



Dahua Mobile Products



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Mobile Recorders

A blue bus is driving on a two-lane road that curves to the right. The sky is bright blue with scattered white clouds. The road is paved with asphalt and has a white line marking. There are green trees and a grassy area on the left side of the road. A small car is visible in the distance on the road.

MOBILE PRODUCTS

Overview

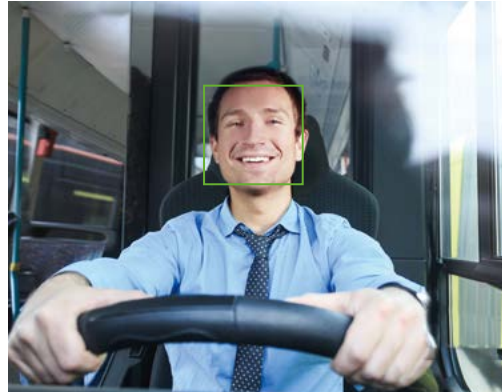
With the advent of AI transformation in the mobile industry, Dahua Technology, a world leading video-centric smart IoT solution and service provider, launched its Smart Bus Solution. This solution aims to solve the challenges related to security, efficiency and value. For example, AI technologies like 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)

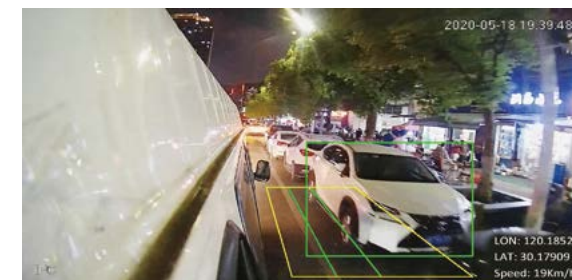
The DSM camera adopts global exposure CMOS, with capturing speed of up to 60 frames per second. Its optimized exposure mode effectively prevents deformation on the face image.

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**.

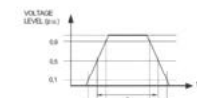
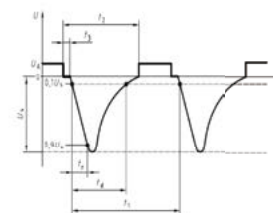


Figure 1: Test waveform

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

Voltage level min.	Duration d max.	Duration D max.	Series Resistor (Tol. $\pm 10\%$)
1.40V	0.1s	1.0s	1.0

| Camera

Low Illumination

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



Before



After

WDR

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



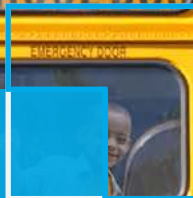
WDR Off



WDR On

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**

HDCVI Mobile Cameras

Model	HAC-HMW3200	HAC-HMW3200L-FR-BUS	HAC-HMW3200L-FR	HAC-HMW3200L	HAC-HDBW2241F-M-A	HAC-HDB2241F-M-A
Appearance						
Image Sensor	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.8" 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	0.02Lux/F2.0, 0Lux IR on	0.004Lux/F1.6, 0Lux IR on	0.004Lux/F1.6
Lens	2.8mm (2.1mm Optional)	2.1mm (Rear), 2.8mm (Front)	2.1mm (Rear), 2.8mm (Front)	2.1mm	3.6mm (2.8mm Optional)	2.1mm
FOV-H	106° (133°)	132° (Rear), 109° (Front)	132° (Rear), 109° (Front)	132°	86.9° (110°)	133°
Day/Night	Auto (ICR) / Manual	Auto ICR (Rear), Color (Front)	Auto ICR (Rear), Color (Front)	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual
Max. IR Distance	20m (66ft), Smart IR	3m (9feet), Smart IR	3m (9feet), Smart IR	3m (9feet), Smart IR	20m (66ft), Smart IR	N/A
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	120dB	120dB
Noise Reduction	2D	2D	2D	2D	2D/3D	2D/3D
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	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)	HD/SD Switchable (Aviation Connector)
Audio In	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic	1ch in & Built-in Mic	1ch in & Built-in Mic
Pan/Tilt/Rotation	Tilt: 0°~180°	Pan: 0° ~ 30° Tilt: 0° ~ 120° Rotation: 0° ~ 360°	Pan: 0° ~ 30° Tilt: 0° ~ 30° Rotation: 0° ~ 360°	Pan: 0° ~ 40° Tilt: 0° ~ 55° Rotation: 0° ~ 360°	Pan: 0° ~ 60° Tilt: 0° ~ 80° Rotation: 0° ~ 360°	Pan: 0° ~ 60° Tilt: 0° ~ 80° Rotation: 0° ~ 360°
Ingress Protection	IP67,IP6K9K	--	--	--	IP67, IK10,IP6K9K	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)	-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	DC12V±30% Max 1.9W	12V DC ±30% Max. 4.3W	12V DC ±30% Max. 2.2W

