MingShang Technology Product Selection Guide

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Company Introduction

Two Decades of Industry Expertise, Tier 1 Supplier to Global Automotive Leaders

Since its establishment in 2003, MingShang Technology has cultivated robust R&D, manufacturing capabilities, and technological advantages. The company has established strong partnerships with global automotive leaders including BYD, Yutong Bus, Sany Group, XCMG, Caterpillar, and Dongfeng Commercial Vehicle. It has also secured strategic investments from ArcSoft, Horizon Robotics, Patech, Zijin Mining, and Shenzhen Smart City.

Full-Stack Smart Driving Solutions for Commercial Vehicles: Hardware & Software Integrated

Providing integrated full-stack commercial vehicle intelligent driving solutions encompassing both software and hardware. Software offerings include automotive-grade domain controllers, visual perception systems, algorithms, and telematics solutions. Hardware capabilities feature in-house developed LVDS, ADAS, BSD, and DMS cameras, alongside various infotainment displays and specialized automotive wiring harnesses. Additionally, we serve as a Tier 1 integrated supplier for millimeter-wave radar and lidar products.

Advanced R&D, Manufacturing, and Engineering Prowess

The company boasts a dedicated R&D team of over 100 professionals, with PhDs accounting for over 6%, master's degree holders and above exceeding 40%, and bachelor's degree holders and above reaching 95%. This elite team spans multiple domains including structural design, hardware, software development, and AI algorithms. MingShang Technology's automated production workshops are equipped with industry-leading automated manufacturing equipment. The company is advancing the construction of a smart factory integrating “digital intelligence, informatization, and connectivity” to respond more efficiently and agilely to customers' diverse needs. Concurrently, Mingshang Technology is establishing a manufacturing facility in Malaysia to ensure reliable delivery to overseas markets.

Recognized for Excellence: Industry Accolades and Certifications

Awarded as a “National High-Tech Enterprise,” a national-level specialized, refined, distinctive, and innovative key “Little Giant” enterprise, the Guangdong Provincial Engineering Technology Center for Vehicle-mounted Intelligent Driving Assistance Systems, one of China's Top 100 Innovative SMEs, a Guangdong Provincial Intellectual Property Demonstration Enterprise, certified under the CMMI Level 3 framework, a Guangdong Provincial Incubator Cultivation Unit in Huizhou City, the "Anchor Enterprise" of the Huiyang Auto Parts Industry Chain, and a Guangdong Provincial Doctoral Workstation.

MINGSHANG

Corporate Qualifications

















2.1 Remote Driving Control System





Features

- The remote driving and recovery system for mining trucks enables operations like nuclear plant equipment management, and underground machinery control. With simple secondary development, the system can be adapted for remote recovery and control in environments such as ports, nuclear facilities, and underground equipment environments.
- Complete solution encompassing vehicle-based, cloud-based, and remote cabin-based components
- 8-channel LVDS 1080P/25fps video input, supporting multiple configurations such as front/rear/left/right + AEB or front/rear/left/right + 4-channel surround view.
- Remote control of mining trucks (steering, acceleration, braking, shifting, parking, start/stop, etc.), remote operation (bucket lifting, bucket lowering)
- Remote cockpit management supports configuration for taking control of no fewer than one-to-four autonomous vehicles. It manages remote cockpit control requests, ensuring that at any given time, a single remote cockpit controls only one vehicle exclusively.
- Vehicle-mounted video streaming displayed on the remote cockpit's wide-screen monitor

Domain Controller Configuration

Operating System	Linux
Processor	HorizonJ3×2 (10 Tops)
Microcontroller Unit (MCU)	KF32A153
Memory	8GB LPDDR4 (2GB, 4GB optional)
Storage	16GB (32GB optional)
5G Module	SIM8200EA-M2
Camera Input	8×GMSL/GMSL2 720p or 1080p 25fps RX9296A, TX9295
Video Output	HDMI 2.0 1080p output
Ethernet	2×T1 Gigabit Ethernet ports, 1×Standard Gigabit Ethernet port
Wi-Fi	2.4 GHz 802.11b/g/n
Bluetooth	Bluetooth 4.0 and above
Positioning	GPS, BeiDou, supports high-precision positioning
SD Card	2×256GB, total 512GB
Solid-State Drive (SSD)	2TB (supports 1TB/512GB)
CAN	6×CAN2.0
USB	1×USB3.0 (TYPE-A), 1×USB2.0 (Micro USB, for system flashing)
Serial Port	1×RS232, 1×RS232 DEBUG, 1×RS485
Audio	1×MIC, 1×Line Out
General-Purpose Input/Output (GPIO)	2×GPIO, 8×GPIO (CPLD bidirectional configurable)
LED	SSD, SD, GPS, RUN, REC, GPIO, POWER, 5G
Synchronization Signal Port	Synchronization signal port
Over-the-Air (OTA) Update	Supported

Domain Controller Electrical Parameters

Power-on Time	≤10 seconds
Quick Reverse	≤3 seconds
Operating Voltage and Range	12/24V, range (9V~32V)
Maximum Operating Current	10A
Quiescent Current	≤5mA
Operating Temperature	-40℃ to +85℃
Storage Temperature	-40℃ to +85℃
Protection	IP65
Shock Resistance	9.73G
Reliability	≥10,000 hours
Certification	EMC, OTS

2.2 4-Channel HD 360-Degree Panoramic System

Features

- 4-Channel HD 360 Dashcam Hub (Requires separate display)
- 4-channel AHD video input, supports 720P
- Supports 360° panoramic image overlay with BSD pedestrian detection
- Utilizes an ultra-compact calibration cloth suitable for all terrains
- Features a one-button, guided calibration process that eliminates the need to draw frame lines, measure vehicle dimensions, or input sizes
- Supports CAN or I/O high-level triggering, display channel switching
- USB upgrade
- Complies with EMC, FCC, CE, E-mark, and other safety standards



Technical Specifications

Product Model	**MS-621**		
Operating System	Linux	**Operating Voltage**	9V~32V
Video Input	4×AHD720	**Operating Temperature**	-30℃~+75℃
Video Output	1×AHD720	**Storage temperature**	-40℃~+85℃
Interface	USB、3×I/O、2×CAN	**Certification**	EMC、OTS



