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Specification

Date:2021

4-CH H.265 8ch AHD HDD 1080P AI Mobile DVR

Feature	The interface can operate reliably and stably in complex environments Video encoding H.265. H.264 is optional Support 4G WIFI and GPS functional modules; Supports a 2.5-inch optional SSD/HDD hard disk; Supports one SD card; Rich peripheral interfaces; Support external UPS battery life; High scalability; The AI MDVR is a high-performance and highly extensible product specially developed for vehicle-mounted video monitoring and remote video monitoring. It adopts a self-pop-up structure design of hard disk. high-speed processor Novotek 98323 dual core+NPU and embedded operating system. and integrates IT cutting-edge field H.264/H.265 video compression/decompression. 4G network. GPS/BD positioning and other technologies. It has the characteristics of strong earthquake resistance. simple appearance. flexible and convenient installation. comprehensive function and high reliability. Suitable for public security police. financial escort. long-distance passenger transport. road administration inspection and other vehicle movement monitoring fields
Model	QH-MDVR8208H-AI
SOC	Novotek 98323 dual core+NPU

Audio and Video Inputs	video input	AHD:8ch 1080/25fps
	audio input	8ch audio iuput
Audio and Video outputs	video output	Default 1-way CVBS output (VGA output optional)
	speech output	1ch audio output
Audio and video parameter coding	video coding	H.264 Main Profile/H.265
	· Resolution	1080P/720P/D1 optional
	audio coding	Default G.726.G.711A optional
storage space	HDD	1 2.5-inch optional: SSD/HDD hard disk
	SD	Support 1 SD card
wireless network	4G	Supports 1 SIM card. optional: all major communication modules in the world
	WIFI	2.4/5.8G optional
locate mode	BD/GPS	Support for mixed positioning. speed detection. time synchronization
interface	USB	USB2.0 interface. support export data. external engineering treasure
	serial port	Support 1 RS232. 1 RS485. can be connected with external sensor
	I/O	4 level inputs. 2 analog inputs. 2 alarm outputs
	network interface	Support external IPC. support hybrid NVR function
	Intercom	1 special intercom handheld mark interface
	operating temperature	-20〜+70℃

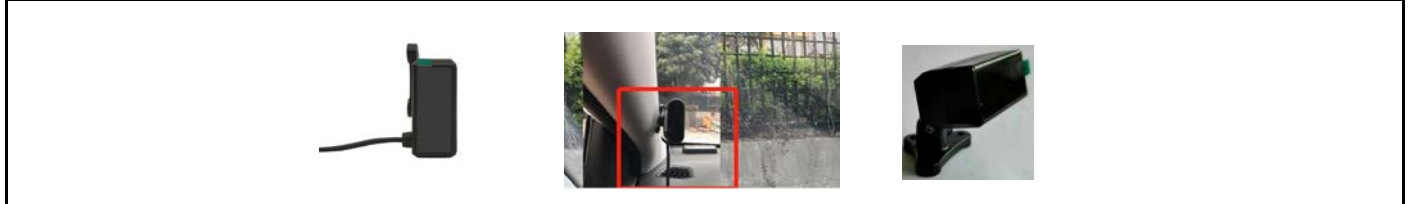| work environment	operating humidity	·8%～90%（No condensation）
Other	operator schema	remote control、APP、WEB
	Gravity sensor	Built-in G-Sensor
	Configurable AI algorithms	Face recognition.eople Counting
G-Sensor	Internal G-Sensor	Supports 3 Axis Motion Detection with user set ranges, for X, Y and Z coordinates
Software	PC Playback	A/V, GPS, Mapview, Speed, G-Sensor, etc. files available for playback on PC. Limited playback is also available on MDVR
	CMS	Wireless (require Wi-Fi or cellular Option) real-time A/V monitoring, GPS, alarms, etc.
Software Upgrade	Local or Remotely	Upgrade through the front USB2.0 or remotely via CMS platform
Voltage Input	+8～+36V	8～36VDC Please check operational voltage of vehicle prior to the installation of the MDVR and its accessories to prevent possible damage
Voltage Output	12V	12V(+/-0.2V) 1A
Power Consumptin	12V	600mA(not include camera and others peripheral)
ACC Detection	≤4V	Power Off
	≥6V	Power On
Video Input Resistance	75Ω	75Ω
Video Output Voltage	2Vp-p	2VP-P CVBS output analog signal, screen input requires 75Ω resistance
I / O port	<1V	Low voltage trigger
	>5V	High voltage trigger
Working Humidity	10%～95%	
Operation Temperature	-40℃～85℃	Install in well ventilated area, protected from moisture, heat, dust and vibration
Physical Specifications	size	199(W)mmx76(H) x 190(L)mm
	weight	NW:2.5kg
		GW:3.0kg