MOBILE PRODUCTS

HDCVI Mobile Cameras

Model	HAC-HDBW3200F-M	HAC-HDB3200F-M	HAC-HMW3200D-H/V	HAC-HDW3200G-M	HAC-HUM3200G-M
Appearance					
Image Sensor	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.02Lux/F2.0, 0Lux IR On	0.02Lux/F2.0	0.02Lux/F2.0, 0Lux IR on	0.02Lux/F2.0, 0Lux IR On	0.02Lux/F2.0
Lens	2.8mm	2.1mm	2.8mm	3.6mm (2.8mm Optional)	2.8mm
FOV-H	106°	133°	106°	84° (101°)	117°
Day/Night	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual	Auto (ICR) / Manual
Max. IR Distance	20m (66ft), Smart IR	N/A	20m (66ft), Smart IR	20m (66ft), Smart IR	N/A
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
WDR	DWDR	DWDR	DWDR	DWDR	DWDR
Noise Reduction	2D	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	Built-in Mic	Built-in Mic	--	Built-in Mic	--
Pan/Tilt/Rotation	Pan: -30°~30° Tilt: 0°~80° Rotation: 0°~360°	Pan: -30°~30° Tilt: 0°~80° Rotation: 0°~360°	NA	Pan: 0°~360° Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360° Tilt: 0°~90° Rotation: 0°~360°
Ingress Protection	IP67, IK10, IP6K9K	IP67, IK10, IP6K9K	IP67, IP6K9K	IP67, IP6K9K	IP67, 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)	-40C ~ +60°C (-40°F ~ +140°F)
Power	DC12V±30% Max. 2.6W	DC12V±30% Max. 1.1W	DC12V±30% Max. 3.1W	DC12V±30% Max. 2.3W	DC12V±30% Max 1.1W