2.3 6-Channel HD 360-Degree Panoramic System

Features

- 6-Channel HD 360° Dashcam Hub (Requires separate display)
- Multiple application combinations: 270° + 2 blind-spot cameras + reverse view, 6-channel AVM stitching, 6-split display
- Supports single-channel video + BSD pedestrian detection, 360° + BSD pedestrian detection
- Ultra-compact calibration cloth, suitable for all terrains
- One-click calibration installation with guided setup—no need to draw frame lines, measure vehicle dimensions, or input sizes
- Remote calibration via built-in Wi-Fi/Ethernet when calibration site setup is unavailable
- Supports guide lines/digital distance assistance
- Recording: TF card storage & video playback
- Supports CAN/I/O high-level triggering for channel switching
- Supports both USB and OTA upgrades (OTA functionality is under development)



Technical Specifications

产品型号	**MS-612**		
CPU	4×A55（2GHz，NPU 1Tops），AEC-Q100	**Operating Temperature**	-30℃~+75℃
		Storage Temperature	-40℃~+85℃
Operating System	Linux	**Protection**	IP54
Video Input	6×AHD720/1080	**Shock Resistance**	4.41G
Video Output	1×AHD720/1080	**Certification**	EMC、OTS
Interface	USB、SD、3×I/O、2×CAN		
Operating Voltage	9V~32V		



2.4 4-Channel HD 360-Degree Panoramic Display All-in-One Unit

Features

- 7-inch 4-Channel HD 360° Panoramic Display All-in-One Unit
- HD 1024×600 display, multi-touch capacitive touchscreen
- 4-channel split view, optional 4-channel AVM stitching application
- Supports single-channel video + BSD pedestrian detection, 360° + BSD pedestrian detection functions
- Ultra-compact calibration cloth, suitable for all-terrain installation
- One-touch calibration, no need to draw frame lines, measure vehicle dimensions, or input sizes—guided installation
- Supports guide lines/digital distance assistance
- Supports TF card recording storage and video playback
- Supports CAN, I/O high-level triggering, display channel switching
- Upgrade method: Supports USB upgrade



Technical Specifications

Product Model	MS-721		
Display	7-inch 1024×600	Interface	USB、SD、3×I/O、2×CAN
Touchscreen	Capacitive touchscreen		
CPU	4×A55 2GHz, NPU 1Tops，AEC-Q100	Operating Voltage	9V~32V
		Operating Temperature	-30℃~+75℃
Operating System	Android 9.0	Storage Temperature	-40℃~+85℃
Video Input	4× AHD 720/1080	Protection/Shock Resistance	IP65/4.41G
Video Output	1× AHD 720/1080	Certification	EMC、OTS

2.5 6-Channel HD 360-Degree Panoramic Display All-in-One Unit

Features

- 7-inch 6-Channel HD 360° Panoramic Display All-in-One Unit
- HD 1024×600 display, multi-touch capacitive touchscreen
- 270° + 2 blind spot cameras + backup view, 6-channel AVM stitching, 6-split display, and more application combinations
- Supports single-channel video + BSD pedestrian detection, 360° + BSD pedestrian detection
- Ultra-compact calibration cloth, suitable for all-terrain installation
- One-click calibration with guided setup—no need to draw frame lines, measure vehicle dimensions, or input sizes
- Remote calibration via built-in Wi-Fi and Ethernet port for calibration without dedicated setup area
- Supports guide lines/digital distance assistance
- Supports TF card recording storage and video playback
- Supports CAN/I/O high-level triggering for display channel switching
- Supports USB and OTA upgrades (under development)



Technical Specifications

Product Model	MS-666		
Display	7-inch 1024×600	Interface	USB、SD、3×I/O、2×CAN
Touchscreen	Capacitive touchscreen		
CPU	4×A55 2GHz, NPU 1Tops，AEC-Q100	Operating Voltage	9V~32V
		Operating Temperature	-30℃~+75℃
Operating System	Linux	Storage Temperature	-40℃~+85℃
Video Input	6×AHD720/1080	Protection/Shock Resistance	IP54/3G
Video Output	1×AHD720/1080	Certification	EMC、OTS

2.6 ADAS Lane Departure Warning System

Features

- Camera + AI Algorithm (ADAS) All-in-One Unit
- Pedestrian Collision Warning (PCW)/Lane Departure Warning (LDW)
- Urban Forward Collision Warning (UFCW)/Forward Collision Warning (FCW)
- Headway Monitoring Warning (HMW)/Speed Limit Sign Recognition (SLI)
- AHD Video Output
- 2-Channel CAN Interface, Compatible with Vehicle CAN and Intelligent Driving Components (e.g., radar integration for EV/ER fusion to enhance warning accuracy)
- USB Supports Software Updates and Mouse Control



Technical Specifications

Product Model	MS-623RK		
Operating System	Linux	Video Output	AHD720
Operating Language	Chinese, English	Video Output Port	4P Aviation Connector
Operating Interface	USB mouse operation	USB Port	Supports USB upgrade, mouse operation
Image Video	Resolution: 1080	CAN	2×CAN
	Horizontal angle: 47° ± 3°	Operating Voltage	9V~32V
	Vertical angle: 28° ± 3°	Operating/Storage Temperature	-40°C~+85°C
	Mounting angle: Adjustable ±20°	Certifications	EMC, OTS

2.7 DMS Fatigue Driving System

Features

- Camera + AI Algorithm (DMS + Identity Recognition) All-in-One Unit
- Total of 3 video channels (DMS includes 1 channel), supports 2 external surveillance cameras
- Alerts for yawning, head-down posture, smoking/phone use, distracted driving, and camera obstruction
- Facial recognition and identity verification capabilities
- Supports 720P/1080P resolution, HDR wide dynamic range, clear imaging, and reliable recognition of faces with uneven lighting
- Compatible with cloud platforms adhering to JT/T 808, 794, 1076, 1078, and other ministry-level protocols
- Enables remote configuration, calibration, and installation via mobile app
- Supports AHD audio/video output
- Supports TF card video storage
- Supports OTA and TF card software upgrades
- 1W speaker for warning alerts
- Optional interfaces: CAN, 4G, Wi-Fi, IPC Ethernet port, SIM card slot, TF card slot, serial port
- Operating voltage: 9V~36V
- Complies with EMC, FCC, CE, E-mark safety standards
- USB port supports software upgrades and mouse control



