

**veise**<sup>®</sup>



Official website

Email: [admin@veise.com](mailto:admin@veise.com)

URL: [www.veise.com](http://www.veise.com)

Address: No. 20, Nanhe 2nd Street, Shiling Town, Huadu District, Guangzhou City, Guangdong Province, China

CE FC    E-MARK TELEC IP69K

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VEISE (GUANGZHOU) ELECTRONICS CO., LTD.

**VISION SAFETY  
SOLUTIONS FOR  
MACHINERY AND  
EQUIPMENT VEHICLES**

2024  
FOCUS ON ACHIEVING PROFESSIONALISM  
AND QUALITY CREATE BRAND





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**VEISE (GUANGZHOU) ELECTRONICS CO., LTD.**

Veise (Guangzhou) Electronics Co., Ltd. was established in 2003 (founded in 1997). It is a national high-tech enterprise that integrates R&D, production, and sales. It is also a little giant in Guangdong Province and a key enterprise of the local government.

The company has been focused on vehicle safety for more than 20 years, with nearly 100 independent intellectual property patents. It has passed the IATF16949 international quality management system certification of the International Automotive Task Force. Its products have obtained multiple certificates such as CE, FCC, RoHS, E-mark, and ECER65/R10.

What's more, Veise has built good cooperative bridges with many well-known vehicle manufacturers and accessory distributors at home and abroad, becoming a global leading visual solution provider.



# MILESTONES



20 years  
Vehicle monitoring  
industry experience



500m<sup>2</sup>  
Professional laboratory



12000m<sup>2</sup>  
Independent factory



150+  
Exporting countries  
and regions

2003

Independently established Veise (Guangzhou) Electronics Co., Ltd., focusing on vehicle monitoring, and dedicated to providing high-quality, intelligent vehicle electronic products and solutions.

The "Veise" brand was officially landed, laying a solid foundation for it to enter the global market.

2005

Successfully obtained international certificates such as CE, FCC, RoHS, and ISO9001:2001 quality management system certificate, standardizing the enterprise operation process to ensure product quality and management efficiency.

Adopted the ERP system to achieve integrated management of core processes such as research and development, production, procurement, sales, warehouse, and finance, ensuring the collaborative operation of the entire supply chain and the accuracy of data.

Successfully applied for the license for foreign trade business, having the legal qualification to engage in international trade, and meeting the diverse needs of customers at home and abroad professionally and efficiently.

2006-2010

1. In 2006: Developed and pioneered the on-board display OSD menu, and won the national utility model design patent, setting a new benchmark for the industry.

2. In 2007: Developed the on-board wireless rear-view system, and obtained the national utility model design patent, leading the forefront of the industry.

3. In 2008: Developed the touch screen on-board display and obtained the national utility model design patent, demonstrating innovative strength.

4. In 2009: Developed the multi-picture on-board display, and obtained the national utility model design patent, consolidating the leading position in the industry.

5. In 2010: Developed the IP68 waterproof on-board display, and obtained the national utility model design patent, marking a breakthrough in the technical field.

2011-2014

1. In 2011: Successfully developed the onboard dust-proof flip-top camera and won the national utility model design patent. The waterproof grade is IP69K, integrating automatic heating, defogging, and defrosting functions, effectively withstanding harsh environments.

2. In 2012: Passed the TS16949:2016 international quality management system, achieving the goal of "preventing defects, continuous improvement, reducing variations and waste throughout the entire supply chain", reaching high-quality and high-efficiency production, and enhancing the competitiveness and market position of the enterprise.

3. In 2013: Successfully developed the DVR on-board display and obtained the national utility model design patent, becoming the industry leader.

4. In 2014: Developed the IP69K waterproof and anti-fog detector, which monitors the sealing pressure value in real-time online, and ensures the waterproof performance of the

## 2016-2019

1. In 2016: Successfully launched the on-board warning light that complies with the ECE R65 standard and its testing equipment, with a waterproof rating reaching IP69K, which has improved the standard system of the warning light industry and set a new benchmark for the industry. Veise Electronics insists on standing at the cutting edge of the times and interprets the true meaning of "leader" with excellent technology and quality.
2. In 2017: Won the title of "High-tech Enterprise" of the country and moved into a 12,000-square-meter single-building factory. In the research and development fields of onboard displays, cameras, and warning lights, Veise Electronics continuously explores and innovates, transforming technological achievements into the core competitiveness of the enterprise. Based on independent intellectual property rights, it is committed to providing customers with excellent products and services.
3. In 2018: Passed the IATF 16949:2016 international quality management system certificate again, marking that Veise Electronics complies with the new quality standards of the international automotive parts industry. Through continuous technological innovation and market expansion, the "Veise" brand will continue to maintain its leading position in the field of in-vehicle monitoring and become a well-known brand trusted by domestic and foreign users.
4. In 2019: Successfully developed the AHD high-definition on-board display and obtained the national utility model design patent.

