

Dahua Mobile Products



CONTENTS



04-05 Key Features

06 Active Prevention

07-09 HDCVI Mobile Cameras

10-12 IP Mobile Cameras

13-14 Mobile Recorders

MOBILE PRODUCTS

A blue bus is driving on a road under a blue sky with clouds. The bus is in the center of the frame, moving towards the right. The road is paved and has a white line on the side. There are trees and a guardrail on the left side of the road. The sky is bright blue with scattered white clouds.

Overview

With the advent of AI transformation in the mobile industry, Dahua Technology, a world leading video-centric smart IoT solution and service provider, launched its Smart Bus Solution. This solution aims to solve the challenges related to security, efficiency and value. For example, AI technologies like ADAS and DSM are applied to reduce accidents and protect both passengers and drivers. Our solution is based on customer requirements and project experience, and covers the whole process from the moment the driver gets on the bus until the bus returns to the bus station.

Key Features

Face Recognition System

DSM cameras can detect the driver's face, enabling the face recognition function to realize automatic attendance.

The platform provides report and data for driver attendance management.



ANPR System

This function can be used on police car, to provide a more flexible way to detect cars of suspects.

Saves labor costs and time.



People Counting System

People counting cameras calculate the number of passengers getting on/off the bus in every stop, providing data for scheduling optimization.



IOT

Supports different kinds of accessory devices, such as PIR, temperature and humidity sensor, card reader, etc. that are ideal for different scenarios.

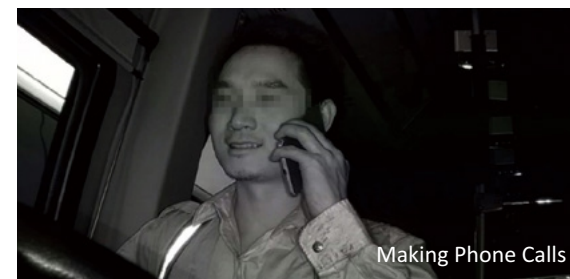


Active Prevention

DSM (Driver Status Monitor)

The DSM camera adopts global exposure CMOS, with capturing speed of up to 60 frames per second. Its optimized exposure mode effectively prevents deformation on the face image.

The DSM camera uses 940nm infrared fill light combined with an infrared lens, which can avoid interference of ordinary visible light to the driver's image and can effectively improve brightness in dark environment.



BSD (Blind Spot Detection)

Equipped with cameras powered by deep learning algorithm, our system can detect human, motor vehicle and non-motor vehicle at a certain distance that can be set by the user.



ADAS (Advanced Driver Assistance System)

The camera is equipped with true wide dynamic technology, digital wide dynamic technology, and high light suppression image pre-processing algorithm, which effectively suppresses strong light from headlights at night while improving overall brightness and transparency.



MNVR

Anti-vibration

When the vehicle is running on the road, the onboard shock and vibration are the main causes of HDD damage and video footage loss.

Dahua mobile devices comply with **ISO 16750-3** and **E-mark** to protect the system from electrical surge and vibration.



Power-off Protection

- Super-capacitor is applied to switch off the device in time in case of a sudden system power down, thus avoiding data loss and extending the hard disk lifespan.
- It will keep working for about **5 seconds after powering off**.
- Dahua devices have already passed **ISO7637-2** standards.
- Wide voltage input **DC 6-36V**.