Technical Specifications

Product Model	MS-807RK		
Operating System	Linux	Image Video	Resolution: 1080
Operating Language	Chinese, English		Horizontal Angle: 47° ± 3°
Operating Interface	USB mouse operation		Vertical Angle: 28° ± 3°
Video Output	AHD720		Mounting Angle: Adjustable ±20°
Video Output Port	4P aviation connector	USB port	Supports USB flash drive upgrades, mouse operation
CAN	2×CAN	Operating temperature	-40°C to +85°C
Operating Voltage	9V~32V	Storage temperature	-40°C to +85°C
Certification	EMC, OTS		

2.8 MOIS+BSIS EU Regulatory System

Features

- Compliance with regulatory requirements for MOIS (Main Object Monitoring System) and BSIS (Blind Spot and Side Safety System)
- The front camera handles MOIS, while two cameras on the left and right sides handle BSIS
- Camera resolution: 1080P
- Blind spot detection for pedestrians, cyclists, and lens obstruction
- A small display mounted on the A (or B) pillar shows and announces alerts
- Supports configurable parameters including pedestrian/cyclist detection sensitivity, detection models, and language settings
- Multiple alert methods to warn drivers and pedestrians
- In-vehicle alert 1: Small display provides alerts via icons and audible tones
- In-vehicle alert 2: Display shows real-time video with alert overlay
- External alert: Audible/visual alarm with voice prompts for pedestrian warnings
- Mobile app calibration: Configure camera parameters and perform calibration
- External display output: 3 channels of Full HD 720P/1080P video (Overlaying pedestrian/vehicle tracking and alert markers) Supports OTA updates





Technical Specifications

Product Model	MS-C033OV		
Video Input	3×1080 HDR≥120dB	Operating Voltage	9V~32V
Video Output	AHD720/1080	Operating Temperature	-40℃~+85℃
Video Output Port	4P aviation connector	Storage Temperature	-40℃~+85℃
CAN	2×CAN	Certification	EMC、CE、E-Mark

2.9 Height Restriction and Collision Prevention System

Features

- Detects height-restricted structures such as overhead barriers, arches, bridges, tunnel entrances, and culverts;
- Recognizes height restriction signage numbers and issues alerts when clearance is lower than vehicle height
- Measures clearance in real-time, triggering audible and visual warnings when clearance is insufficient and collision risk exists
- Configurable Level 1 and Level 2 warning thresholds based on distance to height-restricted objects
- Reserves a CVBS standard interface to output distortion-corrected video streams from the left camera, adding real-time watermarks to the display.
- TF card stores video footage and alert information at the moment of alarm.
- Voice alarm output power: 2W.
- Main connector handles power cable and CAN network connections.
- Integrates EV+ER and interfaces with cloud platforms (under development).
- Supports daytime/nighttime (with supplemental lighting)/post-rain/snow scenarios at speeds not exceeding 80kph during testing.

Technical Specifications

Product Model	MS-C810RK		
Sensor	1/3英寸Progressive Scan CMOS	False Alarm Rate	<5%
Minimum illuminance	Color 0.01Lux@F1.2, Black and white0.001Lux@F1.2 (Infrared lamp activated)	Video Recording Storage	TF card
		Video Output	4P aviation connector
Output pixels	1080p 25/30fps	CAN	2×CAN
HDR	≥120dB	Operating Voltage	9V~16V
Measurement range	Height: 2m to 7m; Width: 0.5m to 4m	Operating Temperature	-30℃~+85℃
Measurement height error	Distance: Within 30m ±15cm, 30-60m ±25cm	Storage Temperature	-40℃~+85℃
Minimum test size	>10cm (height); >50cm (width)	Certification	EMC、FCC、CE、E-Mark
Maximum test distance	≥60m		



3.1 Intelligent Cockpit for Construction Machinery

Features

- LCD Instrument Cluster + IVI Ecosystem (Radio, Smart Voice Control, Mobile Screen Mirroring, Audio/Video, Weather, Bluetooth Music & Calls) + AI (Facial Recognition, DMS, Counterweight Recognition + Rope Tangling Detection + Truss Boom and Telescopic Boom Force Limiter Models) + MDVR + Telematics (GB/T28181)
- 5 AI Algorithms (Face Recognition, DMS, Counterweight Recognition + Rope Tangling Detection + Boom and Telescopic Arm Force Limiter Models)
- Supports online/offline intelligent voice control with 400 custom engineering-specific terms and dual-mic pure software noise reduction technology
- 12-channel 1080 AHD video input, supporting combination applications like surround view and AI-assisted cameras Multi-screen independent display: Three displays show distinct content (e.g., instrument panel, IVI, auxiliary operations), or one screen supports 2/3 split-screen modes
- Multi-screen interchangeable display: Users can configure display content swapping for different work scenarios
- Landscape/portrait display switching, supports picture-in-picture
- Optional 4-channel CAN, Wi-Fi, BT, and 4G functional modules
- Onboard 2×T1 Ethernet (1×100M, 1×1000M)
- IPC and PTZ control
- AB partition upgrades with multiple DTS options, standalone application upgrades, and drag-and-drop functionality across screens
- Supports USB, SD card, and OTA upgrade methods





System Configuration

Product Model	MS-D102RK
Main chip	RK3588M Octa-core (4x Cortex-A76 at 2.4GHz, 4x Cortex-A55 at 1.8GHz), GPU at 800MHz, 6-core, AEC-Q100 compliant, 8nm process
Operating System	Linux
Memory	8GB DDR
Flash Memory	8GB eMMC
Video Input	12×AHD1080
IPC	1 channel
Video Output	3×LVDS resolution 1080, instrument cluster display, IVI center display, AI-assisted operation display
Radio reception	AM/FM (Global Band, Supports DAB USB External, Supports European Eureka-147)
GPS/BD	Designed for GPS+BD compatibility, supports standalone BeiDou with inertial navigation functionality
Wi-Fi	Dual-mode 2.4G+5G, Wi-Fi hotspot, supports wireless screen mirroring
Bluetooth	Android 5.2+ with Bluetooth calling & music streaming
Communication	4G Cat4, 3×T1 automotive-grade Ethernet ports (1×Gigabit, 2×100Mbps)
Audio Input/Output	2-channel MIC (intelligent voice), 2×25W
SSD	Built-in SSD up to 2TB
Other	USB 2.0×1, CAN×4, RS232×2, RS485×1