## 2020-2023

1. In 2020: Successfully developed the AI intelligent monitoring system, which effectively enhances the safety of vehicle operation. This system monitors in real-time the pedestrians, vehicles, and other obstacles around the body, prevents potential risks, and reduces the accident rate through early warning and alarm.
2. In 2021: Successfully developed the 360° panoramic image system. By installing ultra-wide-angle cameras around the vehicle, it collects real-time high-definition pictures around the vehicle and forms a panoramic view around the vehicle through AI visual stitching technology, helping the driver to fully observe the surrounding environment. It can effectively reduce the blind spots in the field of view during vehicle operations and improve the safety of the operations.
3. In 2023: Invested in the construction of an efficient, accurate, and reliable production environment - the hundred-level dust-free workshop, to meet various high-standard manufacturing needs, and improved product quality and stability, ensuring an efficient production process.  
The hundred-level dust-free workshop is a milestone in the development of Veise Electronics and a commitment of Veise Electronics to provide quality services to customers. We will take this as an opportunity to continuously pursue excellence and create greater value for customers.

# CERTIFICATE



Donation Honour

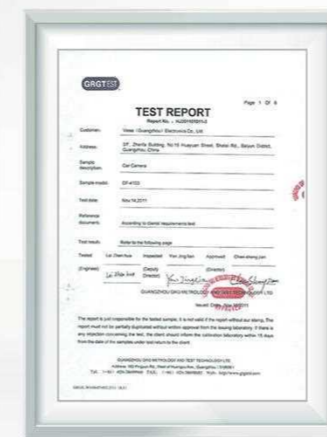


IATF 16949



ISO9001-2015

## Certification ▼



IP69K



E-mark



CE



FCC

## Patent Certificate ▼



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## CHAPTER 1

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# VEHICLE MONITORING SOLUTIONS

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Vehicle-mounted monitoring solutions can improve the operating efficiency and safety of construction machinery, optimize traffic management, and protect data security, thereby improving the operating efficiency and safety of construction machinery.



## CHAPTER ONE

## Earthmoving machinery—ADAS+DMS+360° surround-view driving assistance monitoring system

SOLUTION



- 360°view
- Touch screen functionality
- AI intelligent pedestrian detection
- ADAS
- DMS
- Custom warning area
- real time video

## Overview

The 360-degree panoramic monitoring system can realize 360-degree panoramic bird's-eye view, driver behavior detection, anti-collision warning, driving assistance, built-in AI intelligent algorithm, pedestrian recognition warning prompt, custom warning area and other functions. Supports panoramic image synthesis technology to create 3D driving scenes and full touch operation. Easy to install and calibrate. Whether in a small construction site space or a complex operating environment, it can provide a 360-degree monitoring view without blind spots in real time.



## Crane machinery—Wireless AP zoom monitoring system

SOLUTION



- 20x optical zoom
- Support SD card storage
- Support network control
- Wireless transmission 300M
- IP66
- HD monitor
- real time video

## Overview

The wireless zoom camera DVR monitoring system consists of an NVR recorder, a high-definition display, a high-speed zoom network camera, a 5.8G wireless box, and a four-dimensional joystick network keyboard. It adopts the IEEE802.11agn wireless standard and has a wireless transmission rate of up to 300Mbps, 5.8G single frequency Wireless self-organizing network, real-time transmission of smooth video, using the network keyboard to operate the network ball zoom, zoom, aperture, preset position, cruise and trajectory functions.