ADAS camera

Spec	a. Adopting two million pixel progressive scan CMOS to capture moving images without aliasing. b. Supports coaxial HD output. the image is clear and delicate. the resolution is up to 1080p. and 720P output is supported. c. Ultra-low illumination. 0.001Lux @ (F1.2. AGC ON). supports digital wide dynamic. suitable for various light changes. and reduces the impact of camera images on algorithms. d. The camera has strong adaptability to the environment (4000V video lightning protection. anti-static circuit design. -20~70℃ working temperature range) e. Wide voltage design. effectively reducing the impact of voltage fluctuations on the equipment f. With full glass lens. the angle is more suitable for vehicle. and the picture quality is clearer. g. Exclusive private mold. high temperature resistant plastic material. no deformation at 110 degrees.
Feature	Lane Departure Warning(LDW); Front Collision Warning(FCW); Pedestrian Collision Warning(PCW); Vehicle Distance Monitoring Warning(HMW); Warning Sequence:PCW>FCW>HMW>LDW

Model	Name	ADAS camera
Model		QH-ADAS20 or QH-MC1205-ADAS
Camera parameter	Sensor type	2.13Mega Progressive Scan CMOS
	Sensor chip	1/2.8 CMOS IMX307
	Effective pixel	1945(horizontal)*1097 (vertical)
	Default resolution	1920*1080 (optional 1280*720)
	Minimum illumination	0.001Lux
	Electronic shutter	auto
	BLC	AUTO
	AES	AUTO/ 1/50 (1/60) -1/50.000sec
	Signal system	PAL/NTSC (OSD set)
	AWB	AUTO
	WDR	WDR
	Video output	AHD (optional TVI/CVI/CVBS)
	SNR	≥50dB
	AGC	Have
	MIR	optional
	OSD	Support 8 languages
	BLC	YES
	DNR	3D
Parameter of lens	Lens	6G
	Focal	6MM (optional 3.6MM/8MM)
	Relative aperture	F1.2
	FOV	D=71 H=56 V=32
Generic specification	Working tenmperature	-20℃~70℃.The humidity is less than 90%
	Power supply	12V(WDR9V-18V)
	IR LED	no
	Current	90mA ±6mA
	IP rate	
	Video output	AHD 1.0Vp-P75Ω
	size（mm）	64(W)*75(W)*45(W)
	Weight	120g

DMS camera-Dashboard installation

Spec	a. Support coaxial HD output. the image is clear and delicate. the resolution is up to 960p b. Use 1.3million pixel progressive scan CMOS to capture moving images without aliasing c. Low illumination. 0.01Lux @ (F1.2.AGC ON). 0 Lux with IR940 d. Single pass filter. pure black and white mode. e. The camera has strong adaptability to the environment (4000V video lightning protection. anti-static interference circuit design. -20~70℃ working temperature range) f. Wide voltage design. effectively reducing the impact of voltage fluctuations on the equipment g. Using full glass lens. the angle is more suitable for vehicles. and the picture quality is clearer h. Support effect debugging. matching various algorithms.
Feature	**Fatigue Driving Alarm:** **Driver Abnormal Alarm:** **Smoking Alarm:** **Calling Alarm:** **Driver Identification Alarm:** **Cover Camera Alarm(The camera is blocked):** The accuracy rate is more than 95%, and the total time delay between recognition and alarm is less than 2s. **Distracted Driving Alarm:** The accuracy rate is more than 90%, and the total time delay between identification and alarm is less than 1s.