Electrical Parameters

Power-on Time	≤20 seconds
Quick Reverse	≤3 seconds
Instrument Start-up Time	≤5 seconds
DMS Start-up Time	≤20 seconds
Operating Voltage and Range	12/24V, range (9V~36V)
Maximum Operating Current	10A
Quiescent Current	≤5mA
Operating Temperature	-30℃ to +75℃
Storage Temperature	-40℃ to +85℃
Protection	IP65
Shock Resistance	5G
Reliability	≥10,000 hours
Certification	EMC, OTS

3.2 15.6-inch Dual-Monitor Lightweight Cockpit

Features

- A transparent LCD instrument cluster integrated with an IVI ecosystem (Radio, Smart Voice Control, Custom Maps, Mobile Screen Mirroring, Audio/Video, Weather, Bluetooth Music & Calls, Online Entertainment, Youku Video), SOS + MDVR + Telematics
- Separate host and display design, 1 host drives dual screens (transparent instrument cluster, drives IVI large screen)
- 15.6-inch Full HD 1080p IVI display with seamless black laminated
- capacitive touchscreen
- Supports T-BOX and AVM external expansion
- Built-in DSP Hi-Fi high-fidelity audio
- Intelligent voice recognition with pure software noise reduction
- Vehicle control: AC, windows, lights, locks, BCM, ECU, etc.
- Supports USB and OTA upgrade methods





System Configuration

Product Model	MS-D151AC
Main Chip & CPU	Ac8015, 6-core CPU (4×A53+2×R5F), AEC-Q100
Operating System	Android 9.0
Memory	8GB
Flash Memory	128GB
IVI Display	15.6-inch 1920×1080 full-laminated all-black display
Instrument Cluster Display	12.3-inch 1920×720
Touchscreen	Capacitive touchscreen
Video Input	2×LVDS
GPS	GPS (designed for GPS+BeiDou compatibility)
Wi-Fi	Dual-band 2.4G+5G, Wi-Fi hotspot, wireless phone screen mirroring
Bluetooth	Bluetooth 5.0 for music & calls
Radio Reception	AM/FM (supports DAB USB external, compliant with European Eureka-147 standard)
Power Amplifier Output	4×20W
Interfaces	3×USB (USB 3.1×1/USB 2.0×2), 2×CAN

Electrical Parameters

Startup Time	≤20 seconds
Quick Reverse	≤3 seconds
Operating Voltage	12V, range (9V to 16V)
Maximum Operating Current	10A
Standby Current	≤3mA
Operating Temperature	Display: -30℃ to +75℃; Main unit: -40℃ to +85℃
Storage Temperature	-40℃ to +85℃
Shock Resistance	3G
Reliability	≥10,000 hours
Certification	EMC, OTS

3.3 12.1-inch Eco-friendly Central Control Unit

Features

- System Features: Radio, Smart Voice Control, Maps, Mobile Screen Mirroring, Audio/Video Playback, Weather, Bluetooth Music & Calls, Online Entertainment
- 12.1-inch HD display with capacitive touchscreen
- 4-channel AHD 720/1080 input, supporting 4-way application or AVM
- Compatible with T-BOX and AVM external expansion
- Intelligent voice control with pure software noise reduction
- Vehicle body control including AC, windows, lights, locks, BCM, ECU, etc.
- Supports USB and OTA upgrade methods





System Configuration

Product Model	MS-D005AC
Main Chip & CPU	Ac8257, Quad-core CPU (4×A53)
Operating System	Android 9.0
Memory	2GB
Flash Memory	32GB
IVI Display	12.1-inch 1024×768
Touchscreen	Capacitive touchscreen
GPS	GPS (designed for GPS+BeiDou compatibility)
Wi-Fi	Dual-band 2.4G+5G, Wi-Fi hotspot, wireless screen mirroring
Bluetooth	Bluetooth 5.0 for music & calls
Radio Reception	AM/FM (supports DAB USB external, compatible with Eureka-147 European standard)
Power Amplifier Output	4×20W (2×20W optional)
Interfaces	2×USB, 2×CAN

Electrical Parameters

Start-up Time	≤20 seconds
Quick Reverse	≤3 seconds
Operating Voltage	24V, range (18V~32V)
Maximum Operating Current	10A
Quiescent Current	≤5mA
Operating Temperature	-20℃ to +70℃
Storage Temperature	-40℃ to +85℃
Shock Resistance	3G
Reliability	≥10,000 hours
Certifications	EMC, OTS

3.4 10.1-inch Eco-friendly Central Control Unit

Features

- System Features: Radio, Smart Voice Control, Maps, Mobile Screen Mirroring, Audio/Video Playback, Weather, Bluetooth Music & Calls, Online Entertainment
- 10.1-inch HD display with capacitive touchscreen
- 4-channel AHD 720/1080 input, supporting 4-way application or AVM
- Compatible with T-BOX and AVM external expansion
- Intelligent voice control with pure software noise reduction
- Vehicle body control including AC, windows, lights, locks, BCM, ECU, etc.
- Supports USB and OTA upgrade methods



System Configuration

Product Model	MS-D101AC
Main Chip & CPU	Ac8257, Quad-core CPU (4×A53)
Operating System	Android 9.0
Memory	2GB RAM
Flash Memory	32GB Storage
IVI Display	10.1-inch 1024×600
Touchscreen	Capacitive touchscreen
GPS	GPS (designed for GPS+BeiDou compatibility)
Wi-Fi	Dual-band 2.4G+5G, Wi-Fi hotspot, wireless screen mirroring
Bluetooth	Bluetooth 5.0 for music & calls
Radio Reception	AM/FM (supports DAB USB external, compatible with Eureka-147 European standard)
Power Amplifier Output	4×20W (2×20W optional)
Interfaces	2×USB, 2×CAN

