



MINGSHANG



IATF 16949:2016

MINGSHANG TECHNOLOGY CO., LTD

Factory Add.: Mingshang Industrial Area, Yeting Road, Huiyang District, Huizhou, China

9 R&D Locations

Huizhou (China) (Headquarters)

Belarus office: Smolevichi District, Minsk Region, Belarus

Singapore office: 150 Beach Road, #28-05/06 Gateway West, Singapore

Hong Kong office: Rm 605.6/F, Fa Yuen Commercial Building, 75-77 Fa Yuen St,

Mongkok, Kln, Hong Kong

Changsha (China)

Nanning (China)

Shenzhen (Pingshan District, Shenzhen, China)

Shenzhen (Nanshan District, Shenzhen, China)

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www.mingshang.com

VEHICLES VISUAL SAFETY SOLUTIONS

To be the World's No.1 Vehicle Vision Manufacturer



MINGSHANG TECHNOLOGY CO., LTD

INTRODUCTION

Mingshang was established in 2003 in Shenzhen, moved to Huizhou in 2017, and in the same year, Mingshang Research Institute and High-Tech Commercial Vehicle Incubation Base were set up. The company has established national laboratories and built an up-down stream automotive electronics incubation base to provide standard solutions for digitalization, intelligence and informationization of global commercial vehicles.

SERVICE

Focusing on the commercial vehicle industry, with smart cabin as the core, the company is an integrator of hardware and software system including driving safety, vehicle management, intelligent driving, and intelligent network. Our products are based on video security collection, storage, monitoring, connecting cloud and data computing products, commercial vehicles with special thermal imaging dual light fusion night vision system, intelligent cockpit display, multi-way 360 panoramic system for blind zone, etc. Based on the combination of hardware product sets, we provide personalized technical bases for commercial vehicle intelligence, informationization, digitalization and networking, and to build a commercial vehicle networking operation service platform integrated with high-quality software and hardware system.

CORE TECHNOLOGY

The company focuses on the core technology of intelligent driving software and hardware platform of commercial vehicle, integrates the advantageous products of the world's cutting-edge partners, with varieties and small-volume output and the company has potentially become leader in the whole market segment. MINGSHANG shareholders: ArcSoft, Horizon Robotics, PATEO, ZIJIN MINING, Shenzhen Smart City, etc.

HONORS & AWARDS OR ACHIEVEMENTS

- National High-tech Enterprise Certificate
- National High-tech Product Certificate
- National Safety Technology Center CCC Product Certificate
- Certificate of ISO9001/IATF16949 Quality Management System
- Passed ISO14001:2015 Environmental Management System Certificate
- Passed ISO45001:2018 Profession Health and Safety Management System Certificate
- Passed CMMI Level 3 Software Capability Maturity Integration Model Certificate



R&D Achievements

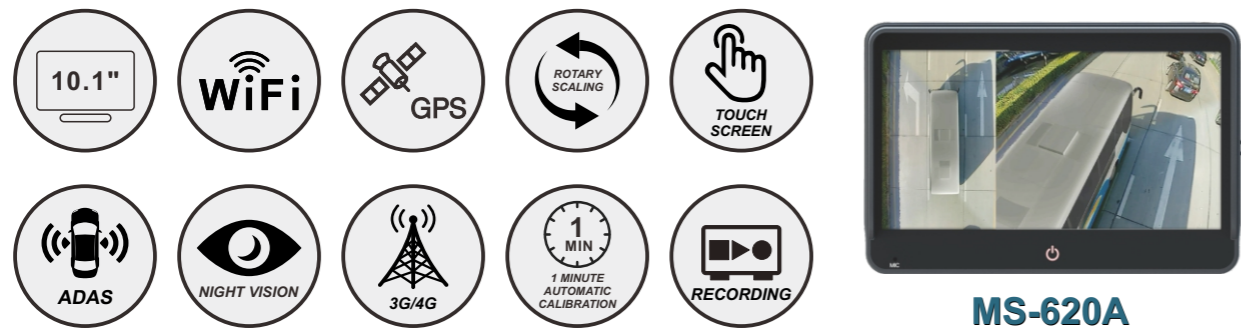
- IN 2023, Remote driving intelligent control system, Fully integrated intelligent cockpit, AVM all-in-one system+6-channel video intelligent ministry standard integrated machine.
- IN 2022, Thermal Image Camera, Auto Shutter camera, Forklift Camera, NVR.
- IN 2021, Developed AI Multimedia, Driver State Monitor, Active Safety Video Terminal, 360 Degree Panoramic System, High Limit Detection & Warning System.
- IN 2020, Developed 12.1" Android Auto Apple CarPlay Built-in Bluetooth, Digital Media Receiver / Multimedia Receiver.
- IN 2019, Developed HD 4 CH 5", 7", 9" Digital Wireless Rear View System.
- IN 2018, Developed DSM and Streaming Rearview Mirror DVR.
- IN 2017, Developed 4CH quad 7" HD camera system with DVR function.
- IN 2016, Developed 10.1" quad AHD rear view system & 4CH AHD SD card DVR.
- IN 2015, Developed 8CH HDD DVR, camera cleaning system & 7" quad 1080P rear view system.
- IN 2014, Developed 4CH HDD DVR, GPS tracker and WIFI wireless rear view system.
- IN 2013, Developed 360° bird view system & a series of digital wireless system.
- IN 2012, Developed the first 7" quad touch screen rear view system.
- IN 2011, Passed TS16949:2009 & ISO9001:2008.
- IN 2010, Developed 7" & 9" rear view system and passed CE & FCC.
- IN 2009, Developed the first 7" analog wireless rear view system.
- IN 2008, Developed the first 5.6" and 7" digital rear view system.
- IN 2007, Developed a series of car license plate cameras and passed CE.
- IN 2006, Developed the first 3.5" and 4.3" rear view system.
- IN 2005, Developed the first 7" GPS rear view system.
- IN 2004, Developed the first 7" rear view system MS-702RSC.
- IN 2003, Specialized in car rear view system.