## Basic construction machinery— Intelligent BSD blind zone warning

SOLUTION



- Pedestrian and vehicle detection
- Level 4 warning custom area
- 130° wide viewing angle
- Sound and light warning
- Automotive grade chip
- IP69K
- HD monitor

## Port Machinery— Digital visual reversing radar system

SOLUTION



- Level 3 warning custom area
- Radar ranging
- Sound warning
- Obstacle detection
- Automotive grade chip
- IP69K
- HD monitor

### Overview

The intelligent BSD blind spot warning system can realize functions such as pedestrian and vehicle detection, divided into first-level alarm, second-level alarm, third-level alarm and fourth-level alarm customized areas according to the distance of objects from the vehicle, sound and light warning, etc. When there are people, vehicles or objects approaching, When the vehicle is in use, BSD will actively remind the driver, and at the same time, it will emit sound, light and voice to remind nearby people, vehicles and objects to stay away from the work area, effectively reducing the occurrence of accidents.



### Overview








The digital visual reversing radar system can realize three-level early warning. The customized area is divided into first-level alarm, second-level alarm and third-level alarm according to the distance of the object from the vehicle. The distance of each level can be adjusted freely. This system has many other functions. The sensor supports the detection of rear objects and converts the information into a visual digital display or an audio warning to help the driver better judge the distance and avoid collisions.



## Piling machinery— 7-inch 4-channel waterproof monitoring system

SOLUTION










-   
HD monitor
-   
Night vision distance  
15M
-   
Power save mode
-   
Driving assistance
-   
real time video
-   
Automotive grade chip
-   
IP69K

## Agriculture machinery— 7-inch 4-channel monitoring system

SOLUTION



-   
Four pictures
-   
Touch screen functionality
-   
Pedestrian and vehicle detection
-   
Comprehensive monitoring
-   
Level three warning
-   
Night vision mode
-   
real time video

## Overview

The main reason for installing a 7-inch 4-channel waterproof monitoring system is to improve work efficiency and safety. This kind of monitoring system usually provides a full range of vision, covering the front, rear, left and right directions of the drilling rig. Through real-time monitoring, the operator can discover potential safety hazards in time and avoid accidents. It has a video recording function that can record the work process for easy playback and analysis afterwards. It has good waterproof performance and can work normally in various harsh working environments.



## Overview

Install a four-channel high-definition monitoring system for agricultural machinery, and install four wired cameras with high-definition wired monitors to conduct all-round real-time monitoring of vehicles. For example, when a harvester is operating in the field, it can assist the harvester driver to observe the surrounding blind spots in real time, discover and solve safety hazards in a timely manner, and prevent harvester accidents. It can also observe the harvesting and loading conditions in real time to prevent crops from overflowing due to overloading and improve the efficiency of harvesting operations.



## Smart fleet management solution

SOLUTION



- Real-time remote monitoring
- Video recording function
- Vehicle management system
- DMS
- Support SD card
- Automotive grade chip
- IP69K

## AI wireless intelligent monitoring system

SOLUTION



- IPS HD monitor
- Touch screen functionality
- Pedestrian and vehicle detection
- Level three warning
- Wireless transmission
- Automotive grade chip
- IP69K

## Overview

Intelligent fleet management systems can promptly detect and record various safety incidents in the fleet, such as speeding, fatigue driving and illegal driving. Through real-time monitoring and data analysis, various risks in the fleet can be effectively prevented and controlled. The system can also monitor vehicle location, driving route and other information in real time, and monitor driver behavior. Through data analysis, companies can optimize fleet operation plans, improve transportation efficiency and reduce operating costs.



## Overview

The system uses advanced wireless communication technology to realize real-time transmission of data. It not only improves the efficiency and stability of data transmission, but also reduces the complexity and cost of system wiring. Through deep learning algorithms, it can collect data on vehicles and surrounding environments in real time, and conduct intelligent analysis through AI algorithms to provide drivers and managers with timely and accurate information support.

