

XIAMEN HARINE TECHNOLOGY CORPORATION LTD.

Leading Smart Mobility, Link Screens to All Things for the New Era

www.hlmonitor.com

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01

About Harine



About Harine

Harine



National High-tech Enterprise

"LCD Panels" is the core resources,
Solutions/systems/products are commercial-vehicles-driven;

Quality Systems Approved

IATF16949 Quality Management System
ISO9001 Quality Management System
ISO14001 environment management system
ISO45001 Occupation Health Safety
Management System

Independent R&D, production centers;

It offers a core products/systems :

- ★ Vehicle intelligent cockpit monitors;
 - ★ Vehicle multi-media&info. systems;
 - ★ Vehicle safety assistance systems;
- Combine the above together to carry out overall solutions for commercial vehicles.



Employee: 140;



R&D Member: 40;



Factory Area: 12000m2;



Output: 1 million sets;



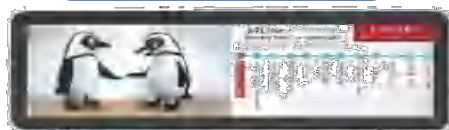
Annual yield: 15million USD ;



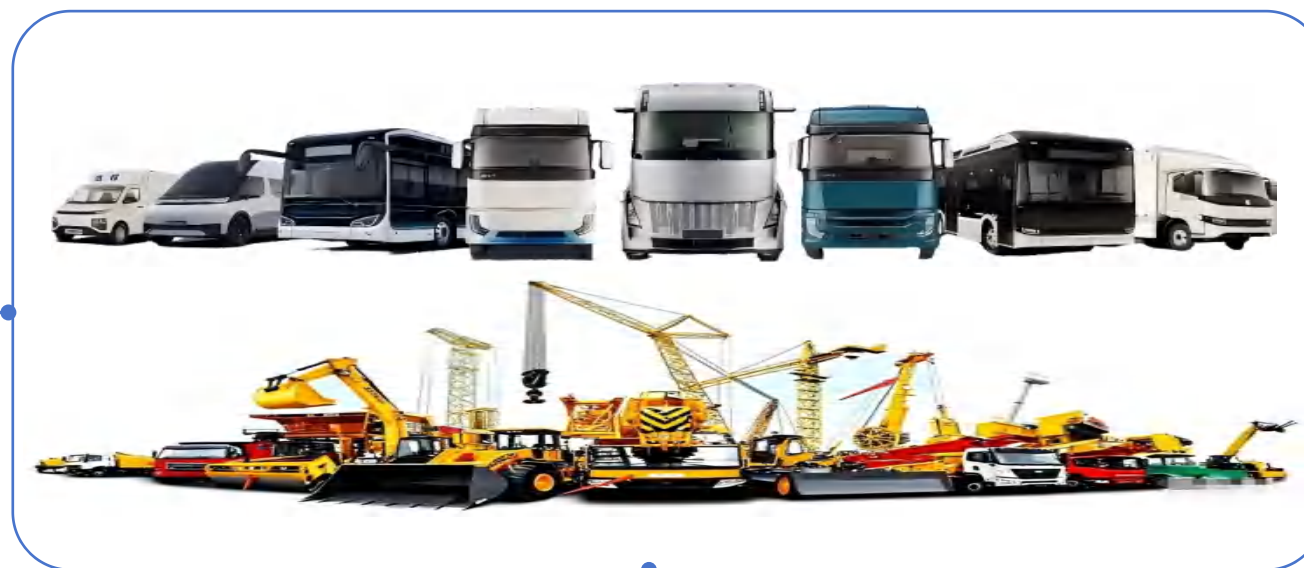
Company Portrait :SRDI
(Specialized; Refinement;
Differential; Innovation)