Electrical Parameters

Start-up Time	≤20 seconds
Quick Reverse	≤3 seconds
Operating Voltage	24V, range (18V~32V)
Maximum Operating Current	10A
Quiescent Current	≤5mA
Operating Temperature	-20℃ to +70℃
Storage Temperature	-40℃ to +85℃
Shock Resistance	3G
Reliability	≥10,000 hours
Certifications	EMC, OTS

3.5 10.1-inch Bus Multimedia Entertainment System

Features

- System Features: Ceiling-mounted display + IVI ecosystem (radio, mobile screen mirroring, audio-visual playback, Bluetooth music & calls), microphone (wired & wireless)
- Separate host and display design, 1 host drives dual screens (ceiling display, powers IVI large screen)
- 10.1-inch 1280×720 HD display with high brightness (1000 cd/m²)
- Capacitive touchscreen
- 4-channel AHD 720/1080 input for 4-way application or AVM
- Supports T-BOX and AVM external expansion
- Vehicle body control: AC, windows, lights, locks, BCM, ECU, etc.
- Supports USB and OTA upgrade methods



System Configuration

Product Model	MS-D103QCM
Main Chip & CPU	QCM6125 (11nm), 8-core (4×A73 2.0GHz & 4×A53 1.8GHz)
Operating System	Android 9.0
Memory	4GB RAM
Flash Storage	64GB storage
Display	10.1-inch 1280×720 high-brightness display (1000 cd/m²)
Touchscreen	Capacitive touchscreen
Wi-Fi	2.4G+5G dual-band, Wi-Fi hotspot, wireless phone screen mirroring
Bluetooth	5.0 Music & Phone
Radio Reception	AM/FM (supports DAB USB external, supports European Eureka-147)
Power Amplifier Output	2×25W
Interfaces	2×USB, 2×CAN

Electrical Parameters

Start-up Time	≤20 seconds
Quick Reverse	≤3 seconds
Operating Voltage	24V, range (18V~32V)
Maximum Operating Current	10A
Quiescent Current	≤5mA
Operating Temperature	-20℃ to +70℃
Storage Temperature	-40℃ to +85℃
Shock Resistance	3G
Reliability	≥10,000 hours
Certifications	EMC, OTS

4.1 AI Video Display All-in-One System

Features

- MDVR + 4G Network Connectivity + HD Display All-in-One Unit
- Supports AI algorithms (BSD, DMS, facial recognition) with optional algorithm combinations
- Supports 2TB SSD or 512GB SD card storage
- Supports JT/T 1076&1078, SuBiao, and other cloud platform transmission protocols
- Vehicle information management (e.g., route, driver name, license plate, vehicle ID)
- USB, SD, OTA software upgrades
- Optional interfaces: 4G/Wi-Fi, GPS/Beidou, G-Sensor, CAN, I/O, 232 modules
- Complies with EMC, FCC, CE, E-mark safety standards
- Supports customer secondary development and integration into proprietary apps



Technical Specifications

Product Model	MS-715	MS-796	MS-796AI
Display Size	7-inch	9-inch	9-inch
Display Resolution	1024×600	1280×720	1280×720
Touch Functionality	Not supported	Supports capacitive touchscreen	Supports capacitive touchscreen
Number of Input Videos	AHD 4×720	AHD 6×1080	AHD 6×1080
Display Mode	Single/2/4-channel split display	Single/2/4/6-channel split display	Single/2/4/6-channel split display
AI Algorithm Functionality	Not supported	Not supported	Supports
System	Operating System: Linux		
	Languages: Chinese, English, etc.		
	Video System: PAL/NTSC		
	Video Compression & Standard: H.264/H.265; PAL: 25fps/NTSC: 30fps		
Communications	G-Sensor: Supported, with X/Y/Z sensitivity settings		
	GPS: Built-in GPS & BeiDou, optional		
	4G CAT4: Optional		
	Wi-Fi: 2.4GHz		
Interface	Video Interface: GX12-4 aviation connector		
	SD Card: SD card		
	SSD: Optional, non-removable		
	USB: Supports upgrades, backups, and mouse operation		
	I/O: High-level trigger		
Others	Power Input: 9V to 36V		
	Operating Temperature: -20℃ to +70℃		
	Storage Temperature: -40℃ to +85℃		





4.2 AI Video Recorder

Features

- MDVR with 4G Connectivity
- Supports AI algorithms (BSD, DMS, facial recognition) with optional combinations
- Supports 2TB SSD or 512GB SD card storage
- Supports JT/T 1076&1078, SuBiao, and other cloud platform transmission protocols
- Vehicle information management (e.g., route, driver name, license plate, vehicle ID)
- USB, SD, OTA software upgrades
- Optional interfaces: 4G/Wi-Fi, GPS/BeiDou, G-Sensor, CAN, I/O, RS-232
- Complies with EMC, FCC, CE, E-mark safety standards
- Supports customer secondary development and integration into proprietary apps



Technical Specifications

Product Model	MS-V001RK	MS-V001RK-AI	MS-V016RK
Number of input videos	8-channel AHD (8×720p or 4×1080p + 4×720p)	8-channel AHD (8×720p or 4×1080p + 4×720p)	16-channel (8×AHD + 8×IPC) configurable: 4×1080p + 4×720p + 8×IPC 1080p or 8×720p + 8×IPC 1080p, etc.
Display Mode	Single/2/4/6/8-channel split display	Single/2/4/6/8-channel split display	Single/2/4/6/8/16-channel split display
AI Algorithm Capabilities	Not supported	Support	Not supported
System	Operating System: Linux		
	Languages: Chinese, English, etc.		
	Video System: PAL/NTSC		
	Video Compression & Standard: H.264/H.265; PAL: 25fps/NTSC: 30fps		
Communications	G-Sensor: Supported, with X/Y/Z sensitivity settings		
	GPS: Built-in GPS & BeiDou, optional		
	4G CAT4: Optional		
	Wi-Fi: 2.4GHz		
Interface	Video Interface: GX12-4 aviation connector		
	SD Card: Dual SD card slots (single SD card only when equipped with 4G), SSD: Optional, non-removable		
	2x RS485, 3x RS232, 4x CAN		
	2 alarm outputs (12V or 5V), 4 alarm inputs (low-level alarm at less than 4V, high-level alarm at greater than 4V), 6 I/O high-level triggers		
Others	Power Input: 9V to 36V		
	Operating Temperature: -20℃ to +70℃		
	Storage Temperature: -40℃ to +85℃		

