ICR-200H-V2
2MP Starlight HD-AVS IR Eyeball Camera

IC REALTIME

- Starlight, 130dB true WDR, 3DNR
- Max. 30fps@1080P
- AVS/ TVI/ AHD and CVBS output switchable
- Audio in interface, built-in mic
- 2.8mm fixed lens, Super Adapt, 130dB WDR
- Max. IR length 196ft, Smart IR
- IP67, DC12V±30%

System Overview

The ICR-200H-V2 is the newest version of IC Realtime's venerable 1080p AVS eyeball turret camera. The camera's upgraded 2.8mm lens features Starlight and Super Adapt support, up to 196 feet of IR support, and 130dB true WDR. This enables the most optimal image under the most challenging lighting conditions.

The camera also includes a built-in microphone for audio as well as multi-format (AVS/ TVI/ AHD and CVBS) coax support for increased flexibility and a quick attach base for ease of installation.

Functions

4 Signals over 1 Coaxial Cable
HD-AVS technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HD-AVS camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, HD-AVS technology supports PoC for construction flexibility.

 * Audio input is available for some models of HD-AVS cameras.

Long Distance Transmission
HD-AVS technology guarantees long-distance and real-time transmission without any loss. It supports up to 800m for 1080P Full HD video via coaxial cable, and up to 300m via UTP cable

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

Starlight
With the adoption of high performance sensor, the camera is able to provide incomparable performance even under extreme low light environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

Super Adapt
This camera comes equipped with an intelligent algorithm,which enables the camera to automatically adjust parameters based on the external environment to present the optimal image.

Multiple-formats
The camera supports multiple video formats including HD-AVS, CVBS, and other two common HD analog formats in the market. A DIP switch located on the cable allows you to quickly toggle formats, further simplifying installation and debugging. This feature makes the camera compatible with not only XVRs, but also most existing HD/SD DVRs.

Wide Dynamic Range
Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. True WDR (130dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Advanced 3DNR
3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

Protection
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.

Technical Specification

Camera

Image Sensor	2MP" CMOS
Effective Pixels	1920(H)×1080(V), 2MP
Scanning System	Progressive
Electronic Shutter Speed	NTSC: 1/30 s–1/100,000 s PAL: 1/25 s–1/100,000 s
Minimum Illumination	0.001 Lux/F1.6, 30 IRE, 0 Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 196.9 ft (60m)
IR On/Off Control	Auto / Manual
IR LEDs	2

Lens

Lens Type	Fixed lens / Fixed iris			
Mount Type	M12			
Focal Length	2.8mm			
Max. Aperture	F1.6			
Angle of View	109°; V: 58°			
Focus Control	Auto / Manual			
Close Focus Distance	2.3 ft (0.7m)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	138ft	55ft	27ft	13ft

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan: 0° ~ 360° Tilt: 0° ~ 78° Rotation: 0° ~ 360°

Video

Resolution	1080p(1920 × 1080); 960H (960 × 576 / 960 × 480)	
Frame Rate	AVS	NTSC: 1080p@30 fps; PAL: 1080p@25 fps
	AHD	NTSC: 1080p@30 fps; PAL: 1080p@25 fps
	TVI	NTSC: 1080p@30 fps; PAL: 1080p@25 fps
	CVBS	NTSC: 960 × 480H; PAL: 960 × 576H;
Video Output	1-channel BNC high definition video output: AVS/TVI/AHD/CVBS (controlled by DIP switch)	
Day/Night	Auto (ICR) / Manual	
OSD Menu	Multi-language	
BLC Mode	BLC / HLC / WDR (130dB)	
WDR	130dB	
Gain Control	AGC	
Noise Reduction	3D NR	
White Balance	Auto / Manual	
Smart IR	Auto / Manual	

Certifications

Certifications	FCC (CFR 47 FCC Part 15 subpart B)

Interface

Video Interface	1-channel BNC AVS/ TVI/ AHD and CVBS video output (DIP switch)
Audio Interface	1ch in & Built-in Mic
RS485	N/A
Alarm	N/A

Electrical

Power Supply	12V DC ±30%
Power Consumption	Max 5.1 W (12 V DC, IR on)

Environmental

Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH *Start up should be done at above -40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH
Ingress Protection & Vandal Resistance	IP67

Construction

Casing	Aluminum
Dimensions	4.8" × 3.9"(121.9 mm × 99.1 mm)
Net Weight	0.95 lb (0.43 kg)
Gross Weight	1.32 lb (0.6 kg)

Mounting

Dimensions (mm/in)

MNT-JUNCTIONBOX-1

99.1 [3.9]

83.3 [3.28]

4-4.5 × 5.5

⌀84.0 [⌀3.31]

⌀121.9 [⌀4.8]

3-120°