Products Application Scenario

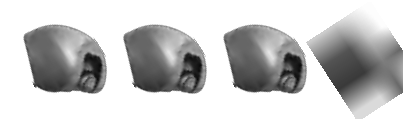
Multi-Media



Monitor&Player



Surveillance System



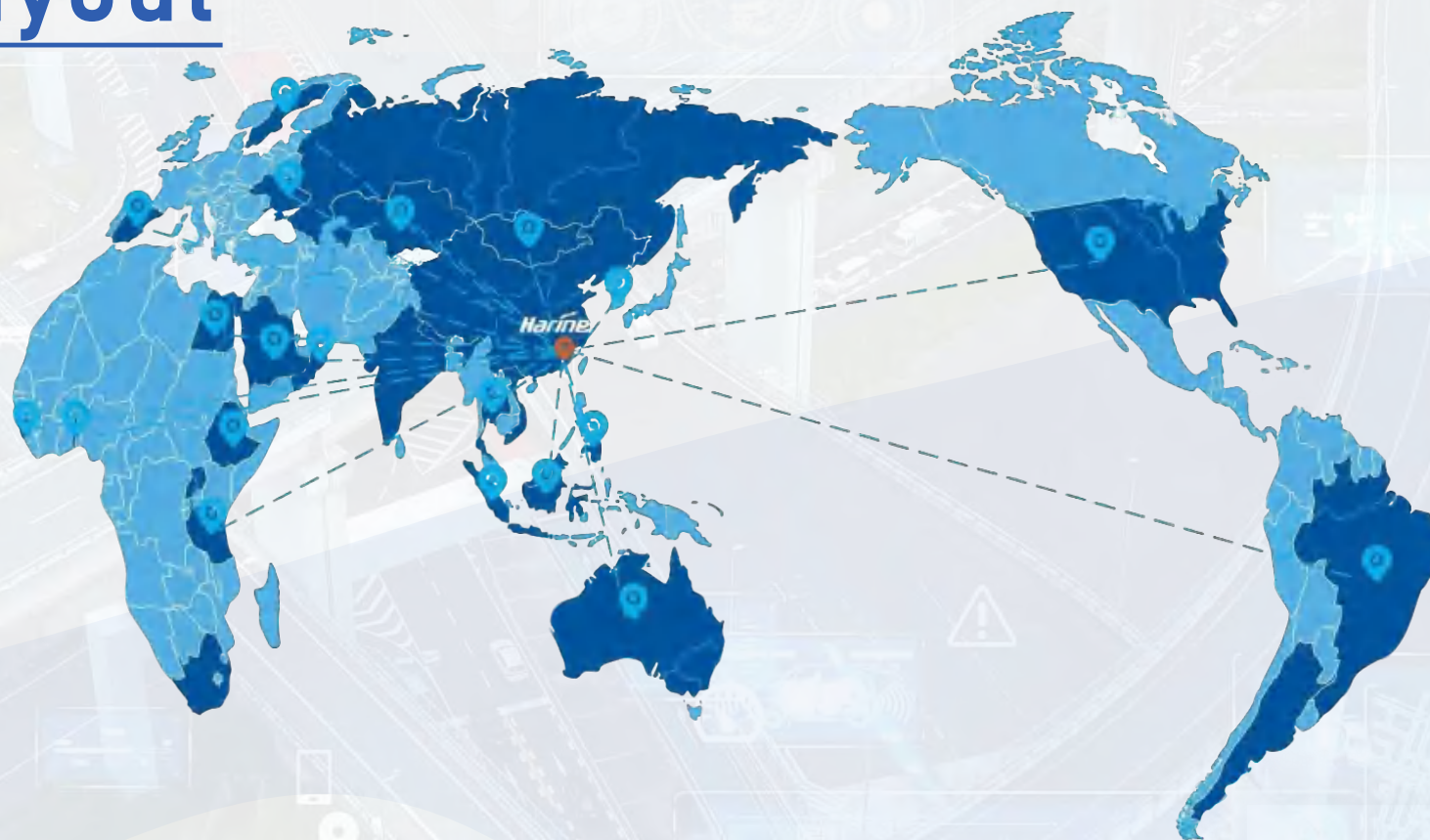
Panoramic & Radar System



Cockpit monitor

Market Layout

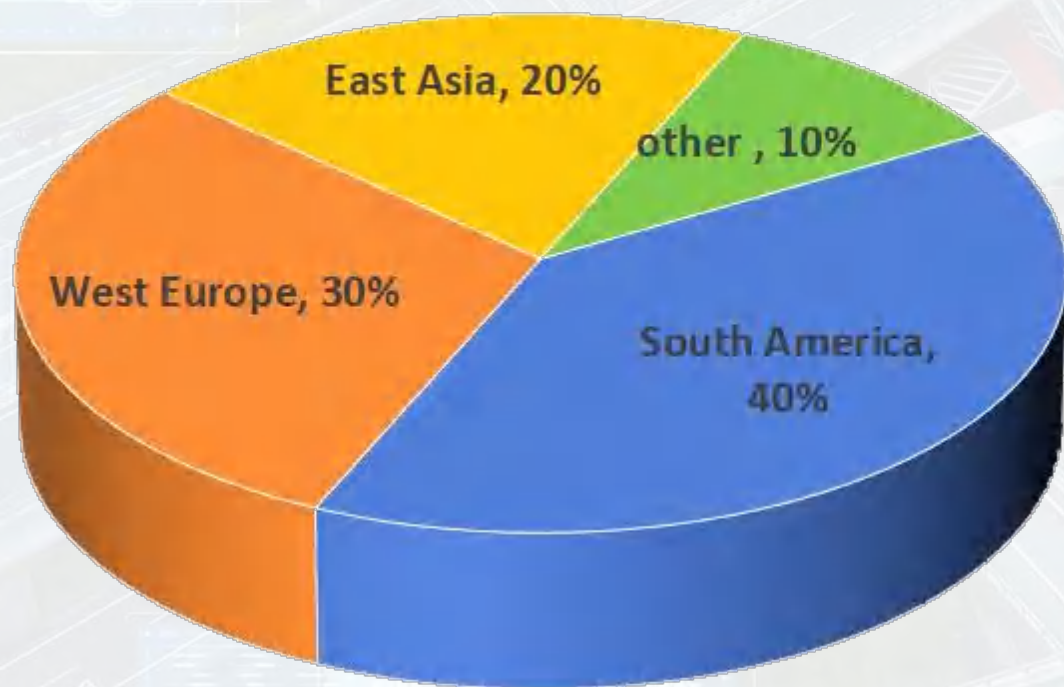
Harine



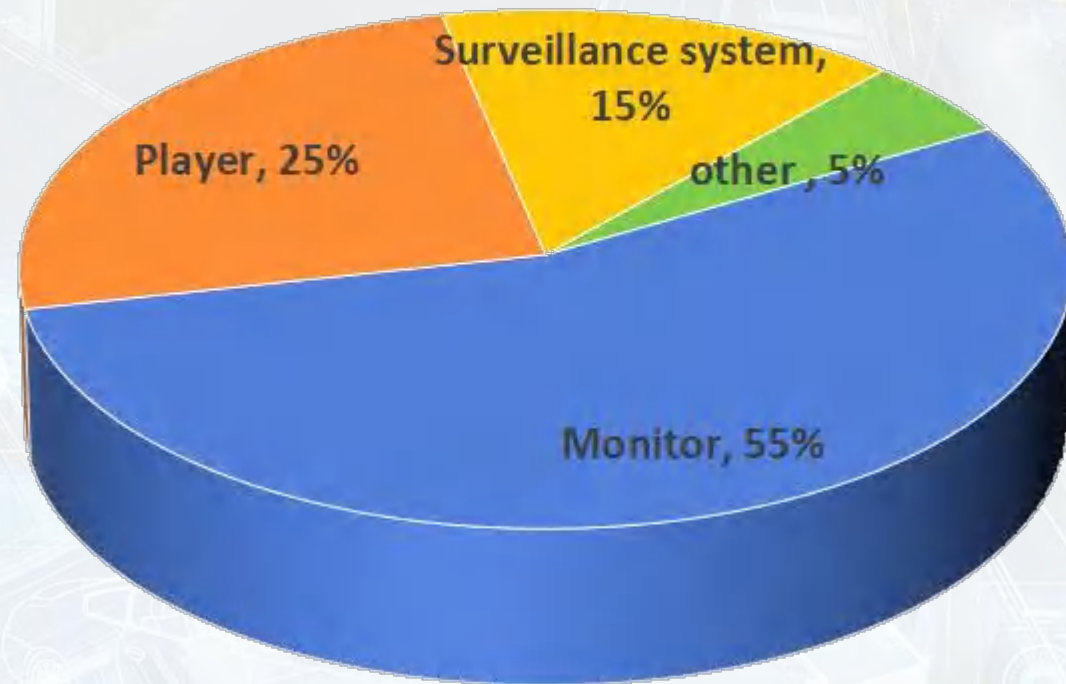
- The products of vehicle multi-media products have consistently ranked first nationwide in terms of shipment volume for several consecutive years.
- Product application scenarios: buses, tourism coaches, school buses, logistics vehicles, engineering vehicles, high-speed rail and subway.
- It has a market coverage of over 300 cities across the country, and cooperation relationships with more than 20 major car manufacturers.
- Has built out global export network: Southeast Asia, Europe, North / South America, Oceania, and Africa, among other places.

Market Layout

Oversea Market Shares



Oversea Products Share



Developing History

2007-2009 Start-up stage

- Established in 2007;
- It launched cassette player and CCFL LCD monitor;
- In 2009, the company moved to
- Lenovo Industrial Park;