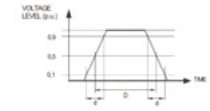
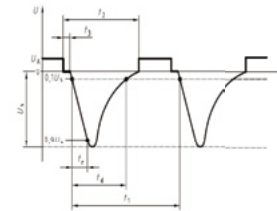


Figure 1: Test waveform

Table 1: Supply voltage (U_{in}=24V)

Voltage level min.	Duration d max.	Duration D max.	Series Resistor (Tol. ± 10%)
1.40V	0.5s	1.0s	1 Ω

Camera

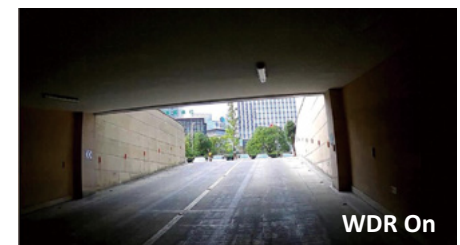
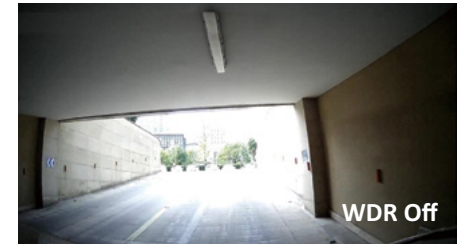
Low Illumination

Dahua new image sensor greatly improves signal-to-noise ratio and color reproduction.



WDR

Up to 120dB Wide Dynamic Range to capture an optimized image quality even in high contrast environment.





HDCVI Mobile Cameras

HDCVI mobile camera provides high quality images with the simplicity of analog infrastructure, making it the best choice to protect user's investment. It also offers multiple models for various scenarios.



Real-time Video Transmission



Multiple Micro-size Models for Various Scenarios







Real Plug & Play for Easy Installation, Saving Time and Labor Costs








Adopts Aviation Connector and Shock-proof Design for Stable Connection

MOBILE PRODUCTS

HDCVI Mobile Cameras

Model	HAC-HMW3200	HAC-HMW3200L-FR-BUS	HAC-HMW3200L	HAC-HDBW2241F-M-A
Appearance				
Image Sensor	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.8" 2MP CMOS
Min. Illumination	0.02Lux/F2.0, 0Lux IR On	0.02Lux/F2.0, 0Lux IR on	0.02Lux/F2.0, 0Lux IR on	0.004Lux/F1.6, 0Lux IR on
Lens	2.8mm (2.1mm Optional)	2.1mm (Rear), 2.8mm (Front)	2.1mm	3.6mm (2.8mm Optional)
FOV-H	106° (133°)	132° (Rear), 109° (Front)	132°	86.9° (110°)
Day/Night	Auto (ICR) / Manual	Auto ICR (Rear), Color (Front)	Auto (ICR) / Manual	Auto (ICR) / Manual
Max. IR Distance	20m (66ft), Smart IR	3m (9feet), Smart IR	3m (9feet), Smart IR	20m (66ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	120dB
Noise Reduction	2D	2D	2D	2D/3D
Resolution	30fps@1080P, 30/60fps@720P	30fps@1080P, 30/60fps@720P	30fps@1080P, 30/60fps@720P	30fps@1080P, 30/60fps@720P
Video Output	HD/SD Switchable (Aviation Connector)	HD/SD Switchable (Aviation Connector)	HD/SD Switchable (Aviation Connector)	HD/SD Switchable (Aviation Connector)
Audio In	Built-in Mic	Built-in Mic	Built-in Mic	1ch in & Built-in Mic
Pan/Tilt/Rotation	Tilt: 0°~180°	Pan: 30° Tilt: 120° Rotation: 360°	Pan: 0° ~ 40° Tilt: 0° ~ 55° Rotation: 0° ~ 360°	Pan: 0° ~ 60° Tilt: 0° ~ 80° Rotation: 0° ~ 360°
Ingress Protection	IP67	--	--	IP67, IK10, IP6K9K
Working Temperature	-40°C~+60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C~+60°C (-40°F ~ +140°F)
Power	DC12V±30% Max 2.3W	DC12V±30% Max 1.9W	DC12V±30% Max 1.9W	12V DC ±30% Max. 3.6W
Certification	CE/FCC	CE/FCC	CE/FCC	ECE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1) EN50155 (EN50121-3-2, IEC61373) IP6K9K, EN45545