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

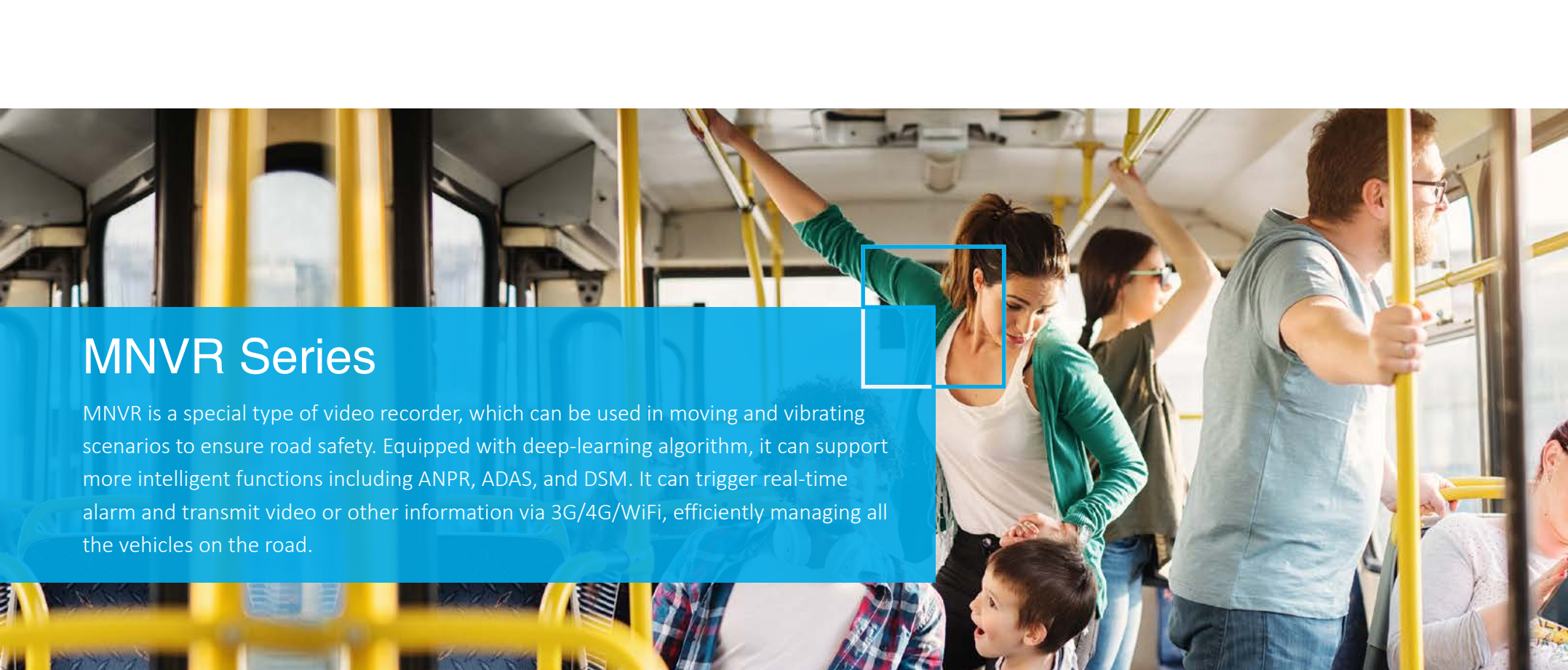
Mobile Camera

Model	IPC-HDBW5241F-M/M12-SA	IPC-HDBW3241F-FD-M/M12	IPC-HDBW4431F-M/M12	IPC-HDBW3231F-M/M12
Appearance	 Wiz Mind DHCP Starlight+	 Wiz Mind Starlight+	 Starlight	 Starlight+
Image Sensor	1/2.8 2MP progressive scan CMOS	1/2.8 2MP progressive scan CMOS	1/3" 4MP CMOS	1/2.8" 2MP progressive scan CMOS
Lens	2.8 mm; 3.6 mm; 6 mm; 8 mm	2.8mm; 3.6mm; 6mm; 8mm; 12mm	2.8mm; 3.6mm; 6mm	2.8mm; 3.6mm; 6mm
FOV-H	106° / 87° / 54° / 40°	110° / 89.5° / 52.8° / 39.7° / 25.7°	104°/87°/55°	110° / 89.5° / 52.8°
Min. Illumination	0.002 Lux @ F1.6	0.003 Lux @ F2.0	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	50 m	50 m	20m	23m
Video Compression	H.265/H.264H/H.264/H.264B/MJPEG (Sub Stream)	H.265/H.264H/H.264/H.264B/MJPEG (Sub Stream)	H.265/H.264H/H.264/MJPEG	H.265/H.264H/H.264/MJPEG
Smart Codec	1080P (1920×1080)	1080P (1920×1080)	4M (2688×1520)	1080P (1920×1080)
Max. Resolution	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 (Tripwire, Intrusion, Fast Moving, Loitering Detection, People Gathering, Parking Detection); Face Detection; People Counting	Face Capture; Face Attributes; People Counting	VS (Tripwire, Intrusion, Object Abandoned/Missing), Face Detection	Tripwire, Intrusion
Compatibility	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	ONVIF; CGI; 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)	N/A	Micro SD, Max. 128GB	Micro SD card 128GB
Alarm In/Out	N/A	N/A	N/A	N/A
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. 6.2W	DC12V, PoE (802.3af) Max. 4.5W	DC12V, PoE (802.3af) Max. 5W

