4M@25 fps;
	    NTSC: 4M@30 fps
	CVBS: PAL: 960H;
	    NTSC: 960H

Resolution	5M (2880×1620); 4M (2560×1440); 1080P (1920×1080); 960H (960×576/960×480)
Day/Night	Auto switch by ICR
BLC	BLC/HLC/DWDR
WDR	DWDR
White Balance	Auto; Area WB

Gain Control	Auto; manual
Noise Reduction	2D NR
Smart IR	Yes
Mirror	Off/On
Privacy Masking	Off/On (8 area, rectangle)

Certifications

Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)

Port

Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Audio Interface	One channel built-in mic (-A)

Power

Power Supply	12V ±30% DC
Power Consumption	Max 3.2W (12VDC, IR on)

Environment

Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Protection Grade	IP67

Structure

Casing	Metal throughout the whole casing
Camera Dimensions	φ 940.mm × 85.7mm (φ3.70" × 3.37")
Net Weight	0.33Kg (0.73lb)
Gross Weight	0.47Kg (1.04lb)

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Accessories

Optional:

RPFA13A-E
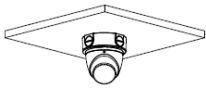Junction Box

RPFB205W
Wall Mount

RPFA152-E
Pole Mount

RPFA106
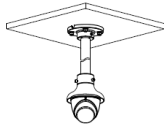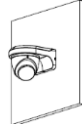Mount Adapter

RPFB220C
Ceiling Mount

Junction Mount	Ceiling Mount	Wall Mount
RPFA13A-E	**RPFA106 + RPFB220C**	**RPFB205W**

Pole Mount (Vertical)

RPFA152-E + RPFB205W

Dimensions (mm[inch])

85.7 [3.37]

⌀94.0 [⌀3.70]

⌀68.5 [⌀2.70]

4-⌀4.5 [⌀0.18]