HDCVI Mobile Cameras

Model	HAC-HDB2241F-M-A	HAC-HDBW3200F-M	HAC-HDB3200F-M	HAC-HMW3200D-H/V	HAC-HDW3200G-M
Appearance					
Image Sensor	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.004Lux/F1.6	0.02Lux/F2.0, 0Lux IR On	0.02Lux/F2.0	0.02Lux/F2.0, 0Lux IR on	0.02Lux/F2.0, 0Lux IR On
Lens	2.1mm	2.8mm	2.1mm	2.8mm	3.6mm (2.8mm Optional)
FOV-H	133°	106°	133°	106°	84° (101°)
Day/Night	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual
Max. IR Distance	--	20m (66ft), Smart IR	--	20m (66ft), Smart IR	20m (66ft), Smart IR
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	120dB	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D/3D	2D	2D	2D	2D
Resolution	30fps@1080P, 30/60fps@720P	30fps@1080P, 30/60fps@720P	30fps@1080P, 30/60fps@720P	30fps@1080P, 30/60fps@720P	30fps@1080P, 30/60fps@720P
Video Output	HD/SD Switchable (Aviation Connector)	HD/SD Switchable (Aviation Connector)	HD/SD Switchable (Aviation Connector)	HD/SD Switchable (Aviation Connector)	HD/SD Switchable (Aviation Connector)
Audio In	1ch in & Built-in Mic	Built-in Mic	Built-in Mic	--	Built-in Mic
Pan/Tilt/Rotation	Pan: 0° ~ 60° Tilt: 0° ~ 80° Rotation: 0° ~ 360°	Pan: -30°~30° Tilt: 0°~80° Rotation: 0°~360°	Pan: -30°~30° Tilt: 0°~80° Rotation: 0°~360°	Tilt: 0°~180°	Pan: 0°~360° Tilt: 0°~78° Rotation: 0°~360°
Ingress Protection	IP67, IK10, IP6K9K	IP67, IK10	IP67, IK10	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F ~ +140°F)	-40°C~+60°C (-40°F ~ +140°F)	-40°C~+60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C~+60°C (-40°F~+140°F)
Power	12V DC ±30% Max. 2.2W	DC12V±30% Max. 2.6W	DC12V±30% Max. 1.1W	DC12V±30% Max. 3.1W	DC12V±30% Max. 2.3W
Certification	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1) EN50155 (EN50121-3-2, IEC61373) IP6K9K, EN45545	CE/FCC	CE/FCC	CE/FCC	CE/FCC



IP Mobile Cameras

IP Mobile Cameras are suitable for transport vehicles such as buses and railway trains. It boasts superior anti-vibration performance and excellent resistance in both high and low temperature conditions. Equipped with AI technology, the Dahua Mobile Cameras realize intelligent functions such as face detection and people counting, ensuring high-quality images in low-light environment.