2014-2017 Developing stage

- Obtained 3A credit certification;
- Received the title of Leading Enterprise in Fujian's Technology SMEs
- Stock reform completed;
- Obtained the two-in-one integration management system certification;
- Developed 4G advertising system.
- Set up business with HIGER, SANY

2022-2025 New develop stage

- Successful periodic external audits of IATF16949-2016;
- ISO14001 environmental management system cert.
- ISO45001 occupational health management system cert.;
- Re-certification as a national high-tech enterprise;
- Intelligent driving assistance system;
- 5G application on vehicle media;
- Moved to the Phase III of Xiang'an Torch Science and Technology Enterprise Accelerator;
- Full-link Digital Transformation of PLM, ERP and MES

01

02

03

04

05

2010-2013 Exploration stage

- National high-tech enterprise certification
- TS16949 Quality system certification
- Moved to a factory with its own property rights
- Developed a series of display products

2018-2021 Rising stage

- Updated to IATF16949-2016 certification
- Moved to the third phase office building of the Software Park
- Re-certified as a national high-tech enterprise
- Completed the standardization of intellectual property
- Developed the vehicle network platform, outdoor media platform, the cockpit monitor, 360 surround view system, and Bluetooth MP3
- Entered the supply chain of XCMG Group and the Toyota (Chengdu,China)

Honor&Certificate

Harine

➤ Honor (30+)

- National High-tech Enterprise;
- Listed as SRDI Enterprise in Fujian Province;
- Technology Small Giant" Enterprise in Fujian Province;
- Major taxpayer recognised by Xiamen Government;
- Innovative (Pilot) Enterprises;
- Qualified supplier for major bus manufactures in China



➤ Quality System

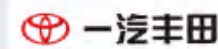
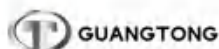
- IATF16949 Auto Parts Quality System
- ISO9001 Quality System;
- ISO14001 Environment certification;
- Integration Informationization and Industrialization Management System Certificate
- Certification for implementing the intellectual property standardization program;

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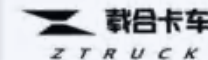
Prestigious Partners