IP Mobile Cameras

Mobile Camera

Model	IPC-MBW4431-AS/M12	IPC-MBW4231-AS/M12	IPC-MW1230D-HM12/VM12	IPC-HDBW4231F-E2-M12	IPC-EB5541-M/M12
Appearance		 		 	 
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP progressive scan CMOS	Two 1/2.8" 2MP STARVISTM CMOS	1/2.7" 5MP CMOS
Lens	2.8mm; 3.6mm; 6mm	2.8mm; 3.6mm; 6mm	2.8mm; 3.6mm; 6mm	2.8mm	1.4mm
FOV-H	104°/82.5°/55°	110°/87°/52°	115° / 86° / 53°	110°	180°
Min. Illumination	0.08 Lux@F2.0	0.009 Lux@F2.0	0.02 Lux@F2.1	0.009 Lux@F2.0	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	120dB	120dB
Max. IR Distance	30m	30m	30m	20m	N/A
Video Compression	H.265/H.264H/H.264/MJPEG	H.265/H.264H/H.264/MJPEG	H.265/H.264H/H.264/MJPEG	H.265/H.264H/MJPEG (Sub Stream)	H.265/H.264H/H.264/H.264B/MJPEG (Sub Stream)
Smart Codec	4M (2688×1520)	1080P (1920×1080)	1080P (1920×1080)	2MP (1920×1080)	5M (2592×1944)
Max. Resolution	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@1080p	25/30 fps @5MP
Multi-streaming	3 Streams	3 Streams	2 Streams	2 streams	3 streams
Pan/Tilt/Rotation	Pan: 0°~20°; Tilt: -15°~15° Rotation: 0°~360°	Pan: 0°~20°; Tilt: -15°~15° Rotation: 0°~360°	N/A	Pan: -90°~90°; 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	N/A	Tripwire, Intrusion, Object Abandoned/ Missing, Face Detection	IVS(Tripwire, Intrusion), People Counting
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF profile S, CGI	ONVIF Profile S & G, API	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)	N/A	Built-in Mic	Built-in Mic 1/1 channel In/Out (-AS Model)
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB	N/A	Micro SD card 128GB	Micro SD card 256GB
Alarm In/Out	1/1 channel In/Out (-AS)	1/1 channel In/Out (-AS)	N/A	N/A	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)	-30° C ~ +60° C (-22° 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	-M: DC12V, PoE (802.3af) -M12: PoE (802.3af) Max. 6W	-M: DC12V, PoE (802.3af) -M12: PoE (802.3af) Max. 6W



MNVR Series

MNVR is a special type of video recorder, 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 ANPR, ADAS, and DSM. 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 ANPR, Advanced Driver Assistance System, Driver Status Monitoring, as well as Face Comparison in 8 series.