AI Functions

- Face Detection
- People Counting
- Tripwire and Intrusion



Professional Certifications

- EN50155
- E-MARK
- EN45545-2



Ultra Low Illumination

- Starlight+
- Starlight



Rich Appearance

- Dome/Eyeball
- Fisheye
- Dual-lens
- Special Models

MOBILE PRODUCTS

IP Mobile Cameras

Mobile Camera

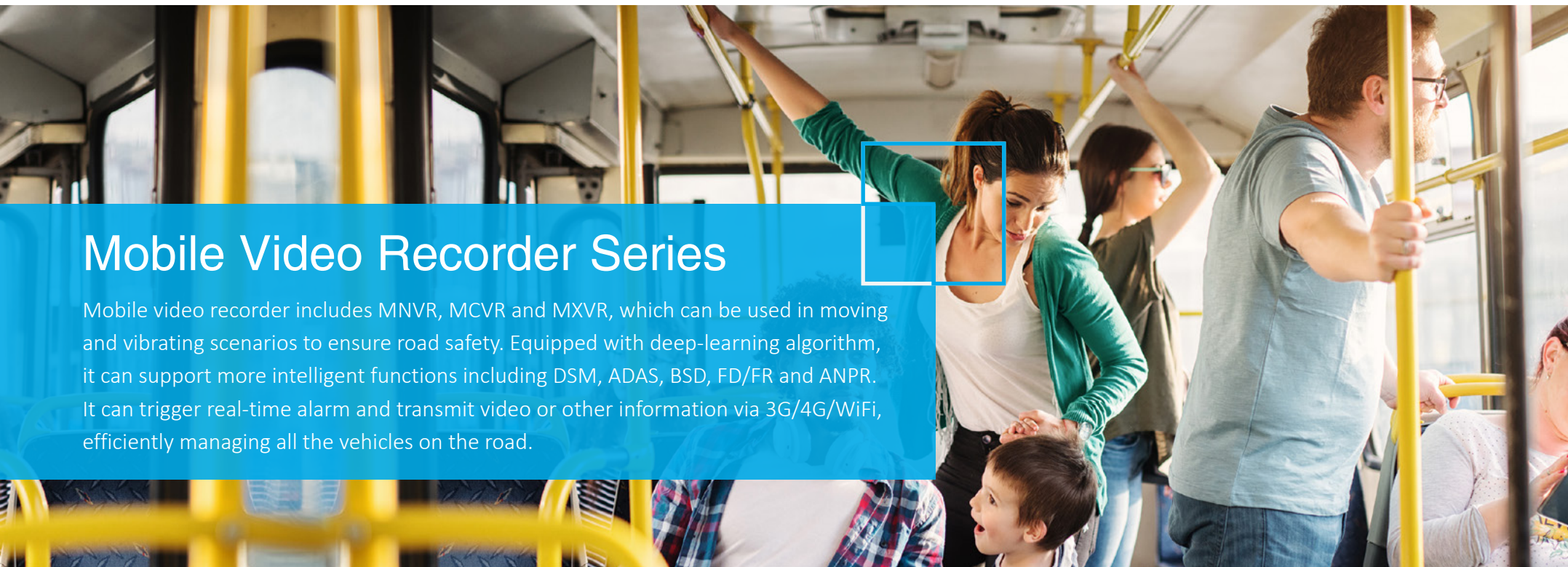
Model	IPC-HDBW5241F-M12-SA	IPC-HDBW3541F-AS-M	IPC-HDBW4431F-M/M12	IPC-HDBW3231F-M/M12
Appearance	 	 	 	 
Image Sensor	1/2.8 2MP progressive scan CMOS	1/2.7"5MP progressive CMOS	1/3" 4MP CMOS	1/2.8" 2MP progressive scan CMOS
Lens	2.8 mm; 3.6 mm; 6 mm; 8 mm	2.8 mm; 3.6 mm; 6 mm	2.8mm; 3.6mm; 6mm	2.8mm; 3.6mm; 6mm
FOV-H	106° / 87° / 54° / 40°	98° / 80° / 50°	104° / 87° / 55°	110° / 89.5° / 52.8°
Min. Illumination	0.002 Lux @ F1.6	0.005 Lu x@ F1.6	0.08 Lux@F2.0	0.001 Lux@F2.1
Day/Night	Auto (ICR) / Color / B / W	Auto (ICR) / Color / B / W	Auto (ICR) / Color / B / W	Auto (ICR) / Color / B / W
WDR	120 dB	120dB	120dB	120dB
Max. IR Distance	30 m	30 m	20 m	23 m
Video Compression	H.265/H.264H/H.264/H.264B/MJPEG (Sub Stream)	H.265/H.264H/H.264/H.264B/MJPEG	H.265/H.264H/H.264/MJPEG	H.265/H.264H/H.264/MJPEG
Max. Resolution	1080P (1920×1080)	5M (2592 × 1944)	4M (2688×1520)	1080P (1920×1080)
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Frame Rate	25/30fps@1080P	25/30fps@1080P	25/30fps@4M	25/30fps@1080P
Multi-streaming	3 Streams	3 Streams	3 Streams	2 Streams