3D 360° Around View Driving Assistance System + 2BSD(OPTIONAL)



MS-620

360° Surround View Safe Driving Assistance Monitor All-in-one System



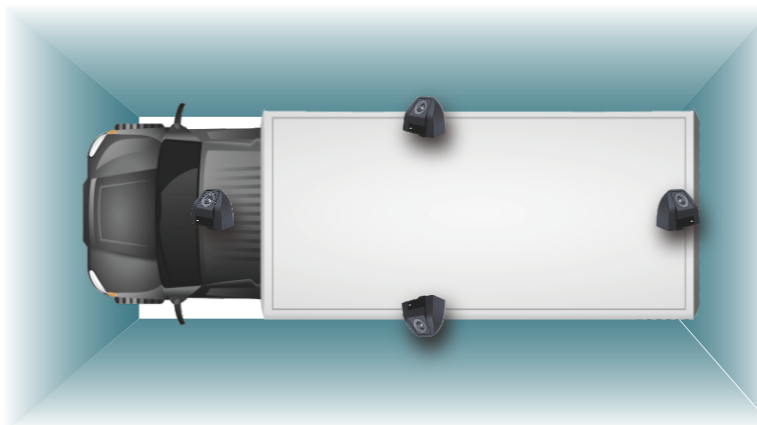
MS-620A



360° Surround View Safe Driving Assistance Monitor All-in-one System

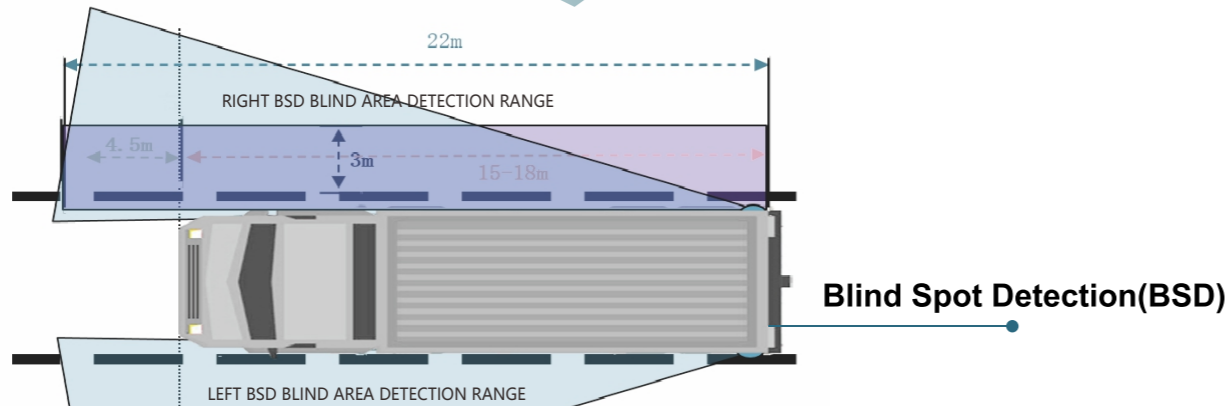
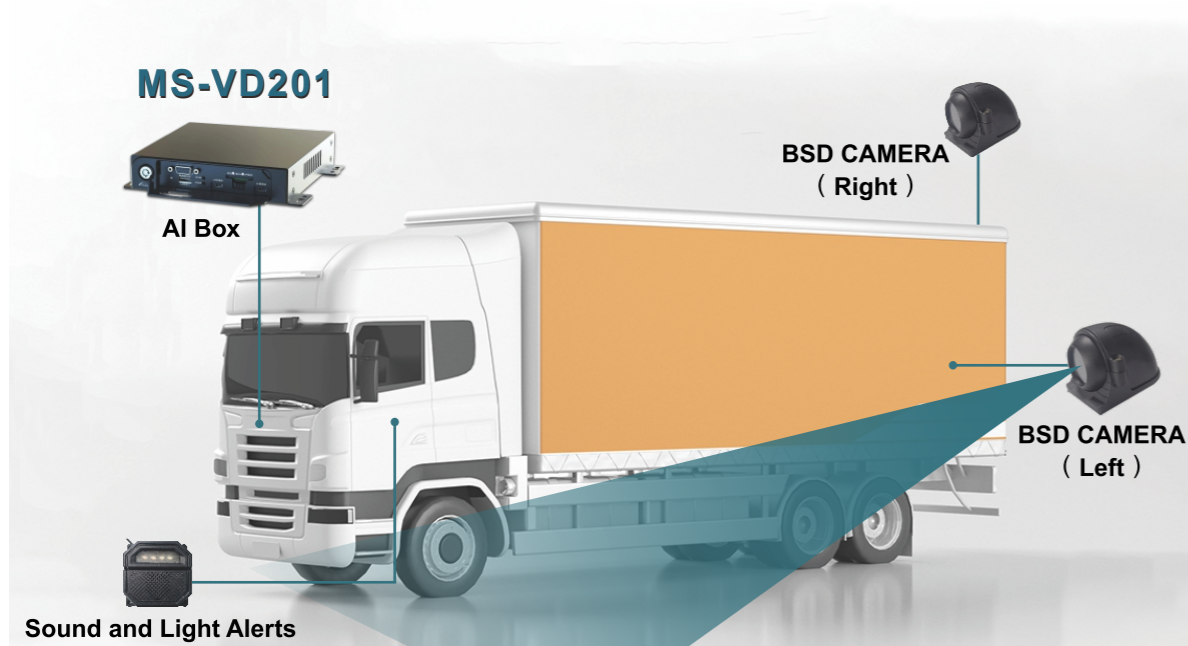