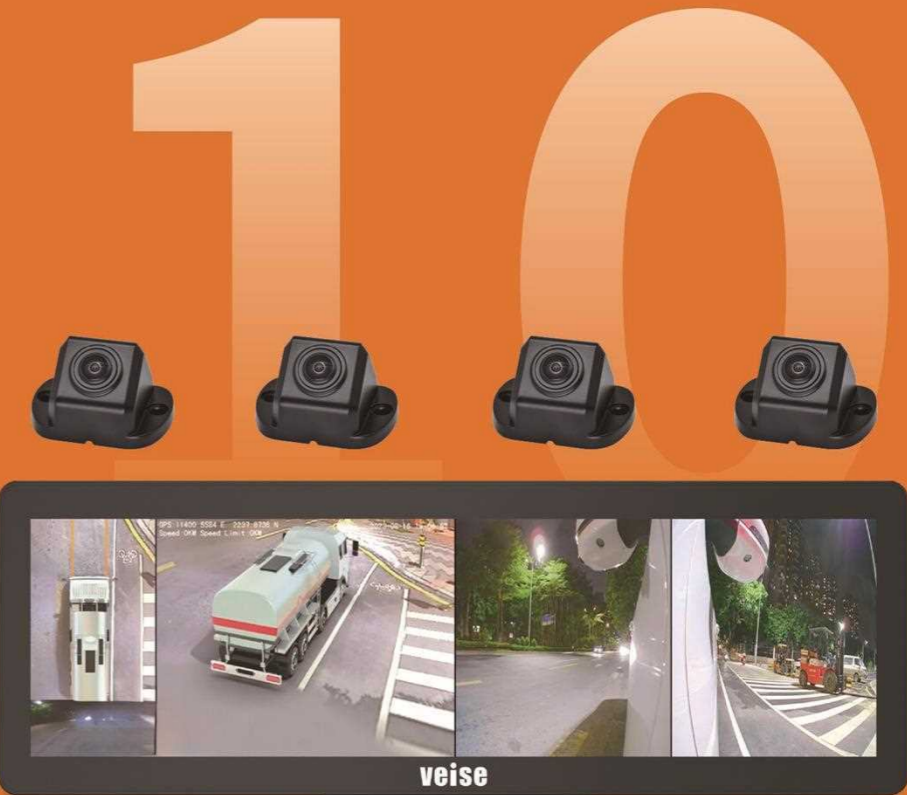


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## PRODUCT SYSTEM

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The embedded processor and embedded operating system support 360° panorama, Beidou positioning, 4G wireless network transmission, VGA high-definition display, 1080P high-definition video input, and dual hard drive storage. These properties enable widespread use in a variety of vehicle types and marine applications



## CHAPTER TWO

# PRODUCT SYSTEM

## 360° panoramic system >



The 360° panoramic system uses four ultra-wide-angle lenses distributed at the front, rear, left and right of the car to collect real-time images of their respective areas, and uses the image processing unit to perform distortion restoration, perspective conversion, image splicing and other processing. Finally, a complete real-time 360-degree panoramic overhead view is presented on the central control screen. Through this top view, the driver can intuitively see the real-time images around the vehicle, thereby achieving safer and more reliable parking.



1. Camera image collection: A 360-degree panoramic image requires at least four ultra-wide-angle cameras on the front, rear, left and right. These cameras collect images around the vehicle.

2. Determine the camera coordinates and image size: Use the car's outer dimensions as the origin to determine the camera coordinates and image size.

3. Optimize the image: Analyze the impact of various external environments on the camera, use algorithms to optimize the image, and eliminate the fisheye distortion of the wide-angle camera to the greatest extent.

4. Image splicing and fusion: Based on human visual habits, algorithms are used to splice the images from each camera into a continuous panoramic image.

5. Embed vehicle model: Embed the vehicle model into the image to form the final 360-degree stereoscopic image.



## Infrared thermal imaging camera >



**Night driving:** Thermal imaging cameras can help drivers see the road and obstacles better in dark environments.

**Fog or heavy rain:** In poor visibility conditions, thermal imaging cameras can provide additional information to help drivers avoid collisions.

**Fire monitoring:** Some vehicle-mounted monitoring systems can also be used to detect fire sources around the vehicle to improve fire warning capabilities.

## Intelligent wireless monitoring system >



The intelligent wireless monitoring system uses advanced wireless communication technology to realize real-time transmission of data. It not only improves the efficiency and stability of data transmission, but also reduces the complexity and cost of system wiring. The images collected by the camera are transmitted to the on-board display in real time, allowing the driver to understand the situation around the vehicle in real time. At the same time, the monitor also has a video recording function, which can record important moments during driving and provide evidence for subsequent accident handling or analysis.

**Real-time transmission:** The system can transmit monitoring images in real time, allowing monitoring personnel to quickly obtain information and take necessary measures.