MNVR Series

Model	MNVR8104/8208-I Series	MNVR4104/4208 Series	MCVR6208 Series	MXVR6212 Series	MXVR4104 Series	MXVR1004 Series
Appearance						
Feature	AI H.265 MNVR	H.265 MNVR	Analog HD CVR	Analog HD CVR	H.265 MXVR	H.265 Dual SD card MXVR
Decoding Resolution	4MP	4MP	8 channels 1080P	12 channels 1080P	1080P	1080P
Video Input	4/8 channel+ADAS+DSM	4/8 channel	8ch	8+4 ch	4 channel aviation connector	4 channel aviation connector
Compression	H.265/smart H.265/ H.264/smart H.264	H.265/smart H.265/ H.264/smart H.264	H.264	H.264	H.265/smart H.265/ H.264/smart H.264	H.265/smart H.265/ H.264/smart H.264
Video Output	VGA, HDMI	VGA, HDMI, TV	1ch VGA output	1ch VGA output	VGA, TV	TV
Audio talk	1 channel	1 channel	1ch	1ch	1 channel	1 channel
HDD	supports 1/2 sata HDD	Supports 1/2 sata HDD	Supports 1/2 sata HDD	Supports 2 sata HDD	Supports 1 sata HDD	--
SD Card	1 SD card	1 SD card	1 SD card	1 SD card	1 SD card	2 SD cards
Backup Mode	External USB Storage Device; Network Backup	External USB Storage Device; Network Backup	External USB storage device	External USB Storage Device	External USB Storage Device; Network Backup	External USB Storage Device; Network Backup
Alarm Input	9 channels (1-8 local alarm, 9 pulse input)	9 channels (1-8 local alarm, 9 pulse input)	9 channels(1-7 local alarm, 8.9 pulse input)	9 channels(1-7 local alarm, 8.9 pulse input)	9 channels (1-8 local alarm, 9 pulse input)	7 channels (7th is the pulse input)
Alarm 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	1 channel relay output, 1channel 12V output	1 channel relay output, 1channel 12V output
USB	2 USB3.0, 1 USB 2.0	3 USB 2.0	1 USB 2.0,2 USB 3.0	1 USB 2.0,2 USB 3.0	3 USB 2.0	2 USB 2.0
Network Interface	RJ45 (10/100/100Mbps) (Front panel)+4 POE; RJ45 (10/100/100Mbps) (Front panel)+8 POE	RJ45 (10/100/100Mbps) (Front panel)+4 POE; RJ45 (10/100/100Mbps) (Front panel)+8 POE	RJ45 (10/100Mbps) (Front panel)	RJ45 (10/100Mbps) (Front panel)	1 RJ45 (Front panel); 1 6-pin aviation connector (Rear panel)	RJ45 (10/100Mbps) (Rear panel)
RS232	2	2	2	2	2	1
RS485	1	2	2	2	1	1
CAN	1	1	1	1	--	--
GPS	optional	optional	optional	optional	optional	optional
3G/4G	optional	optional	optional	optional	optional	optional
WIFI	optional	optional	optional	optional	optional	optional
G-Sensor	gyro	gyro	gyro	gyro	g-sensor	g-sensor
Power	Built in power DC 6V-36V	Built in power DC 6V-36V	Built in power DC 6-36V	Built in power DC 6-36V	Built in power DC 6V-36V	Built in power DC 6V-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)	< 12W(without HDD)	< 12W(without HDD)	<8.4W (without HDD)	<6.7W, (without HDD)
Working Temperature	-30°C~+70°C (heater option)	-30°C~+70°C (heater option)	-30°C~+60°C (heater option)	-30°C~+60°C (heater option)	-30°C~+70°C (heater option)	-30°C~+70°C (heater option)
Size (W×H×L)	180mm×190mm×50mm	180mm×190mm×50mm	180mm×190mm×50mm	180mm×190mm×50mm	180mm×190mm×50mm	160mm×138mm×48mm
Weigh	2.1kg (gross weight)	MNVR4104:2.93Kg (gross weight) MNVR4208:3.10Kg (gross weight)	2.2Kg (without HDD)	2.2Kg (without HDD)	2.83Kg (gross weight)	1.75Kg (gross weight)
Certification	CE/FCC/EN50155/ ISO7637-2/ISO16750	CE/FCC/EN50155/ISO7637-2/ ISO16750/E-mark/BIS/EN45545-2	EN50155/CE/FCC/ISO16750/ EN45545-2/E-mark	EN50155/CE,FCC/ISO16750/ EN45545-2/E-mark	CE/FCC/EN50155/ISO7637-2/ ISO16750/BIS	CE/FCC/EN50155/ISO7637-2/ ISO16750/BIS