MS-620B

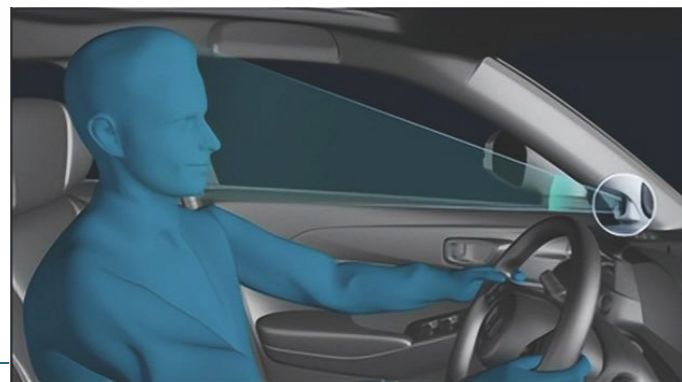


Aerial view and left view Aerial view and right view Aerial view and rear view Aerial view and front view

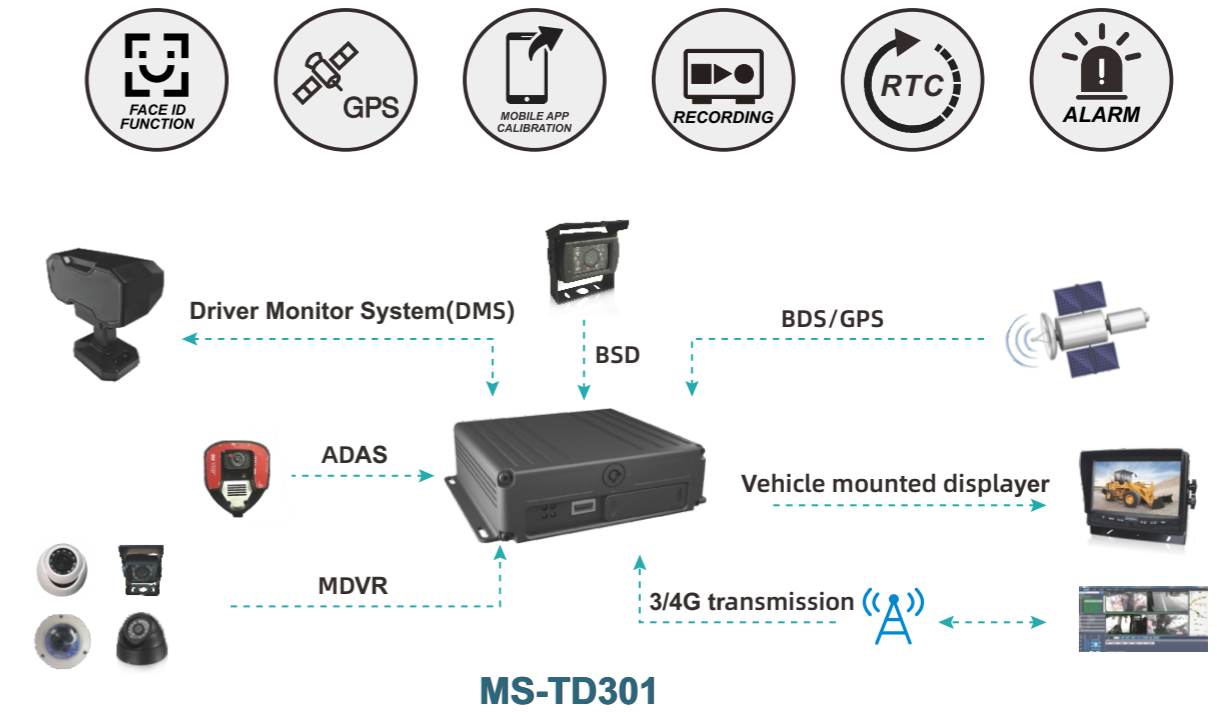
Active Safety Video Terminal



Driver Monitor System(DMS)



Active Safety Video Terminal



Basic functions



FCW+LDW-ADAS



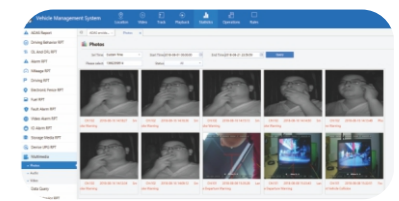
BSD



Real-time audio&video monitor

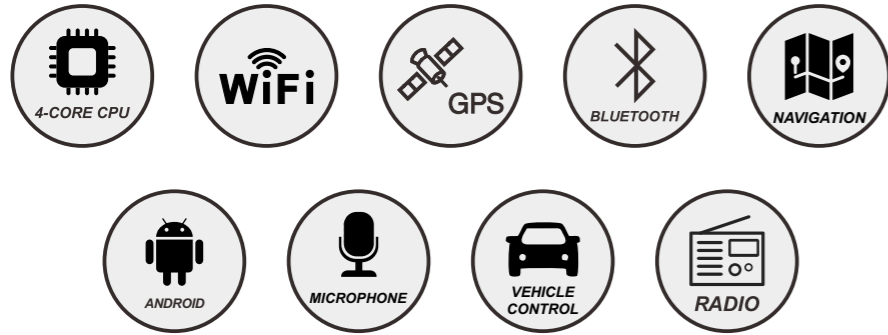


Real-time positioning monitor



Data report

12.1" ANDROID AUTO/APPLE CARPLAY



MS-D009

10.1" ANDROID AUTO/APPLE CARPLAY



MS-D101 AC

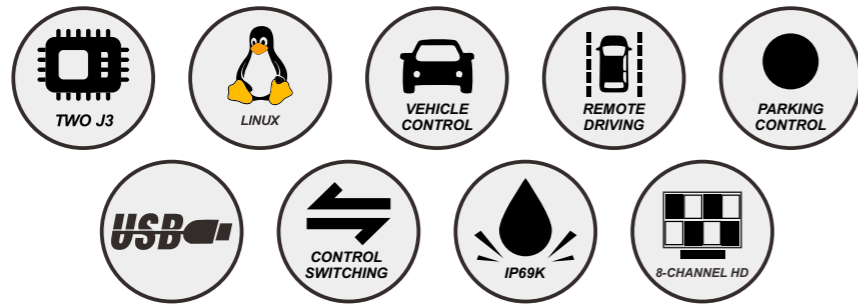
7" HD Touchscreen Car DVD Player MS-808L