Pan/Tilt/Rotation	Pan:-30°~30°; Tilt: 0°~80°; Rotation: 0°~360°	Pan:-30°~30°; Tilt: 0°~80°; Rotation: 0°~360°	Pan: 0°~60°; Tilt:0°~80°; Rotation: 0°~360°"	Pan:-30°~30°; Tilt:0°~80°; Rotation:0°~360°
Intelligent Video	IVS (Perimeter Protection); Face Detection People Counting; Intelligent Search	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire, Intrusion, Scene Change, Abandoned/Missing, Face Detection	Tripwire, Intrusion, Object Abandoned/Missing
Compatibility	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	ONVIF(Profile S/Profile G); CGI;P2P;Milestone;Genetec	ONVIF, PSIA, CGI	ONVIF Profile S & G, API
Audio In/Out	Built-in MIC	Built-in MIC	Built-in MIC	Built-in Mic
Memory Slot	Micro SD Card (supports max. 256 G)	Micro SD Card (support max. 256 G)	Micro SD, Max. 128GB	Micro SD card 128GB
Alarm In/Out	--	--	--	--
Ingress Protection	IP67; IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40° C ~ +60° C (-40° F ~ +140° F)	-40° C ~ +60° C (-40° F ~ +140° F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	DC12V, PoE (802.3af); Max. 5.3W	DC12V, PoE (802.3af); Max. 5.7W	DC12V, PoE (802.3af); Max. 4.5W	DC12V, PoE (802.3af); Max. 5W
Certification	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07 EN50155 E-MARK: ECE Regulation 10.05	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B E-mark(ECE-Regulation No.10) EN50155(Optional)	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B EN50155(Environment)