MOBILE PRODUCTS

Active Prevention Series		
Model	DAE-CDM5110-CY	DAE-CFM5210-CY
Appearance		
Sensor	1/4 inch CMOS	1/3 inch CMOS
Effective Pixels	1280(H) X 720(V)	1280 (H) × 720 (V)
IR Distance	1.5m	--
Electronic Shutter Speed	PAL:1/25s~1/10000s NTSC:1/30s~1/10000s	PAL:1/25s~1/10000s NTSC:1/30s~1/10000s
Frame Rate	50Hz:1280×720@25fps, 1280×720@50fps 60Hz:1280×720@30fps, 1280×720@60fps	50Hz:1280×720@25fps, 1280×720@50fps 60Hz:1280×720@30fps, 1280×720@60fps
Digital WDR	Supported	Supported
HLC	Supported	Supported
Gain Control	Auto	Auto
Focal Length	4mm	6mm
Noise Reduction	2D/3D DNR	2D/3D DNR
Field of View	Horizontal: 61.8° Vertical: 37.5°	Horizontal: 56° Vertical: 32°
Operating Humidity	<90% and non-condensation	<90% and non-condensation
Operating Temperature	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)
Power Consumption	4.2W	6W
Power Supply	DC 9V-16V	DC 9V-16V

Active Prevention Series	
Model	DAE-CDR8213-GFW
Appearance	
Sensor Type	1/2.9 inch CMOS
Effective Pixel	1920 (H) × 1080 (V)
Electronic Shutter	PAL: 1/25s~1/10000s NTSC: 1/30s~1/10000s
Video Frame Rate	50Hz: 1920 × 1080@25fps
Lens Frame	2.5 mm
Encoding	Encoding format: H.264/H.265
Video Access	3 aviation plugs with 4 cores support external 3 channels analog HD video extension import
Audio Input	Built-in 1 channel microphone collects audio, intercom available
Audio Output	Built-in 1 channel speaker output
Alarm	Alarm input: 3 channels I/O alarm input and 1 channel Bluetooth alarm
Storage	2 Micro SD cards with max storage of 128GB to store alarm video and image. In case of network failure, data is temporarily saved through 4G.
Port	1 micro USB, USB 2.0 1-Channel RS232
Vehicle Detection	G-sensor, supports steep speed acceleration, sudden stop, sudden turn, rollover and collision status detection
Intelligent Analysis	Alerts for front car start-up, green light detection and prioritize pedestrian on sidewalk
	External camera supports left items on the back seat detection
	External camera supports left items in the trunk detection
	External camera supports driver smoking, calling, yawning, looking around unfocused and leaving post detection. Face signing-in
Power Supply	DC 9V~16V
Power Consumption	≤12W
Operating Temperature	-20°C~+60°C
Operating Humidity	<90%RH (no condensation)
Dimension	125 mm × 84 mm × 34 mm
Weight	300 g (bare device)
Ingress Protection	IP52

Active Prevention Series	
Model	DAE-CDR8213-GFW
Appearance	
Sensor Type	1/2.9 inch CMOS
Effective Pixel	1920 (H) × 1080 (V)
Electronic Shutter	PAL: 1/25s~1/10000s NTSC: 1/30s~1/10000s
Video Frame Rate	50Hz: 1920 × 1080@25fps
Lens Frame	2.5 mm
Encoding	Encoding format: H.264/H.265
Video Access	3 aviation plugs with 4 cores support external 3 channels analog HD video extension import
Audio Input	Built-in 1 channel microphone collects audio, intercom available
Audio Output	Built-in 1 channel speaker output.
Alarm	Alarm input: 3 channels I/O alarm input and 1 channel Bluetooth alarm
Storage	2 Micro SD cards with max storage of 128GB to store alarm video and image. In case of network failure, data is temporarily saved through 4G.
Port	1 micro USB, USB 2.0 1-Channel RS232
Vehicle Detection	Supports face recognition, identity authentication and leaving post alarm; distracted driving, fatigue driving, smoking and calling when driving alarm
Intelligent Analysis	External camera supports alarm for distance between cars too close, lane departure, traffic sign recognition and over-speed
	External camera supports alarm for vehicle and pedestrian in blind spot
	External camera supports alarm for unfastened seatbelt and both hands away from steering wheel
Power Supply	DC 7V~36V
Power Consumption	≤12W
Operating Temperature	-20°C ~+70°C
Operating Humidity	<95%RH (no condensation)
Dimension	108 × 900 × 102 mm (with bracket)
Weight	520 g
Ingress Protection	IP52

ENABLING A SAFER SOCIETY AND SMARTER LIVING

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* Design and specifications are subject to change without notice.

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