Remote Driving Intelligent Control System



MS-H607HR



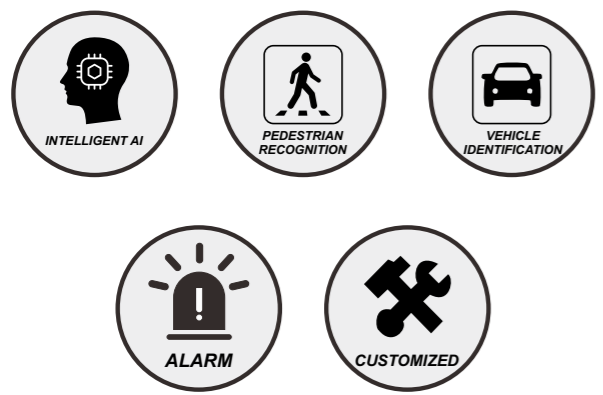
Fully Integrated Intelligent Cockpit



MS-Y906RK



AI Camera System



MS-708BSD3

Monitor	MS-708HD
Pixel	1024(H)*3(RGB)*600(V)
Contrast	450:1
Power Input	DC10V-36V
Video Input	4CH
Audio Output	1CH

Camera MS-750HD	
Pixel	1280 * 720 P
Waterproof	IP69K
Resolution	7 2 0 P
Viewing Angle	120 Degree
IR LED	18 pcs

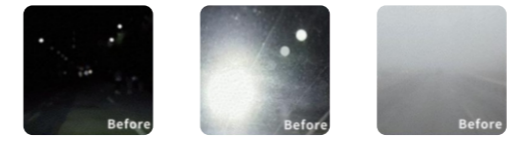
ACTIVE SAFETY VIDEO TERMINAL



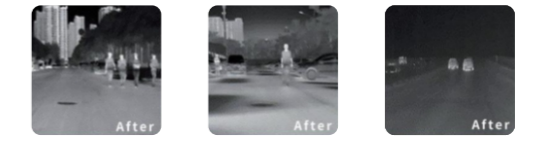
MS-256 Intelligent Vehicle Mounted Thermal Imaging Night Vision System



Normal vision range



Thermal imaging view range

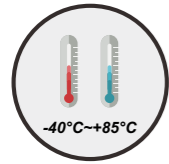


APPLIACTION

Passenger Vehicles, Commercial vehicles, Special vehicles, Assistance for High Speed Railand other Railway vehicles, Solution for Automatic Drive.



DRIVER DROWSINESS AND ATTENTION WARNING (DDAW) SYSTEMS



Basic functions



Fatigue warning



Yawn warning



Smoking warning



Calling warning



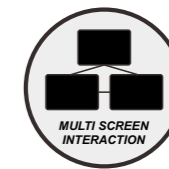
Distraction warning



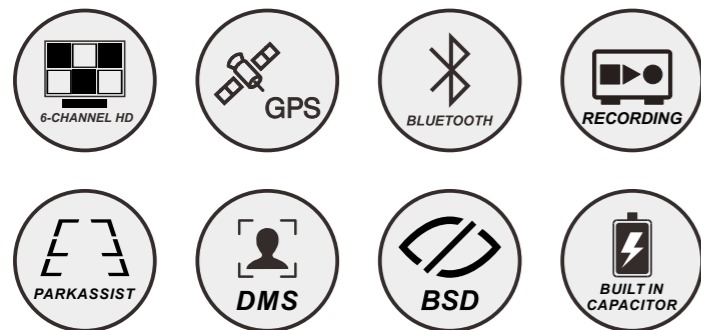
Abnormal warning



HD Video: Recorder with BSD, DSM and ADAS



- ▶ GB/T 19056-2021 standard
- ▶ 6-channel HD video department, standard all-in-one machine, optional 1-channel IPC
- ▶ Supports four channels of 720P and two channels of 1080P, H.265 compression encoding
- ▶ Integrated ADAS, DMS, (BSD/HOD) intelligent warning system



MS-585

8-channel HD NVR +XVR video recorder



MS-V001RK

16-channel HD NVR +XVR video recorder



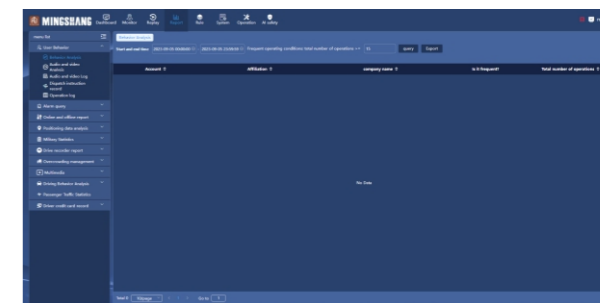
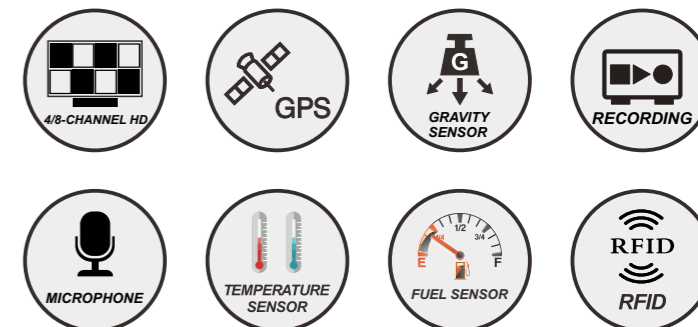
MS-V016 RK

- Support 8-channel 1080P IPC
- Support 8-channel AHD

4/8 CH AHD HDD DVR With BSD, DSM And ADAS



MS-586DVR



Support Customized Platform(Linux & Windows)