Bus/Coach
Builders



Engineering
Vehicles



Shuttle&
Train/Metro

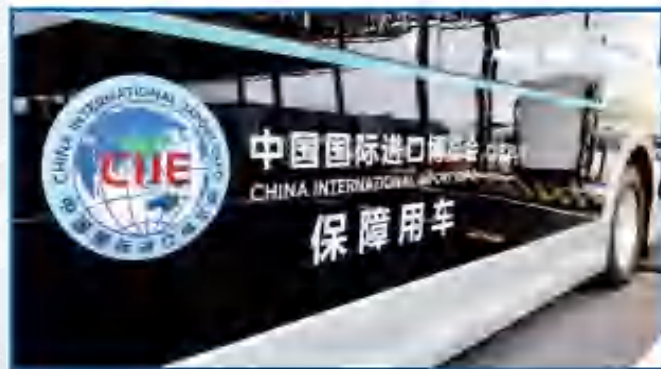


Market Typical&Significant Cases

In 2020, Shenzhen Special Zone
40th anniversary Shuttle



2018 China Import Expo Shuttle
Shanghai



2020 Winter Olympics
Hydrogen Energy Shuttle



02

R&D and Productivity Strengths



R&D Strengths



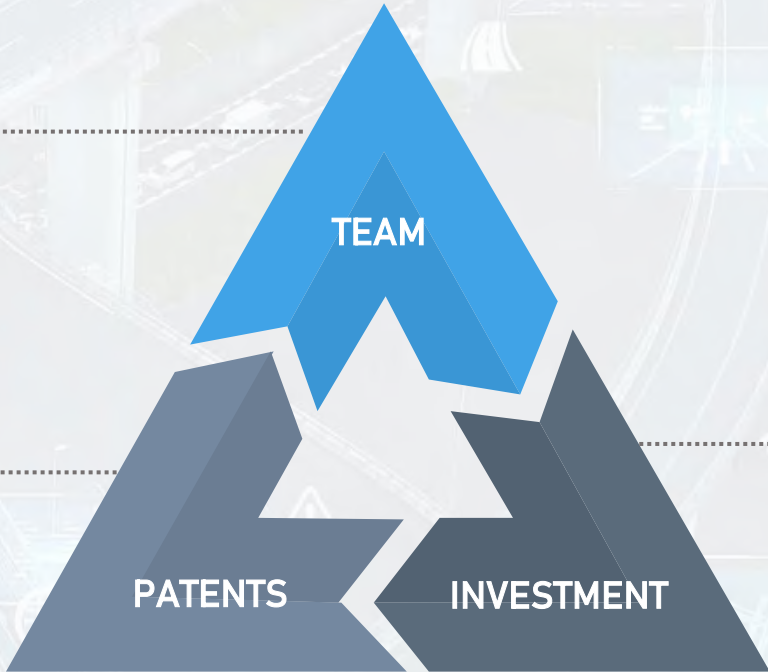
R&D Dept.