**Video database:** The system automatically forms a video database to facilitate future retrieval and analysis.

**Flexible expansion and low-power design:** In order to meet the needs of different users, this system supports flexible expansion and can add cameras as needed. At the same time, the low-power design ensures long-lasting and stable operation of the system, reducing energy consumption and maintenance costs.



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## PRODUCT PARAMETERS

Product parameters are important indicators for evaluating equipment performance and help users fully understand the various performance indicators of the equipment. Product parameters also determine the applicable scope and usage scenarios of the product. Different product parameters are suitable for different working environments and work requirements. It is directly related to product performance, usage efficiency and user satisfaction.



## CHAPTER THREE

# HD MONITOR



## 7inch



Model:	MHD-761
:	1024RGB(H)X600(V)
Contrast:	800:1
Brightness(cd/m <sup>2</sup> ):	600
Angle:	(up/down/left/right): 85°
scale:	16:9
Color format:	PAL/NTSC(Auto)
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Camera input:	2-way AHD
Picture mode:	Single screen
Store maximum value:	/
Working temperature:	-20°C~+70°C
Storage temperature:	-30°C~+80°C
Working voltage:	DC11V~DC32V

## 7inch



Model:	MHD-771   MHD-774M
Monitor resolution:	1024RGB(H)X600(V)
Contrast:	800:1
Brightness(cd/m <sup>2</sup> ):	600
Angle:	(up/down/left/right): 85°
scale:	16:9
Color format:	PAL/NTSC(AUOT)
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Camera input:	2-way AHD   4-way AHD
Picture mode:	Single screen   Four screens
Store maximum value:	/
Working temperature:	-20°C~+70°C
Storage temperature:	-30°C~+80°C
Working voltage:	DC11V~DC32V

## 7inch



Model:	MHD-751   MHD-754D
Monitor resolution:	1024RGB(H)X600(V)
Contrast:	800:1
Brightness(cd/m <sup>2</sup> ):	600
Angle:	(up/down/left/right): 85°
scale:	16:9
Color format:	PAL/NTSC(Auto)
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Camera input:	1-way AHD   4-way AHD
Picture mode:	Single screen   Four screens
Store maximum value:	/   Built-in TF card (512G)
Working temperature:	-20°C~+70°C
Storage temperature:	-30°C~+80°C
Working voltage:	DC11V~DC32V

## 7inch



Model:	MHD-7154M
Monitor resolution:	1024RGB(H)X600(V)
Contrast:	800:1
Brightness(cd/m <sup>2</sup> ):	600
Angle:	(up/down/left/right): 85°
scale:	16:9
Color format:	PAL/NTSC(Auto)
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Camera input:	4-way AHD
Picture mode:	Four screens
Store maximum value:	/
Working temperature:	-20°C~+70°C
Storage temperature:	-30°C~+80°C
Working voltage:	DC11V~DC32V

## 7inch



Model:	MHD-7131   MHD-7134
Monitor resolution:	1024RGB(H)X600(V)
Contrast:	800:1
Brightness(cd/m <sup>2</sup> ):	600
Angle:	(up/down/left/right): 85°
scale:	16:9
Color format:	PAL/NTSC(Auto)
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Camera input:	1-way AHD   4-way AHD
Picture mode:	Single screens   Four screens
Store maximum value:	/
Working temperature:	-20°C~+70°C
Storage temperature:	-30°C~+80°C
Working voltage:	DC11V~DC32V

## 7inch



Model:	MHD-764S   MHD-764D
Monitor resolution:	1024RGB(H)X600(V)
Contrast:	800:1
Brightness(cd/m <sup>2</sup> ):	600
Angle:	(up/down/left/right):85°
Scale:	16:9
Color format:	PAL/NTSC(Auto)
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Camera input:	4-way AHD
Picture mode:	Four screens
Store maximum value:	/   TF card (512G)
Working temperature:	-20°C~+70°C
Storage temperature:	-30°C~+80°C
Working voltage:	DC11V~DC32V

## 9inch



Model:	MHD-911   MHD-914S
Monitor resolution:	1024RGB(H)X600(V)
Contrast:	800:1
Brightness(cd/m <sup>2</sup> ):	600
Angle:	(up/down/left/right):85°
Scale:	16:9
Color format:	PAL/NTSC(Auto)
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Camera input:	1-way AHD   4-way AHD
Picture mode:	Single screens   Four screens
Store maximum value:	/
Working temperature:	-20°C~+70°C
Storage temperature:	-30°C~+80°C
Working voltage:	DC11V~DC32V