OTHER DVR SYSTEM



MS-581DVR

2CH AHD SD MOBILE DVR



MS-5011DVR

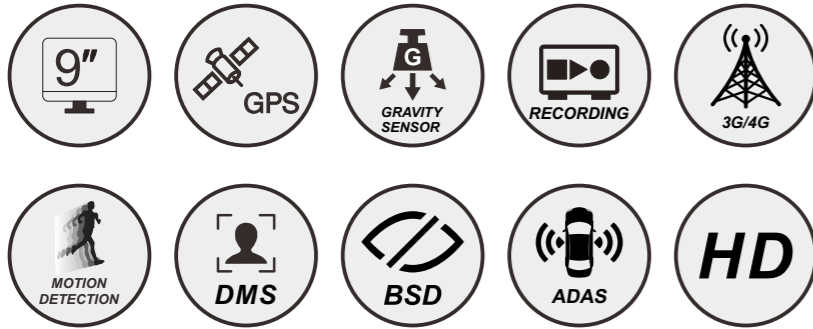
SD Card Mobile DVR (4CH/GPS+4G)



MS-583DVR

4/8 CH HDD Mobile DVR

9" 6CH HD DVR Monitor



MS-796DVR

7" 4CH 1080P Video Recording System



MS-715DVR

- ▶ 4/6CH 1080P DVR with HD monitor, touch screen
- ▶ GPS function, G-sensor, support
- ▶ SD card SSD optional
- ▶ Linux operating system
- ▶ External USB2.0 interface, software upgrade and file downloading capable
- ▶ Support 4 video mode: manual, alarm, timing, trigger



AHD 2.4GHZ Digital Wireless Forklift Camera



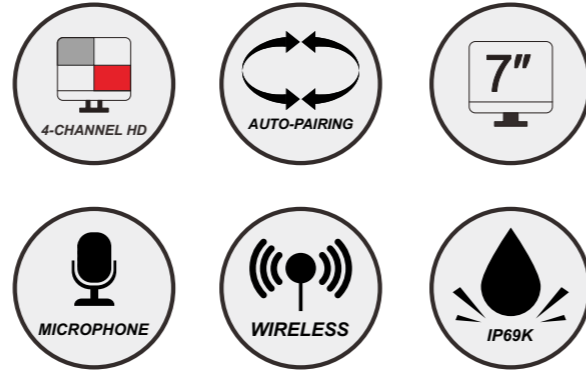
MS-706W

MS-C787SN



- ▶ Magnetic wireless forklift safety camera, easy to install
- ▶ IP69K Waterproof with metal shell, durable and fit for forklift to work outside
- ▶ Can be conveniently powered by internal battery and magnet

7" 4CH HD WIRELESS SYSTEM WITH RECORDING



MS-715HDRSM



Digital HD Wireless System

- 1 Auto Scanning
- 2 Auto Pairing
 - Auto Pairing starts when camera is powered

3 Quad View

- 7" HD digital wireless monitor
- 4x 720p HD camera input

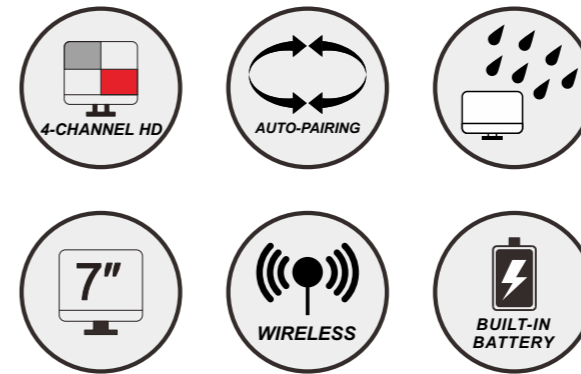
4 2.4GHz

- Frequency range 2400-2483.5 MHZ
- Distance: 150m(barrier-free)
- Reception capability: -89dBm

5 Recording Monitor

- Built-in recorder (128GB Micro SD card)
- Real time recording, video playback
- TGV video quality, MPEG4 format