Products Certifications

40+ Members

Obtained over 100 national patents



R&D investment has been increasing yearly



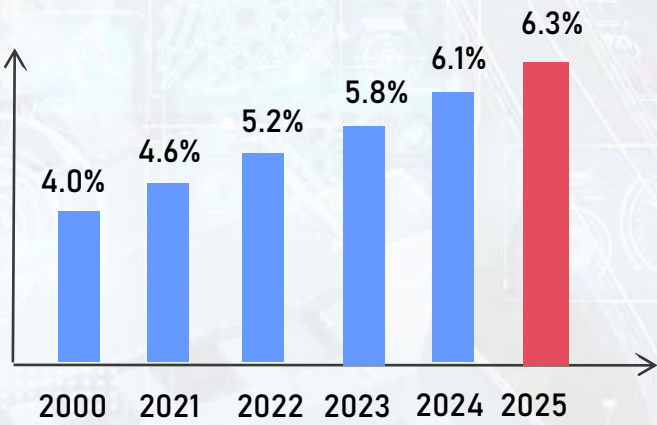
Invention Patents



Utility Patent



Design Patent



R&D Strengths

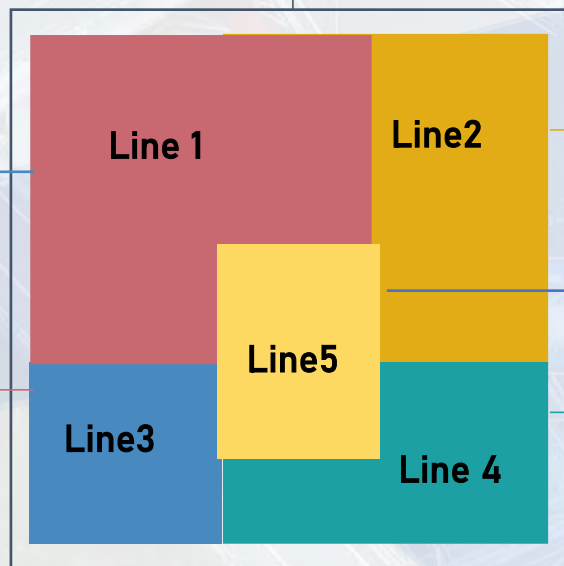
Laboratory



Productivity Strengths



5 lines, 1 million sets



Productivity Strengths



Quality Management System IATF16949

Quality Management System ISO9001

Environment management system ISO14001

Occupation Health Safety Management System ISO45001

Intellectual property certification system

The integration management system of informatization and industrialization

12K Square meters factory

Process management of full-chain digital transformation

5 production lines

Professional testing and inspection equipments

Self-owned laboratory

3 subsidiary suppliers

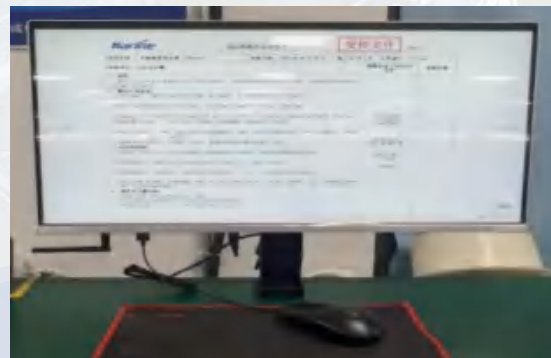
Productivity Strengths



Productivity Strengths

Process Management

SOP



IDM

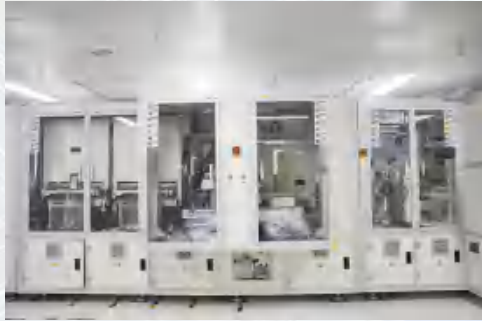


5S

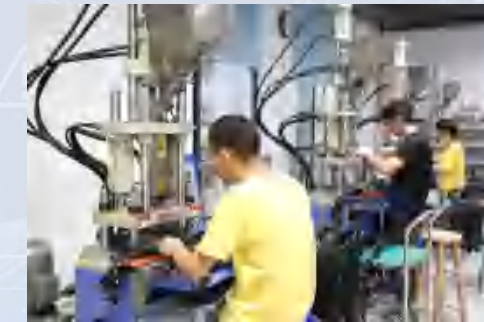


Productivity Strengths

Subsidiary suppliers



**LCD
Panel**



**Customized
Wire
Harness**



**Completed
products**

A decorative graphic consisting of a grid of small blue and white dots is located in the top left corner.

03

Products Series and Service

A decorative graphic consisting of two horizontal blue lines with rounded ends is located below the title.