4.3 Vehicle Trip Recorder



Features

- All-in-One Camera with Built-in AI Algorithms
- 4-channel AHD video (1×1080 DMS built-in + 1×720 ADAS external + 2×720 surveillance external) with recording
- Supports DMS, identity recognition, and ADAS algorithms (optional)
- Supports optional 4G, Wi-Fi, and GPS/BD functional modules
- Compatible with Ministry-standard and Suzhou-standard cloud platform protocols
- Mobile app for calibration/monitoring/parameter settings/local playback; platform-based remote parameter configuration and batch deployment
- USB, TF card, and OTA upgrade capabilities

Technical Specifications

Product Model	MS-920				
Built-in camera	DMS1080, Wide Dynamic Range, Infrared Night Vision	**Positioning Module**	GPS+BD Dual-Mode Positioning	**Operating Voltage**	9V~36V
External camera	AHD 1×720 ADAS, 2×720 Surveillance	**Interface Type**	Power, SIM Card, SD Card, Camera Ports ×2	**Operating Temperature**	-20℃~+70℃
Network communication	4G CAT4, 2.4GHz Wi-Fi	**Protection Rating**	IP54	**Storage Temperature**	-40℃~+85℃

4.4 Vehicle Trip Recorder



Features

- Compliant with National Standard GB/T 19056-2021
- 6-channel AHD HD video recorder with optional 1-channel IPC
- Supports 4×720+2×1080 resolution, H.265 compression encoding
- Single-chip integrated ADAS, DSM, (BSD/HOD selectable) intelligent warning system with powerful algorithm processing
- Built-in ADAS advanced driver assistance system (collision, proximity, lane departure)
- Built-in DSM driver status analysis system (fatigue, distraction, smoking, phone use, infrared-blocking sunglasses, driver anomalies, obstruction, driver comparison alerts)
- Built-in BSD blind spot monitoring system (3-level alert classification)
- Built-in HOD system (phone use, hands-off steering wheel, seatbelt detection)
- Built-in Bluetooth, IC card sign-in recognition, integrated 4G CAT4, GPS/BD module
- Integrated supercapacitor prevents data loss and disk damage during abnormal power outages
- Supports USB, hard drive (2TB), SD (512GB) storage; optional disaster recovery enclosure
- Supports intelligent power management recognition, auto shutdown at low battery, low power consumption when engine off
- Supports multiple upgrade methods: USB, SD, OTA

Technical Specifications

Product Model	MS-585				
System	Linux system, Chinese/English support, keypad and mouse operation, 128×64 wide-temperature display, supports 4442 cards and 2402 cards.	**Interface**	Audio/Video Input: M12-4PIN aviation connector Audio/Video Output: 1×VGA, 1×M12-4PIN CVBS	**Others**	Operating Voltage: 8V to 36V
	Video Input: AHD 4×720 + 2×1080 Video Output: VGA + CVBS		Power Interface: Power Supply/Ignition Signal (Based on GB/T 19056-2021 interface definition)		Power Output: 5V @ 500mA
	Video Format: PAL/NTSC		Alarm Input: 7× digital inputs, Alarm Input/Output: 2× configurable input/output mode		Operating temperature: -20℃ to +70℃
	Audio Input: 4+1 × Intercom		2×ADC inputs, 4-pin MIC/SPK TTS interface, One-touch alarm I/O, 1 Ethernet port		Storage temperature: -40℃ to +85℃
	Audio Output: 1× Analog Output + 1× Amplifier Output		3×RS232，1×RS485，2×CAN		

5.1.1 LVDS Digital Camera (External Trigger)



Technical Specifications

Product Model	MS-C3520V				
External Trigger	Support				
Submodel	H29	H90	H116	H160	H200
Perspective	H: 29.3° V: 20°	H: 95° V: 53°	H: 116° V: 72°	H: 160° V: 95°	H: 200° V: 105°
Sensor	OX03C10；CMOS；1920×1280；60fps				
Minimum Illumination	≤1Lux				
Image Signal Processor (ISP)	NVS2675				
Serializer	MAXIM；MAX9295A				
Interface	GMSL2				
Output Pixels	1920×1080；25/30fps				
High Dynamic Range (HDR)	≥120dB				
Output Data	MIPI/YUV；4:2:2_8bit				
Optical Axis Accuracy	≤1°				
Optical center accuracy	±5Pixel				
Multi-camera synchronization	Support				
Others	Power Input: 6V to 16V POC				
	Operating Current: <200mA				
	Protection Rating: IP67				
	Shock Resistance: 5G				
	Operating Temperature: -40℃ to +85℃				
	Storage Temperature: -40℃ to +85℃				

Technical Specifications

Product Model	MS-C3530V				
External Trigger	Support				
Submodel	H29	H90	H116	H160	H200
Perspective	H: 29.3° V: 20°	H: 95° V: 53°	H: 116° V: 72°	H: 160° V: 95°	H: 200° V: 105°
Sensor	OX03C10；CMOS；1920×1280；60fps				
Minimum Illumination					
Image Signal Processor (ISP)	FH8322				
Serializer					
Interface	GMSL2				
Output Pixels					
High Dynamic Range (HDR)	≥120dB				
Output Data					
Optical Axis Accuracy	≤1°				
Optical center accuracy	±5Pixel				
Multi-camera synchronization	Support				
Others	Power Input: 6V to 16V POC				
	Operating Current: <200mA				
	Protection Rating: IP67				
	Shock Resistance: 5G				
	Operating Temperature: -40℃ to +85℃				
	Storage Temperature: -40℃ to +85℃				

5.1.2 LVDS Digital Camera



Technical Specifications

Product Model	MS-S012EV
External Trigger	Not Supported
Field of View	H: 70°; V: 44°
Sensor	OV 1MP OV9284 (Image Size: 1/4 inch CMOS, Pixel Size: 3μm)
ISP	None
Serializer	MAXIM, MAX96705
Interface	GMSL1
Output Pixels	1280 (H)× 800 (V)
Frame Rate	30FPS
HDR	≥68dB
Output Data	RAW
Others	Voltage Range: 6 ~ 16V POC
	Current: < 200mA
	Waterproof Rating: Ip65
	Operating Temperature: -40℃ ~ +85℃