Model	QH-DMS60
Module type	1.3 million pixels AHD module
Max resolution	1292(H) × 968(V)
Standard	PAL/ NTSC
Total pixels	1.3MP
Minimum illumination	0.01LUX
Electronic shutter	PAL :1/50 ～ 1/100.000s
SNR	> 41dB
WB	Auto
ICR	Black and white model
D-WDR	Open
Image	NO
UTC	Open
Language	Default English
Video output	1.0Vp-p Composite output .75Ω
Lens	6MM.940 Narrowband filter
Perspective	horizontal 46°
Interface	M12 4pin aviation interface
Power	DC 12V±10%(support wide voltage（9-16V）
Working temperature	-20℃～70℃
Working humidity	Relative humidity is lower than 90%
Size	59mm（W）* 62mm（H）*42mm（L）
Package	Accessories package.certificate of qualification

DMS camera-Side installation

Spec	a. Support coaxial HD output. the image is clear and delicate. the resolution is up to 960p b. Use 1.3million pixel progressive scan CMOS to capture moving images without aliasing c. Low illumination. 0.01Lux @ (F1.2.AGC ON). 0 Lux with IR940 d. Single pass filter. pure black and white mode. e. The camera has strong adaptability to the environment (4000V video lightning protection. anti-static interference circuit design. -20~70℃ working temperature range) f. Wide voltage design. effectively reducing the impact of voltage fluctuations on the equipment g. Using full glass lens. the angle is more suitable for vehicles. and the picture quality is clearer h. Support effect debugging. matching various algorithms.
Feature	**Fatigue Driving Alarm:** **Driver Abnormal Alarm:** **Smoking Alarm:** **Calling Alarm:** **Driver Identification Alarm:** **Cover Camera Alarm(The camera is blocked):** The accuracy rate is more than 95%, and the total time delay between recognition and alarm is less than 2s. **Distracted Driving Alarm:** The accuracy rate is more than 90%, and the total time delay between identification and alarm is less than 1s.

Model	QH-DMS60A
Module type	2.0 million pixels AHD module
Max resolution	1920(H) × 1080(V)
Standard	PAL/ NTSC
Total pixels	2.0MP
Minimum illumination	0.01LUX
Electronic shutter	PAL ：1/50 ～ 1/100.000s
SNR	> 41dB
Lens	3.91mm
WB	Auto
ICR	Black and white model
D-WDR	Open
Image	NO
UTC	Open
Language	Default English
Video output	1.0Vp-p Composite output .75Ω
Lens	6MM.940 Narrowband filter
Perspective	horizontal 46°
Interface	M12 4pin aviation interface
Power	DC 12V±10%(support wide voltage（9-16V）
Working temperature	-20℃～70℃
Working humidity	Relative humidity is lower than 90%
Package	Accessories package.certificate of qualification

BSD Camera

Spec	**Right Rear BSD:** The camera should be installed on the right rear side of the vehicle. In order to better detect pedestrians in the blind area, the camera installation height should be above 1.65 meters, and the camera angle should be adjusted to slightly face outwards. **Right Front BSD:** The camera should be installed above the vehicle's right front box. In order to better detect pedestrians in the blind area, the camera installation height should be above 2.5 meters, and the camera angle should be adjusted to a slight backward tilt. The camera installation height and tilt angle need to be Adjust according to the car model to ensure that the camera can effectively take into account the range of 2 meters in front of the front of the car after the camera is installed. It is necessary to avoid the rearview mirror to avoid obstruction. **Front BSD:** The front BSD camera is installed under the reflector on the right side of the front of the car. The installation height should be about 2.8 meters. The camera is slightly turned to the left to ensure that the camera can effectively take into account the range of 1 meter on the left and right of the car and 3 meters forward.
Model	**QH-BSD610**
Module type	1080P,200W CMOS,IMX307
Max resolution	1920x1080
Standard	PAL/ NTSC
Total pixels	2.0MP
Minimum illumination	0.01LUX
Electronic shutter	PAL :1/50 ～ 1/100.000s
SNR	> 41dB
WB	Auto
Lens	3.6mm / 1.98mm /1.98mm
Installation	