## 7inch



Model:	MWH-781
Monitor resolution:	1024RGB(H)X600(V)
Contrast:	800:1
Brightness(cd/m <sup>2</sup> ):	600
Angle:	(up/down/left/right):85°
Scale:	16:9
Color format:	PAL/NTSC(Auto)
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Camera input:	2-way AHD
Picture mode:	Single screens
Store maximum value:	/
Working temperature:	-20°C~+70°C
Storage temperature:	-30°C~+80°C
Working voltage:	DC11V~DC32V

## 10.1inch



Model:	MHD-1021   MHD-1024D
Monitor resolution:	1024RGB(H)X600(V)
Contrast:	800:1
Brightness(cd/m <sup>2</sup> ):	600
Angle:	(up/down/left/right):85°
Scale:	16:9
Color format:	PAL/NTSC(Auto)
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Camera input:	2-way AHD   4-way AHD
Picture mode:	Dual screen   Four screens
Store maximum value:	/   SD CARD (512G)
Working temperature:	-20°C~+70°C
Storage temperature:	-30°C~+80°C
Working voltage:	DC11V~DC32V

## 9inch



Model:	MHD-914D   MHD-918D
Monitor resolution:	1024RGB(H)X600(V)
Contrast:	800:1
Brightness(cd/m <sup>2</sup> ):	600
Angle:	(up/down/left/right):85°
Scale:	16:9
Color format:	PAL/NTSC(Auto)
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Camera input:	4-way AHD   8-way AHD
Picture mode:	Four screens   eight screens
Store maximum value:	SD card (512G)
Working temperature:	-20°C~+70°C
Storage temperature:	-30°C~+80°C
Working voltage:	DC11V~DC32V

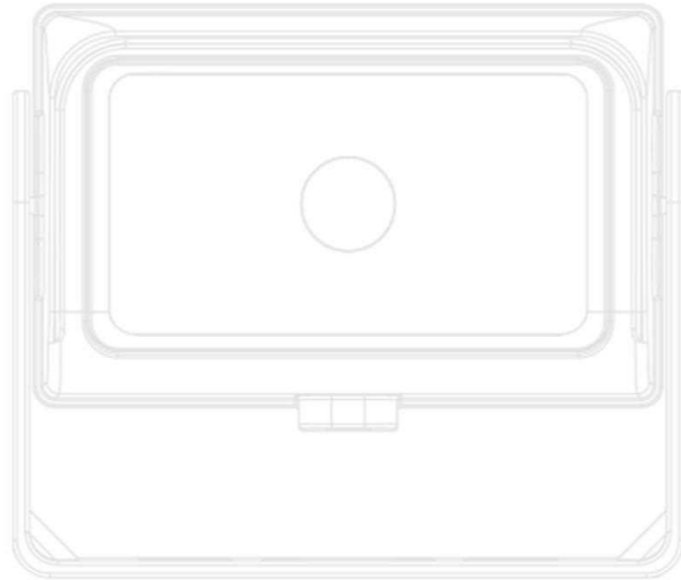
## 10.1inch



Model:	MHD-1014MDTP
Monitor resolution:	1024RGB(H)X600(V)
Contrast:	800:1
Brightness(cd/m <sup>2</sup> ):	600
Angle:	(up/down/left/right):85°
Scale:	16:9
Color format:	PAL/NTSC(Auto)
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Camera input:	4-way AHD
Picture mode:	Four screens
Store maximum value:	TF card (512G)
Working temperature:	-20°C~+70°C
Storage temperature:	-30°C~+80°C
Working voltage:	DC11V~DC32V



# HD CAMERA



## AI INTELLIGENCE



Model:	CHD-122MAI
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
AI detection algorithm:	Pedestrian detection, vehicle detection, non-motor vehicle detection
Alarm Out:	Sounder alarm
Minimum illumination:	0.01Lux
VIDEO SIGNALS:	AHD 1080P
Signal-to-noise ratio:	≥46dB
Night vision function:	Starlight full color
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V

## STARLIGHT FULL COLOR



Model:	CHD-122MX
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 80° Vertical angle 110°
Frame frequency:	25FPS
Minimum illumination:	0.01Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥41dB
Night vision function:	Starlight full color
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+70°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V

