

WV-VCR40W

2MP In-Car Video Rear/Side Camera with AI engine

In-Car Video Rear/Side Camera with edge AI



- Built-in AI features for In-Car Video Human Detection to trigger recording
- 2MP super wide-angle camera with 180°/150°H x 90°V FOV
- 2-in-1 camera to support a backseat camera and side camera
- Configurable Infrared for Auto IR (backseat) or Off (rear/side windows)
- Up to 1080p resolution
- Internal Microphone using AAC 64kbps
- Compatible to MIL-STD-810H

SPECIFICATIONS

Camera	
Image Sensor	Approx. 1/2.8 type CMOS image sensor
Scanning Area	5.59 mm (H) × 3.15 mm (V) {7/32 inches (H) × 1/8 inches (V)}
Minimum Illumination (Color)	color : 0.14 lx {0.0130 footcandle} (50IRE, F2.2, Maximum shutter: 1/30 s, AGC: High)
Minimum Illumination (BW)	0 lx {0 footcandle} (50IRE, F2.2, Maximum shutter: 1/30 s, AGC: High, when the IR LED is lit) 0.06 lx {0.0056 footcandle} (50IRE, F2.2, Maximum shutter: 1/30 s, AGC: High)
White Balance	Auto
Super Dynamic	Yes
Adaptive Black Stretch	Yes
Maximum Gain (AGC)	Off/Low/Mid/High
Color/BW (ICR)	Off/Auto1(IR Light Off) / Auto2(IR Light On)
AI Analytics - AI-VMD	Yes (Human Detection)
Lens	
Optical Zoom	-
Focal Length	1.93 mm {8-4/16 inches}
Angular Field of View	[16:9 mode] Horizontal: 180°, Vertical: 90° / Horizontal: 150°, Vertical: 90°
Maximum Aperture Ratio	1:2.2
Focus Range	0.3 m {11-13/16 inches} – ∞
System on Chip	
System on Chip (SoC)	Ambarella CV25
Network	
Network IF	10BASE-T/100BASE-TX, RJ45 connector
Resolution	H.264 1920x1080, 1280x720, 640x360, 320x180
H.265/H.264 Transmission Mode	Constant bit rate/Frame rate
Audio Compression Method	AAC 64kbps
Supported Protocol	IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, FTP, SFTP, LLDP, MQTT IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, FTP, SFTP, LLDP, MQTT
General	
Power Source	PoE (IEEE802.3af Compliant)

Power Consumption	PoE DC 48 V : 90 mA / Approx. 4.3 W (Class 2 device)
Ambient Operating Temperature	-10 °C to +50 °C {-14 °F to +122 °F}
Ambient Operating Humidity	10 % to 90 % (no condensation)
Dimensions	Main body (excluding a protruding part) 115 mm (W) x 47 mm (H) x 49.5 mm (D) {4-17/32 inches(W) x 1-27/32 inches(H) x 1-15/16 inches (D)} Main body + Bracket (for installing on ceiling) 156 mm (W) x 58.6 mm (H) x 49.5 mm (D) {6-5/32 inches(W) x 2-5/16 inches(H) x 1-15/16 inches (D)} Main body + Bracket (for installing on wall) 156 mm (W) x 47 mm (H) x 67.5 mm (D) {6-5/32 inches(W) x 1-27/32 inches(H) x 2-21/32 inches (D)}
Mass (approx.)	Main body Approx. 250 g {0.55 lbs} Bracket assembly Approx. 340 g {0.75 lbs}
Finish	Rear Cover : Aluminum die cast, Black Front Cover : PC resin, Black
Other	Mounting types : Dedicated bracket and optional RAM mounts
In-Car Video Recorder Compatibility	WJ-VPU4000 - Yes VPU Mk3 - No
RJ45 Interface Cable Length	3 ft

NOTES

Important

- Safety Precautions : Carefully read the Basic Information, Installation Guide and Operating Instructions before using this product.
- Masses and dimensions are approximate. Specifications are subject to change without notice.

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