MOBILE PRODUCTS

IP Mobile Cameras

Mobile Camera

Model	IPC-MBW4431-AS/M12	IPC-MBW4231-AS/M12	IPC-MW1230D-HM12/VM12	IPC-HDBW5441F-AS-E2	IPC-EB5541-M12-SA
Appearance		 Starlight		 Starlight	 Starlight
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP progressive scan CMOS	2 x 4 MP 1/2.7" CMOS	1/2.7" 5MP CMOS
Lens	2.8mm; 3.6mm; 6mm	2.8mm; 3.6mm; 6mm	2.8mm; 3.6mm; 6mm	2.8mm; 3.6mm	1.4mm
FOV-H	104°/82.5°/55°	110°/87°/52°	115° / 86° / 53°	95°/78°	180°
Min. Illumination	0.08 Lux@F2.0	0.009 Lux@F2.0	0.02 Lux@F2.1	0.005 Lux@F1.6	0.006 Lux@F2.0
Day/Night	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto(ICR)/Color/B/W	Color/B/W
WDR	120dB	120dB	DWDR	120 dB	120dB
Max. IR Distance	30 m	30 m	30 m	30 m	--
Video Compression	H.265/H.264H/H.264/MJPEG	H.265/H.264H/H.264/MJPEG	H.265+/H.265/H.264+/H.264	H.265/H.264/H.264H/H.264B/MJPEG (Sub stream)	H.265/H.264H/H.264/H.264B/MJPEG (Sub Stream)
Max. Resolution	4M (2688x1520)	1080P (1920x1080)	1080P (1920x1080)	4M (2560x1440)	5M (2592x1944)
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Frame Rate	25/30fps @ 4M	50/60fps@1080P	25/30 fps@1080p	25/30 fps@4M	25/30 fps @5MP
Multi-streaming	3 Streams	3 Streams	2 Streams	3 Streams	3 streams
Pan/Tilt/Rotation	Pan: 0°~20°; Tilt: -15°~15° Rotation: 0°~360°	Pan: 0°~20°; Tilt: -15°~15° Rotation: 0°~360°	--	Pan: 0°~175°; Tilt: 0°~65° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~55° Rotation: 0°~360°
Intelligent Video	IVS (Tripwire, Intrusion, Object Abandoned/ Missing), Face Detection	IVS (Tripwire, Intrusion, Object Abandoned/ Missing), Face Detection	--	IVS (Perimeter Protection); People Counting; Face Detection; Smart Search	IVS (Tripwire, Intrusion), People Counting
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF profile S, CGI	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
Audio In/Out	1/1 channel In/Out (-AS)	1/1 channel In/Out (-AS)	--	Built-in Mic	Built-in Mic 1/1 channel In/Out (-AS Model)
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB	--	Micro SD, Max. 256 GB	Micro SD card 256GB
Alarm In/Out	1/1 channel In/Out (-AS)	1/1 channel In/Out (-AS)	--	2/2	1/1 channel In/Out (-AS Model)
Ingress Protection	IP67, IP6K9K, IK10	IP67, IP6K9K, IK10	IP67, IP6K9K	IP67, IK10	IP67, IK10
Working Temperature	-40°C~+70°C (-40°F~+158°F)	-40°C~+70°C (-40°F~+158°F)	-30°C ~ +60°C (-22°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-30°C to +55°C (-22°F to +131°F)
Power	-AS: DC12V, PoE (802.3af) -M12: PoE (802.3af) Max. 6.5W	-AS: DC12V, PoE (802.3af) -M12: PoE (802.3af) Max. 6.5W	DC12V Max. 3.7W	12 VDC/PoE	-M: DC12V, PoE (802.3af) -M12: PoE (802.3af) Max. 6W
Certification	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B E-mark(ECE-Regulation No.10) EN50155(Environment)	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B E-mark(ECE-Regulation No.10) EN50155(Environment)	CE (EN 60950:2000) FCC: FCC Part 15 Subpart B E-mark(ECE-Regulation No.10) EN50155(Optional)	CE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07 EN50155 EN45545-2 E-MARK: ECE Regulation 10.05



Mobile Video Recorder Series

Mobile video recorder includes MNVR, MCVR and MXVR, which can be used in moving and vibrating scenarios to ensure road safety. Equipped with deep-learning algorithm, it can support more intelligent functions including DSM, ADAS, BSD, FD/FR and ANPR. It can trigger real-time alarm and transmit video or other information via 3G/4G/WiFi, efficiently managing all the vehicles on the road.



Extreme Environment Performance

- Supports wide-range temperature: -30~75 °C.
- Supports anti-vibration.



Reliable Power Design

- Supports data writing even after sudden power failure.
- Supports 6V to 36V wide power voltage input.



Wireless Transmission

- Supports transmission of real-time video or alarm via 3G/4G/WiFi.
- Supports GPS module.









AI Functions





- Supports DSM, ADAS, BSD, FD/FR and ANPR.