5.1.3 Outdoor IPC Standard Definition Camera





Technical Specifications

Product Model	MS-C750-R	MS-C750-F	MS-C780-L Left-view	MS-C780-L Right view
Perspective	H: 100° V: 75°		H: 77° V: 56°	
Mirror Image	Yes	No	Yes	No
IP Address	192.168.128.10	192.168.128.11	192.168.128.12	192.168.128.13
Sensor	1/3-inch Progressive Scan CMOS			
Minimum Illumination	Color 0.01Lux@F1.2, Black and white 0.001Lux@F1.2 (with IR illumination)			
Image Signal Processor (ISP)	RV1103G			
Output Pixels	1640×480			
High Dynamic Range (HDR)	≥100dB@LFM			
Computing Power	0.5 Tops			
Interface Protocol	ONVIF (supports TCP/IP)			
Communication Interface	Rj45 Ethernet port (10M/100M auto-negotiation)			
Video Adjustment	Adjustable brightness, hue, saturation, and contrast			
Signal-to-Noise Ratio	≥50dB			
Others	Power Input: 9V to 16V			
	Protection Rating: IP68			
	Operating Temperature: -30℃ to +70℃			
	Storage Temperature: -40℃ to +85℃			

5.1.4 In-vehicle High-Definition IPC Camera





Technical Specifications

Product Model	MS-C802IMX
Sensor	1/2-inch Progressive Scan CMOS
Minimum Illumination	Color 0.01Lux@F1.2, Black and white0.001Lux@F1.2 (with IR illumination)
SOC	Rv1106
Output Pixels	1920×1080
HDR	≥100dB@LFM
Interface Protocol	Supports ONVIF, TCP/IP, GB/T28181, and other protocols
Communication Interface	RJ45 Ethernet port (10M/100M auto-negotiation)
Video Adjustment	Adjustable brightness, chroma, saturation, and contrast
Image Status Settings	Supports client-side image configuration (mirroring, flipping, etc.) via network interface
Video Storage Function	TF card storage; supports client-side recording and playback selection via network interface
Motion Detection	Features motion detection and alarm functionality
Username and Password Settings	Supports network client configuration of username and password
Software Upgrade Mode	Web Client & USB 2.0 (TYPE-C)
Firmware Upgrade Mode	Supports firmware upgrades via web client; automatic rollback to previous version upon upgrade failure
Clock Display Function	RTC clock display function
Signal-to-Noise Ratio	≥42dB
Others	Power Input: 9V~32V
	Protection Rating: IP66
	Operating Temperature: -30℃ to +70℃
	Storage temperature: -40℃ to +85℃

5.1.5 In-vehicle Ethernet (T1) Camera

Technical Specifications

Product Model	MS-C346OV
Perspective	H：112°；V：57°
Sensor	OX01D10
Minimum Illumination	Color 0.01Lux@F1.2, Black and white0.001Lux@F1.2 (IR LED on)
MCU	BCM89083
Output Pixels	1920×720; 25/30fps
HDR	≥115dB
Communication Interface	T1 Twisted Pair Cable (10M/100M Auto-Adaptive)
Signal-to-Noise Ratio	≥41dB
Delay	<120mS
Others	Power Input: 7V~24V
	Protection Rating: IP68
	Operating Temperature: -30℃~+70℃
	Storage Temperature: -40℃~+85℃



5.1.6 BSD Camera

Technical Specifications

Product Model	MS-C753AI (Rear View)	MS-C781AI (Side View)
Perspective	H：112°；V：57°	H：75°；V：42°
Sensor	1/3-inch Progressive Scan CMOS	
Minimum Illumination	Color 0.01Lux@F1.2, Black and white 0.001Lux@F1.2 (with IR LED on)	
Output Pixels	1920×1080; 25/30fps	
HDR	≥74dB	
Signal-to-Noise Ratio	≥50dB	
Built-in Algorithm	BSD algorithm (with 0.5 Tops processing power)	
Alarm Output	Supported, can trigger audible/visual alarm	
Audio	Warning audio “beep-beep-beep” with variable tone length based on distance	
Mirror Function	Mirroring	
Reverse Line	Available	
Object Detection	Human/vehicle detection	
APP Calibration	Wi-Fi remote calibration of alarm zones	
Others	Power input: 9V~16V	
	Protection rating: IP67	
	Operating temperature: -20℃ to +70℃	
	Storage temperature: -40℃ to +85℃	



5.1.7 AHD High-Definition Camera



Technical Specifications

Product Model	MS-C750HD (Rear View)	MS-C753HD (Rear View)	MS-C780HD (Rear View)	MS-C311HD (Side View)	MS-C770HD (In-Car)
Perspective	H: 112°; V: 62°		H: 75°; V: 42°	H: 50°; V: 90°	H: 90°; V: 70°
Waterproof	IP67				IP66
Sensor	1/3-inch Progressive Scan CMOS				
Minimum Illumination	Color 0.01Lux@F1.2, Black and white0.001Lux@F1.2 (with IR illumination)				
Output Pixels	1280×720; 25/30fps				
HDR	N/A				
Signal-to-Noise Ratio	≥46dB				
Others	Power Input: 9V~16V				
	Operating Temperature: -20℃~+70℃				
	Storage Temperature: -40℃ to +85℃				

5.1.8 FHD Full HD Camera

Technical Specifications

Product Model	MS-C750FHD (Rear View)	MS-C753FHD (Rear View)	MS-C780FHD (Rear View)	MS-C311FHD (Side View)	MS-C770FHD (In-Car)
Perspective	H: 112°; V: 62°		H: 75°; V: 42°	H: 50°; V: 90°	H: 90°; V: 70°
Waterproof	IP67				IP66
Sensor	1/3-inch Progressive Scan CMOS				
Minimum Illumination	Color 0.01Lux@F1.2, Black and white 0.001Lux@F1.2 (with IR illuminator on)				
Output Pixels	1920×1080; 25/30fps				
HDR	≥100dB				
Signal-to-Noise Ratio	≥42dB				
Others	Power Input: 9V~16V				
	Operating Temperature: -20℃~+70℃				
	Storage Temperature: -40℃ to +85℃				