7" 4CH HD WIRELESS SYSTEM WITH RECORDING



1080P FHD Wireless camera system



MS-708HDRSWA

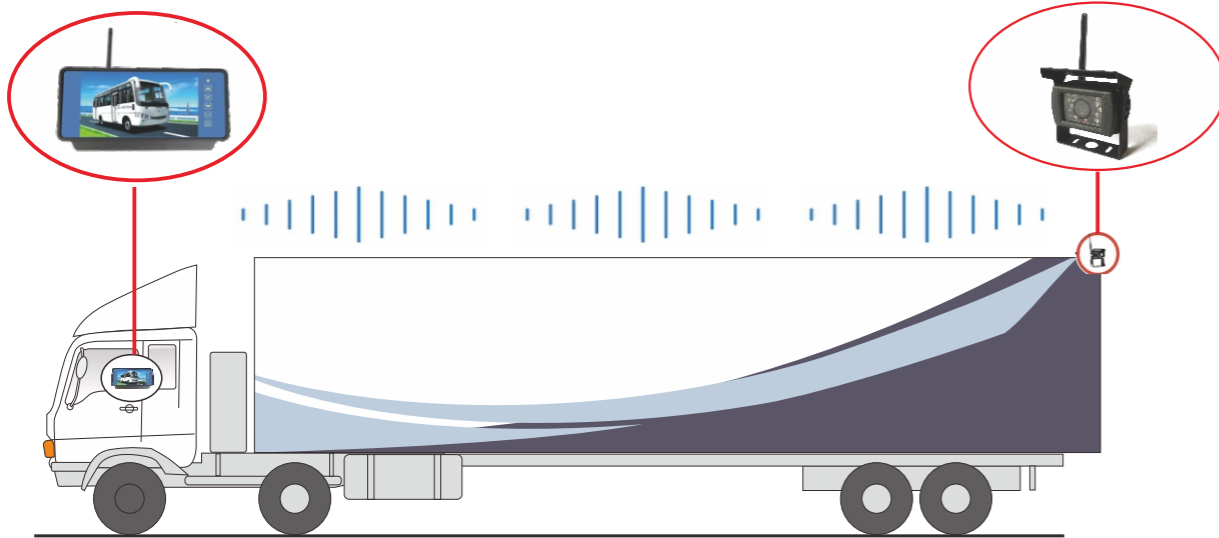
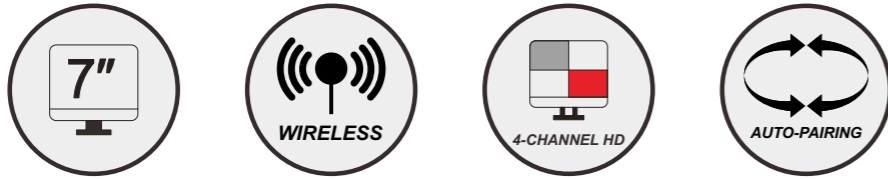
- ▶ Full HD No interference digital signal
- ▶ High-Res: 1,024X3 (RGB) x 600 pixel
- ▶ Monitor built-in rechargeable battery
- ▶ Frequency: 2400MHZ~2483.5MHZ
- ▶ Auto scanning ,auto pairing
- ▶ Wireless Distance: 200M in open area
- ▶ 4CH video, quad screen/dual-screen/full screen optional
- ▶ Real time recording ,support 32GB CLASS10 TF
- ▶ 4 wireless cameras TX 1080p 30HZ single antenna transmission
- ▶ Wireless HD display RX 1080p 30HZ dual antenna reception.
- ▶ Completely waterproof IP69K rating
- ▶ Auto-Brightness
- ▶ With a four-port power harness, the system can connect 4 cameras at most