MOBILE PRODUCTS

Mobile Video Recorder Series

Model	MNVR8104/8208-I	MNVR4104/4208-I	MXVR4104-I	MXVR1004-I	MCVR6208	MXVR6212
Appearance						
Feature	AI H.265 MNVR	H.265 MNVR	H.265 MXVR	H.265 Dual SD card MXVR	Analog HD CVR	Analog HD XVR
Decoding Resolution	4MP	4MP	1080P	1080P	8 channels 1080P	12 channels 1080P
Video Input	2+4/8	4/8	4+4	4+1	8	8+4
Compression	H.265/smart H.265/H.264/ smart H.264	H.265/smart H.265/H.264/ smart H.264	H.265/smart H.265/H.264/ smart H.264	H.265/smart H.265/H.264/ smart H.264	H.264	H.264
Video Output	VGA, HDMI	VGA, HDMI, TV	VGA, TV	TV	VGA, TV	VGA, TV
Audio talk	1ch	1ch	1ch	1ch	1ch	1ch
HDD	1/2	1/2	1	--	2	2
SD Card	1	1	1	2	1	1
Backup Mode	External USB Storage Device; Network Backup	External USB Storage Device; Network Backup	External USB Storage Device; Network Backup	External USB Storage Device; Network Backup	External USB storage device	External USB Storage Device
Alarm Input	9 channels (1-8 local alarm, 9 pulse input)	9 channels (1-8 local alarm, 9 pulse input)	9 channels (1-8 local alarm, 9 pulse input)	7 channels (7th is the pulse input)	9 channels(1-7 local alarm, 8,9 pulse input)	9 channels(1-7 local alarm, 8,9 pulse input)
Alarm Output	1 channel relay output, 1channel 12V output	1 channel relay output, 1channel 12V output	1 channel relay output, 1channel 12V output	1 channel relay output, 1channel 12V output	1channel relay output, 1channel 12V output	1channel relay output, 1channel 12V output
USB	2 USB3.0, 1 USB 2.0	3 USB 2.0	3 USB 2.0	2 USB 2.0	1 USB 2.0,2 USB 3.0	1 USB 2.0,2 USB 3.0
Network Interface	Front panel: MNVR8104-I: 1 × 10/100Mbps RJ45 + 4 × PoE MNVR8208-I: 1 × 10/100Mbps RJ45 + 8 × PoE	Front panel: MNVR4104-I: 1 × 10/100Mbps RJ45 + 4 × PoE MNVR4208-I: 1 × 10/100/1000Mbps RJ45 + 8 × PoE	Front panel: 1 × 10/100Mbps RJ45 Rear panel: 1 × 10/100Mbps 6-pin aviation	Rear panel: 1 × 10/100Mbps RJ45	Front panel: 1 × 10/100/1000Mbps RJ45	Front panel: 1 × 10/100Mbps RJ45
AI	DSM, ADAS, BSD, FR, ANPR	DSM, FR, ANPR	DSM, ADAS, BSD	DSM, ADAS, BSD	--	--
RS232	2	2	2	1	2	2
RS485	1	2	1	1	2	2
CAN	1	1	--	--	1	1
GPS	optional	optional	optional	optional	optional	optional
3G/4G	optional	optional	optional	optional	optional	optional
WI-FI	optional	optional	optional	optional	optional	optional
Sensor	gyro	gyro	gyro	gyro	gyro	gyro
Power	Built in power DC 6V-36V	Built in power DC 6V-36V	Built in power DC 6V-36V	Built in power DC 6V-36V	Built in power DC 6-36V	Built in power DC 6-36V
Power Off Protection	Built-in UPS	Built-in UPS	Built-in UPS	Built-in UPS	built-in UPS	built-in UPS
Power	≤12W (without HDD)	MNVR4104: <10.2 W (without HDD) MNVR4208: <11.1 W (without HDD)	<8.4W (without HDD)	<6.7W, (without HDD)	< 12W(without HDD)	< 12W(without HDD)
Working Temperature	-30°C~+70°C (heater option)	-30°C~+70°C (heater option)	-30°C~+70°C (heater option)	-30°C~+70°C	-30°C~+60°C (heater option)	-30°C~+60°C (heater option)
Size (W×H×L)	180mm×190mm×50mm	180mm×190mm×50mm	180mm×190mm×50mm	160mm×138mm×48mm	180mm×190mm×50mm	180mm×190mm×50mm
Weigh	2.1kg (gross weight)	MNVR4104:2.93Kg (gross weight) MNVR4208:3.10Kg (gross weight)	2.83Kg (gross weight)	1.75Kg (gross weight)	2.2Kg (without HDD)	2.2Kg (without HDD)
Certification	CE/FCC/EN50155/ ISO7637-2/ISO16750	CE/FCC/EN50155/ISO7637-2/ ISO16750/E-mark/BIS/EN45545-2	CE/FCC/EN50155/ISO7637-2/ ISO16750/BIS	CE/FCC/EN50155/ISO7637-2/ ISO16750/BIS	EN50155/CE/FCC/ISO16750/ EN45545-2/E-mark	EN50155/CE/FCC/ISO16750/ EN45545-2/E-mark