## STARLIGHT FULL COLOR



Model:	CHD-19B1S
Video format:	PAL/NTSC
Resolution:	1280(H)X960(V)
Viewing angle:	Horizontal angle 160°
Frame frequency:	25FPS
Minimum illumination:	0.01Lux
Video signal:	AHD 720P
Signal-to-noise ratio:	≥45dB
Night vision function:	Starlight full color
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V±1V

## STARLIGHT FULL COLOR



Model:	CHD-271S
Video format:	PAL
Resolution:	1280(H)X960(V)
Viewing angle:	Horizontal angle 165°
Frame frequency:	25FPS
Minimum illumination:	0.001Lux
Video signal:	AHD 720P
Signal-to-noise ratio:	≥45dB
Night vision function:	white light starlight
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V-DC24V

## STARLIGHT FULL COLOR



Model:	CHD-391Z
Video format:	PAL/NTSC
Resolution:	1280(H)X960(V)
Viewing angle:	Horizontal angle 150°
Frame frequency:	25FPS
Minimum illumination:	0.01Lux
Video signal:	AHD 720P
Signal-to-noise ratio:	≥38dB
Night vision function:	Starlight full color
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V

## STARLIGHT FULL COLOR



Model:	CHD-381ZX
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle approx. 150°
Frame frequency:	25FPS
Minimum illumination:	0.001Lux
Video signal:	AHD 720P
Signal-to-noise ratio:	≥45dB
Night vision function:	/
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V

## REAR VIEW CAMERA



Model:	CHD-132Z
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 85° Vertical angle 110°
Frame frequency:	25FPS
Minimum illumination:	0.001Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥45dB
Night vision function:	/
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V

## REAR VIEW CAMERA



Model:	CHD-102Z
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 85° Vertical angle 110°
Frame frequency:	25FPS
Minimum illumination:	0.001Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥45dB
Night vision function:	Day color mode, night black and white mode
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V

## REAR VIEW CAMERA



Model:	CHD-142M
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 85° Vertical angle 110°
Frame frequency:	25FPS
Minimum illumination:	0.001Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥45dB
Night vision function:	Day color mode, night black and white mode
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V-DC32V

## REAR VIEW CAMERA



Model:	CHD-121Z
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 85° Vertical angle 110°
Frame frequency:	25FPS
Minimum illumination:	0.001Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥45dB
Night vision function:	Day color mode, night black and white mode
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V

## REAR VIEW CAMERA



Model:	MHD-172M
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 85° Vertical angle 110°
Frame frequency:	25FPS
Minimum illumination:	0.001Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥45dB
Night vision function:	Day color mode, night black and white mode
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V

## SIDE-VIEW CAMERA



Model:	CHD-192Z
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 85° Vertical angle 110°
Frame frequency:	25FPS
Minimum illumination:	0.001Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥45dB
Night vision function:	/
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V

## SIDE-VIEW CAMERA



Model:	CHD-202M
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 85° Vertical angle 110°
Frame frequency:	25FPS
Minimum illumination:	0.001Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥45dB
Night vision function:	/
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V

## VEHICLE INTERIOR CAMERA



Model:	CHD-582M
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 85° Vertical angle 110°
Frame frequency:	25FPS
Minimum illumination:	0.001Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥45dB
Night vision function:	/
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V

## 360° panorama



Model:	CHD-802Z
Video format:	PAL
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 210° Vertical angle 126°
Frame frequency:	25FPS
Minimum illumination:	0.01Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥60dB
Night vision function:	Starlight full color
Waterproof level:	IP67
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+70°C
Storage temperature:	-40°C~+80°C
Working voltage:	DC8V-DC16V

## 360° panorama



Model:	CHD-805Z
Video format:	PAL
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 210° Vertical angle 126°
Frame frequency:	25FPS
Minimum illumination:	0.01Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥60dB
Night vision function:	Starlight full color
Waterproof level:	IP67
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+70°C
Storage temperature:	-40°C~+80°C
Working voltage:	DC8V-DC16V

## 360° panorama



Model:	MHD-806Z
Video format:	PAL
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 210° Vertical angle 126°
Frame frequency:	25FPS
Minimum illumination:	0.01Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥60dB
Night vision function:	Starlight full color
Waterproof level:	IP67
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+70°C
Storage temperature:	-40°C~+80°C
Working voltage:	DC8V-DC16V