7" 4CH HD Digital Wireless Rear View System

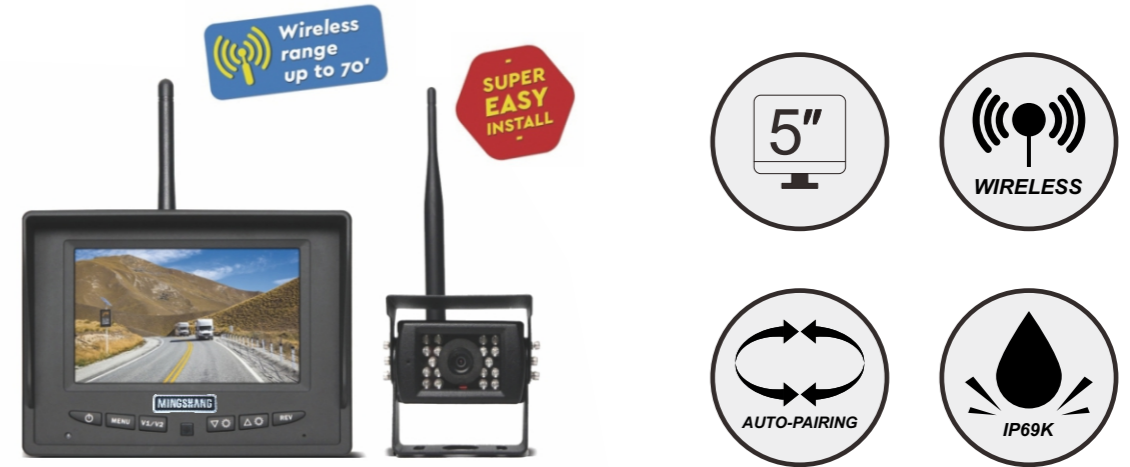


MS-708HDRSM

MS-758HDRSM



5" Digital Wireless Camera System



MS-508RSW

4.3" Digital Wireless Camera System



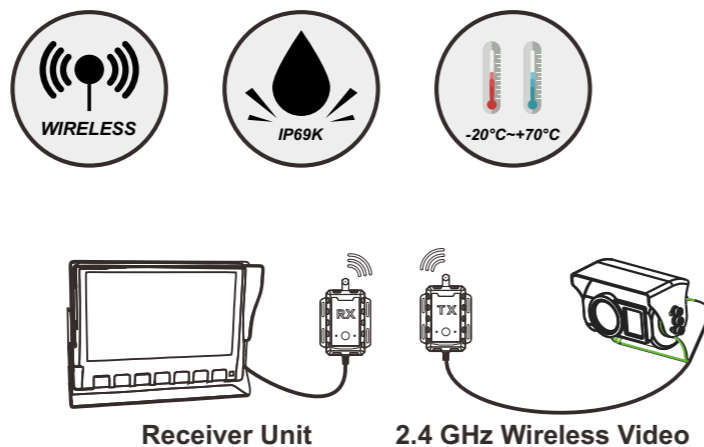
MS-348RSW



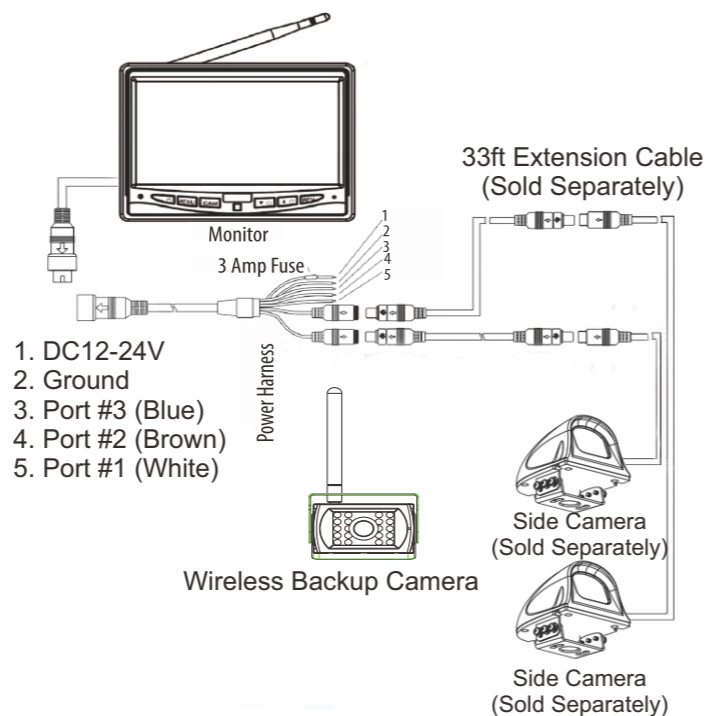
AHD Transmitter & Receiver



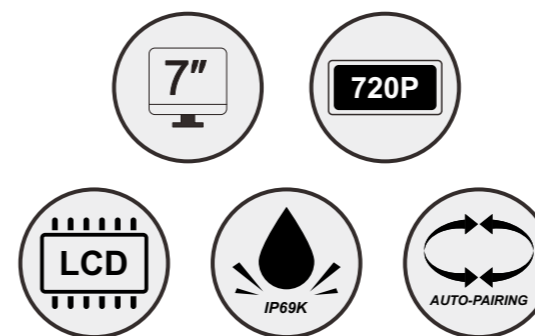
2.4GHz Wireless Video Transceiver



7" Wireless Camera System with Wired Side Camera Inputs

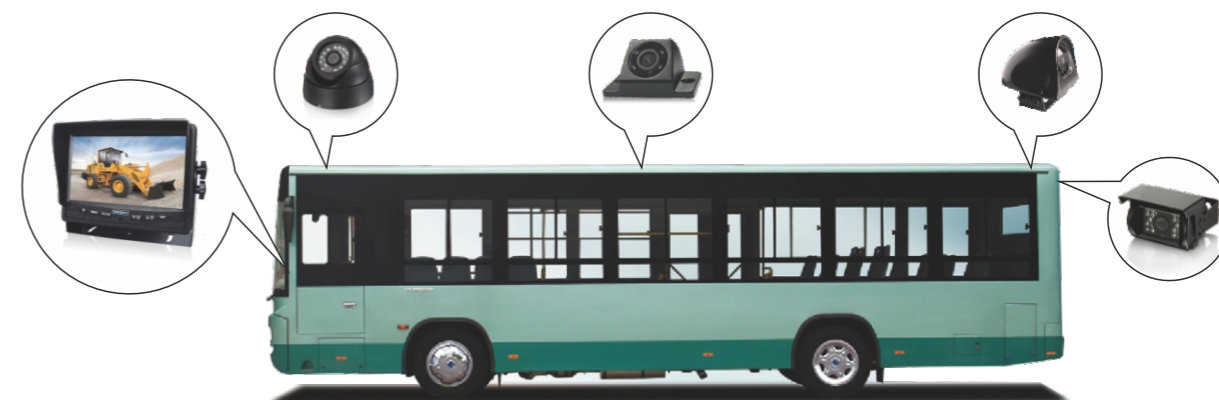


7" HD Rear View System

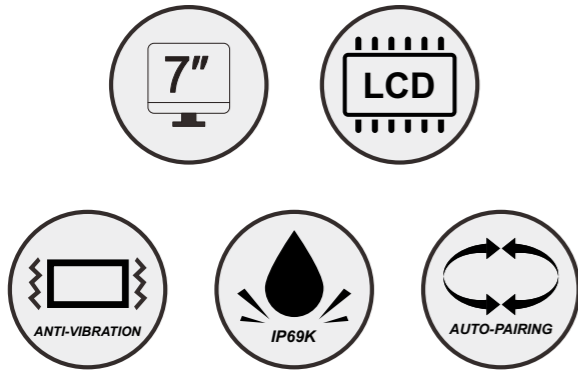


Monitor	MS-708HD
Pixel	1024(H)*3(RGB)*600(V)
Contrast	450:1
Power Input	DC10V-36V
Video Input	4CH
Audio Output	1CH

Camera	MS-750HD
Pixel	1288(H)*3(RGB)*728(V)
Waterproof	IP69K
Resolution	1080P
Viewing Angle	120 Degree
IR LED	18 pcs



7" Waterproof Rear View System



MS-716RSC

Camera



Provide a clear view of your vehicle blind spot.



To protect vehicles, cyclists and other vulnerable road users when manoeuvring or changing lanes.

MS-719 12.3 INCH HD REARVIEW ELECTRONIC MIRROR SYSTEM



HD WIFI BACKUP CAMERA SYSTEM



MS-305HDWF



Operations for Android&IOS system client
 APP name: 'MS cam'
 APP download
 Android: Download the APP 'MS cam' on Google Play Store
 IOS: Download the APP 'MS cam' on Apple Store



MS-337WF

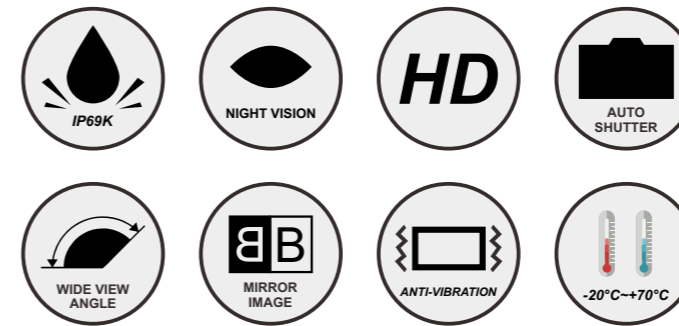


This system compatible for Cars/Pickups /RVs/ Trailers /Motorhome/5th wheels/Campers/Vans