5.1.9 Automatic flip-up camera

Technical Specifications

Product Model	MS-C789GC
Perspective	H: 105°; V: 60°
Waterproof	IP68
Sensor	1/3-inch Progressive Scan CMOS
Minimum Illumination	Color 0.01Lux@F1.2, Black and white 0.001Lux@F1.2 (with IR illumination)
Output Pixels	1920×1080; 25/30fps
HDR	≥100dB
Signal-to-Noise Ratio	≥42dB
Auto Flip Cover	Flip-up cover upon trigger
Heated Start	≤5℃
Others	Power input: 9V~36V
	Operating Temperature: -30℃ to +70℃
	Storage Temperature: -40℃ to +85℃



5.1.10 Automatically Heated Camera

Technical Specifications

Product Model	MS-C760FHD
Perspective	H: 105°; V: 57°
Waterproof	IP67
Sensor	1/3-inch Progressive Scan CMOS
Minimum Illumination	Color 0.01Lux@F1.2, Black and white 0.001Lux@F1.2 (with IR illuminator on)
Output Pixels	1280×720; 25/30fps
HDR	≥100dB
Signal-to-Noise Ratio	≥42dB
Heated Start	≤5℃
Others	Power Input: 9V~16V
	Operating Temperature: -20℃~+70℃
	Storage Temperature: -40℃ to +85℃



5.2.1 7-inch 3-segment high-definition display

Technical Specifications

Product Model	MS-705KY	MS-708KY	MS-716KY
Waterproof	Not supported	Not supported	IP67 (Waterproof Display)
Display	Size: 7 inches		
	Resolution: 1024×600		
	Brightness: 400 cd/m²		
Video Input	3-channel (AHD 1080/720, CVBS; supports mixed video signals)		
Display Mode	Single/dual/triple split-screen display		
Video System	PAL/NTSC; PAL: 25 fps / NTSC: 30 fps		
Image Settings	Supports adjustable rotation and mirroring		
Trigger Method	3-channel hard-wire trigger		
Others	Power input: 11V~32V		
	Operating temperature: -30℃ to +70℃		
	Storage temperature: -40℃ to +85℃		





5.2.2 7-inch Quad-Split HD Monitor

Technical Specifications

Product Model	MS-705QKY	MS-708QKY	MS-716QKY
Waterproof	Not supported	Not supported	IP67 (Waterproof Display)
Display	Size: 7 inches		
	Resolution: 1024×600		
	Brightness: 400 cd/m²		
Video Input	4 channels (AHD 1080/720, CVBS; supports mixed video signals)		
Display Mode	Single/dual/triple/quad screen display		
Video System	PAL/NTSC; PAL: 25fps / NTSC: 30fps		
Image Settings	Supports adjustable rotation and mirroring		
Trigger Method	4-channel hard-wire trigger		
Others	Power input: 9V~32V		
	Operating temperature: -30℃ to +70℃		
	Storage temperature: -40℃ to +85℃		



5.2.3 10.1-inch Single-Channel HD Monitor

Technical Specifications

Product Model	MS-M101KY-A	MS-M101KY-B
UART_TX Output	Support	Not supported
Display	Size: 10.1 inches	
	Resolution: 1024×600	
	Brightness: 550 cd/m²	
Control	Capacitive touchscreen, single button	
Video Input	1 channel (compatible with AHD 1080/720P, CVBS)	
Display Mode	Single-screen full-screen display	
Video System	PAL/NTSC, PAL: 25fps / NTSC: 30fps	
Image Settings	Supports rotation and mirror adjustment	
Trigger Method	1 channel hard-wire trigger	
Others	Power input: 9V~32V	
	Operating temperature: -20℃ to +70℃	
	Storage temperature: -30℃ to +85℃	
	Shock resistance: 3G	
	Certifications: EMC, CE, E-Mark, FCC	



5.2.4 10.1-inch Quad-Split HD Monitor

Technical Specifications

Product Model	MS-M108KY-N4	MS-M108KY-T4
Control Method / Operation	Button-operated (non-touch)	Single-button with full touchscreen control
Display	Size: 10.1 inches	
	Resolution: 1024×600	
	Brightness: 550 cd/m²	
Video Input	4-channel (compatible with AHD 1080/720, CVBS; supports mixed video signal connections)	
Display Mode	Single/dual/triple/quad screen display	
Video System	PAL/NTSC, PAL: 25fps / NTSC: 30fps	
Image Settings	Supports adjustable rotation and mirroring	
Trigger Method	4-channel hard-wire trigger	
Others	Power input: 9V~32V	
	Operating temperature: -20℃ to +70℃	
	Storage temperature: -30℃ to +85℃	
	Vibration resistance: 3G	
	Certifications: EMC, CE, E-Mark, FCC	





5.2.5 10.1-inch 4&6-Channel HD Recording and Display All-in-One System (Low-Cost Solution)





Technical Specifications

Product Model	MS-V108KY-N4	MS-V108KY-N6	MS-V108KY-T4	MS-V108KY-T6
Control Method / Operation	Button-operated (non-touch)		Single-button with full touchscreen control	
Number of video inputs	4-channel	6-channel	4-channel	6-channel
Display Mode	Single, dual, triple, quadruple screens	Single, dual, quad, and six-screen displays	Single, dual, quad, and six-screen displays	Single, dual, quad, and six-screen displays
Triggering Method	4-channel hard-wired trigger	6-channel hard-wired trigger	4-channel hard-wired trigger	6-channel hard-wired trigger
Video Recording Function	Support			
Display	Size: 10.1 inches			
	Resolution: 1024×600			
	Brightness: 550 cd/m²			
Video Input	Compatible with AHD 1080/720, CVBS; supports mixed video signal connections			
Display Mode	PAL/NTSC: PAL: 25fps / NTSC: 30fps			
Video System	Supports adjustable rotation and mirroring			
Image Settings	Power Input: 9V~32V			
Trigger Method	Operating Temperature: -20°C to +70°C			
Others	Storage Temperature: -30°C to +85°C			
	Shock Resistance: 3G			
	Compliance Standards: EMC, CE, E-Mark, FCC			

Company Introduction









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