## 360° panorama



Model:	CHD-807Z
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 210° Vertical angle 126°
Frame frequency:	25FPS
Minimum illumination:	0.01Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥60dB
Night vision function:	Starlight full color
Waterproof level:	IP67
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~70°C
Storage temperature:	-40°C~80°C
Working voltage:	DC8V-DC16V

## IPC



Model:	IPC-132Z
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 85° Vertical angle 110°
Frame frequency:	25FPS
Minimum illumination:	0.05Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥45dB
Night vision function:	/
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-30°C~+70°C
Working voltage:	DC12V

## IPC



Model:	IPC-582Z
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 85° Vertical angle 110°
Frame frequency:	25FPS
Minimum illumination:	0.05Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥45dB
Night vision function:	/
Waterproof level:	IP69K
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-30°C~+70°C
Working voltage:	DC12V

## EXPLOSION-PROOF CAMERA



Model:	CHD-682M
Video format:	PAL/NTSC
Resolution:	1920(H)X1080(V)
Viewing angle:	Horizontal angle 85° Vertical angle 110°
Frame frequency:	25FPS
Minimum illumination:	0.001Lux
Video signal:	AHD 1080P
Signal-to-noise ratio:	≥52dB
Night vision function:	/
Waterproof level:	IP68
Anti-vibration level:	Comply with GB/T2423.56-2008 standard
Working temperature:	-20°C~+60°C
Storage temperature:	-20°C~+70°C
Working voltage:	DC12V

## 4-CHANNEL HARD DISK VIDEO RECORDER



Model:	DF-9804-4H
Operating system:	Embedded Linux
Menu language:	Simplified Chinese, English, Russian (customizable language)
Preview function:	Support single screen, 2/4/6/8 screen stitching preview
Video output:	HDMI X1; VGA X1; CVBS X2
Video format:	PAL format or NTSC format
Audio output:	1 channel audio out
Audio input:	Aviation head interface
Main stream resolution:	1080P/720P/D1
Save quality:	Normal, standard (default), high definition, ultra high definition 4 levels optional
Storage medium:	SD card supports 512G, hard disk supports 4T
Working temperature:	-30°C~+70°C
Power consumption:	<4.5W
Working voltage:	8V-36V

## 8-CHANNEL HARD DISK VIDEO RECORDER



Model:	DF-9808-8H
Operating system:	Embedded Linux
Menu language:	Simplified Chinese, English, Russian (customizable language)
Preview function:	Support single screen, 2/4/6/8 screen stitching preview
Video output:	HDMI X1; VGA X1; CVBS X2
Video format:	PAL format or NTSC format
Audio output:	1 channel audio out
Audio input:	Aviation head interface
Main stream resolution:	1080P/720P/D1
Save quality:	Normal, standard (default), high definition, ultra high definition 4 levels optional
Storage medium:	SD card supports 512G, hard disk supports 4T
Working temperature:	-30°C~+70°C
Power consumption:	<4.5W
Working voltage:	8V-36V

# Electric fork invisible reversing radar

SOLUTION



# AHD visual reversing radar

SOLUTION



Product parameters			
Model:	FP-DC-H6514-4M	Lightning protection design:	600W TVS tube, strong earthquake resistance and anti-interference
Detection range:	0-5M	Anti-interference design:	Contains a relay and is designed with an extra large farad capacitor
Sound decibels:	80-90Db	Plug design:	4-core aviation interface
Accuracy:	0.1M	Waterproof rating:	IP67
Detection angle:	XY=60°	Working temperature:	-30°C ~80°C
Reaction time:	0.25M/S	Working voltage:	12-110V withstand voltage
Beam angle:	single angle 60-80°C	Rated working voltage:	12V-24V DC

Product parameters			
Model:	FP-SR-HC5004-5M-AHD	Power consumption:	1.0 watt average, 1.2 watt maximum
Detection range:	0.3-3.5M	Alarm prompt:	Peak sounder alarm prompt
Accuracy:	0.1M	Anti-vibration grade :	Comply with GB/T2423.56-2008 standard
Detection angle:	XY=60-80°	Waterproof rating:	IP65
Reaction time:	0.2M/S	working temperature:	-30°C~80°C
video input:	AHD 720P (Camera signal)	Working voltage:	12-24V DC
video output:	AHD 720P	Rated working voltage:	Wide voltage, 9-35V withstand voltage