MS-C789GC

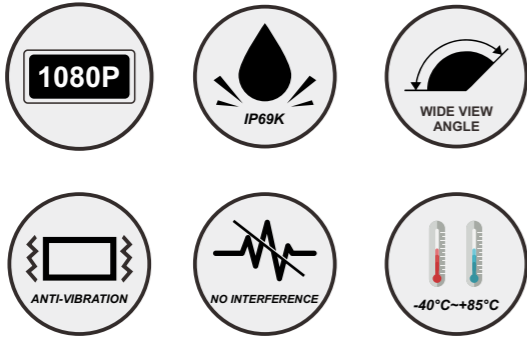
Auto Shutter camera



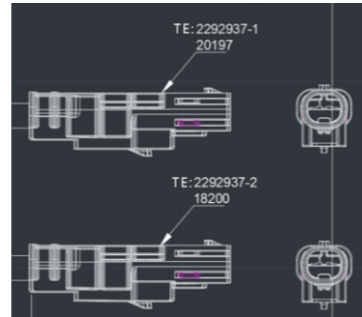
- ▶ HD definition
- ▶ IP69K waterproof
- ▶ With auto shutter for improved protection of lens, suitable for harsh environment such as sandy or heavy snow with wide view angle
- ▶ Night vision distance: 8m ~ 10m (26.25ft~32.81ft)

LVDS Camera

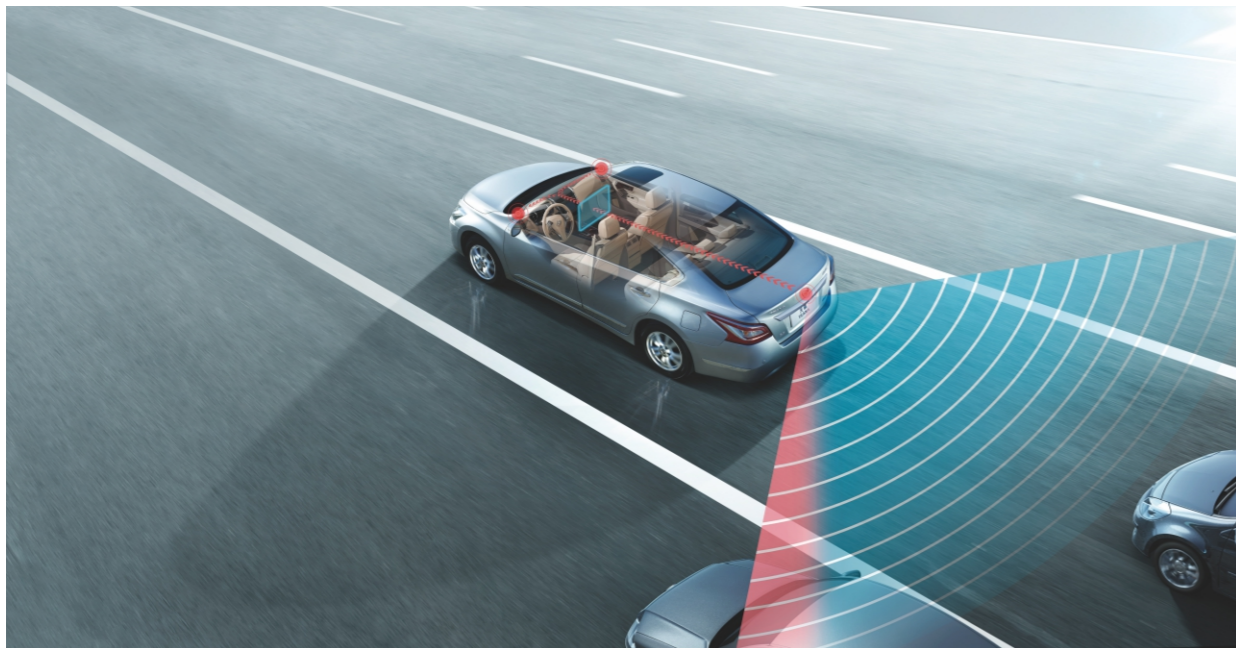
Serializer: Max9295 ,MAX 96705 and Ti953



ETH camera



Mingshang Ethernet camera is an ultra-robust, automotive-grade camera, delivering high-quality images in all environmental conditions, and providing sharp images across the whole range. Working Temperature: -40~+85°C.



OEM Camera



» MS-323
(General Flat)



» MS-324
(Chevy- Savvanah 2003-2013)



» MS-327
(Ford Transit 2015-2016)

HD Camera

MS-S006



MS-311HD



MS-779HD



MS-775HD



AI Camera

TD105



ADAS



360 Fisheye(BSD)



DMS



Car Camera

MS-337



MS-773



MS-338



MS-309C



Camera	AHD(720P)	AHD(1080P)	CCD	CMOS
Number of effective pixels	1288(H)X728(V)	1920(H) x 1080(V)	768(H) x 494(V)	976(H) x 496(V)
Video Signal System	TVI ,AHD optional	TVI ,AHD optional	CCD	CMOS
S/N Ratio	41dB or more	41dB or more	41dB or more	41dB or more
Minimum Illumination	0.01Lux (With IR)	0.01Lux (With IR)	0.01Lux (With IR)	0.01Lux (With IR)
IR Switch Control	Mechanical Day & Night (IR filter changeable)	Mechanical Day & Night (IR filter changeable)	Mechanical Day & Night (IR filter changeable)	Mechanical Day & Night (IR filter changeable)
Power Input range	9V-18V	9V-18V	DC 12V	DC 12V
Electronic Iris	AUTO/ 1/50 (1/60) -1/50,000sec	AUTO/ 1/50 (1/60) -1/50,000sec	AUTO/ 1/50 (1/60) -1/50,000sec	AUTO/ 1/50 (1/60) -1/50,000sec
Waterproof	IP69K	IP69K	IP68/69K	IP68/69K
Temperature Operation	-30°C ~ 70°C	-30°C ~ 70°C	-30°C ~ 70°C	-30°C ~ 70°C
Ambience Humidity	RH 85% max	RH 85% max	RH 85% max	RH 85% max