Active Prevention Series

Analog Cameras			All-in-one		
Model	DAE-CDM5110-CY	DAE-CFM5210-CY	Model	DAE-CDR8213-GFW	DAE-CDMS8113-GFW
Appearance			Appearance		
Sensor	1/4 inch CMOS	1/2.8 inch CMOS	Image Sensor	1/2.8" CMOS	1/4" CMOS
Effective Pixels	1280(H) × 720(V)	1920(H) × 1080(V)	Effective Pixel	1920 (H)×1080 (V)	1280 (H)×720 (V)
Electronic Shutter Speed	PAL:1/25s~1/10000s NTSC:1/30s~1/10000s	PAL:1/25s~1/10000s NTSC:1/30s~1/10000s	Electronic Shutter Speed	PAL: 1/25s~1/10,000s NTSC: 1/30s~1/10,000s	PAL: 1/25s~1/10,000s NTSC: 1/30s~1/10,000s
IR Distance	3 m	--	Frame Rate	50Hz: 1920×1080@30fps	50Hz: 1280×720@30fps
Electronic Shutter Speed	PAL:1/25s~1/10000s NTSC:1/30s~1/10000s	PAL:1/25s~1/10000s NTSC:1/30s~1/10000s	Focal Length	2.6 mm	4 mm
Frame Rate	50Hz:1280×720@25fps 60Hz:1280×720@30fps	50Hz:1920×1080@25fps 60Hz:1920×1080@30fps	Video Compression	H.264/H.265	H.264/H.265
Digital WDR	Supported	Supported	Video Access	Support external 3-ch 720p analog cameras	Support external 3-ch 720p analog cameras
HLC	Supported	Supported	Audio Input	Built-in 1 Mic	--
Gain Control	Auto	Auto	Audio Output	Built-in 1 channel speaker output	Built-in 1 channel speaker output
Focal Length	4mm	6mm	Alarm	3 channels I/O alarm input 1 channel Bluetooth alarm	4 channels I/O alarm input 1 channel alarm output
Noise Reduction	2D/3D DNR	2D/3D DNR	Storage	TF card × 2 Max. 256G for each	TF card × 1 Max. 256G
Field of View	Horizontal: 61.8° Vertical: 37.5°	Horizontal: 56° Vertical: 31°	Port	1×micro USB, USB 2.0 1×RS232 1×Reset key	1×100 Mbps RJ45 1×micro USB, USB 2.0 1×RS485 1×RS232 1×CAN
Operating Humidity	<90% and non-condensation	<90% and non-condensation	Vehicle Detection	G-sensor	G-sensor
Operating Temperature	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)	Intelligent Analysis	ADAS DSM, FR, Abandoned object detection (Require external camera)	ADAS DSM, FR (Require external camera)
Power Consumption	2.5W	2W	Power Supply	DC 9V~16V	DC 7V~36V
Power Supply	DC 9V-16V	DC 9V-16V	Power Consumption	≤12W	≤12W
Certification	CE/FCC	CE/FCC	Operating Temperature	-30°C~+60°C	-20°C~+70°C
			Operating Humidity	<90%RH (no condensation)	<95%RH (no condensation)
			Dimension	125mm×84mm×34mm	108mm×100mm×102mm (with bracket)
			Gross Weight	430 g	520 g
			Ingress Protection	IP52	IP52
			Certification	CE/FCC	CE/FCC

ENABLING A SAFER SOCIETY AND SMARTER LIVING

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*Design and specifications are subject to change without notice.

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