Systems/products series Lay-Out

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Main products

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**Series
01**

**Vehicle Intelligent
Cockpit Monitor**

Vehicle Intelligent Cockpit Monitor

Haríne



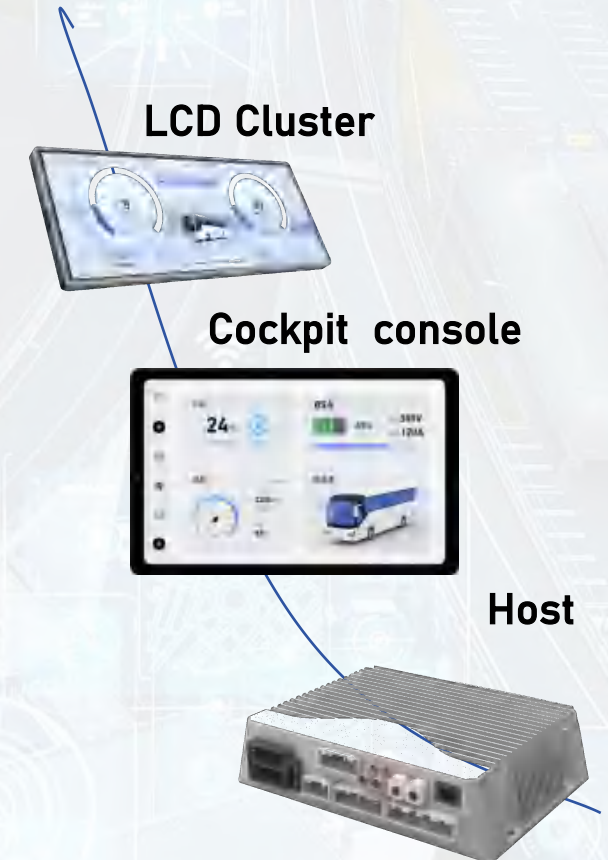
Haríne

Intelligent Vehicle Cockpit Domain Control System-- RM630

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Main Functions

- A dedicated domain control system integrating navigation, multimedia playback, information display and cockpit domain control for commercial vehicles;
- Adopts an automotive-grade chip as the main control unit;
- Integrates modules including GPS/BDS integrated positioning, FM radio, Bluetooth and WiFi;
- Adopts the Android operating system (supporting the expansion of Android/RTOS dual systems);
- Supports mobile phone interconnection, navigation, voice recognition and other functions;
- Capable of reading original vehicle data via the CAN interface:
 - Enables control of the vehicle's emergency switch, lighting, ECAS and other components;
 - Displays vehicle status, fault codes and other related information;
 - Supports dual HSD screen display.



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Host



12.3inch Cluster



12.8inch cockpit
console/monitor

System Features

Octa-core chip design, compatible with Android/RTOS dual systems, supports touch operation

MP3 & MP4 playback, with reserved expansion for independent audio between driver and passenger zones

Built-in Bluetooth hands-free call and Bluetooth music functions

Built-in high-capacity eMMC for map data storage

Supports CAN bus steering wheel control, air conditioning control, lighting control, etc.

Quick reverse switching and multi-channel video input

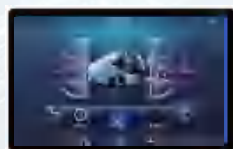
Vehicle Intelligent Cockpit Monitor

Harine

COCKPIT MONITOR EDITIONS

SmartLink Edition

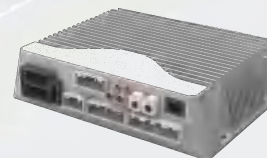
Equipped with a 4G communication module, Remote OTAupdate, With more intelligent control functions



10.1 inch



12.3 inch



RM630



12.3inch



12.8inch

Elite Edition

Vehicle-grade solution, Stable and reliable, Rich in functions



9 inch



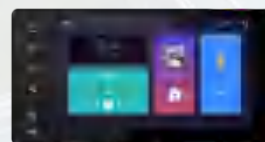
9 inch



10.1 inch

Basic Edition

Integrates the functions of a player and a monitor, with high cost-effectiveness



7 inch



7 inch

NEW

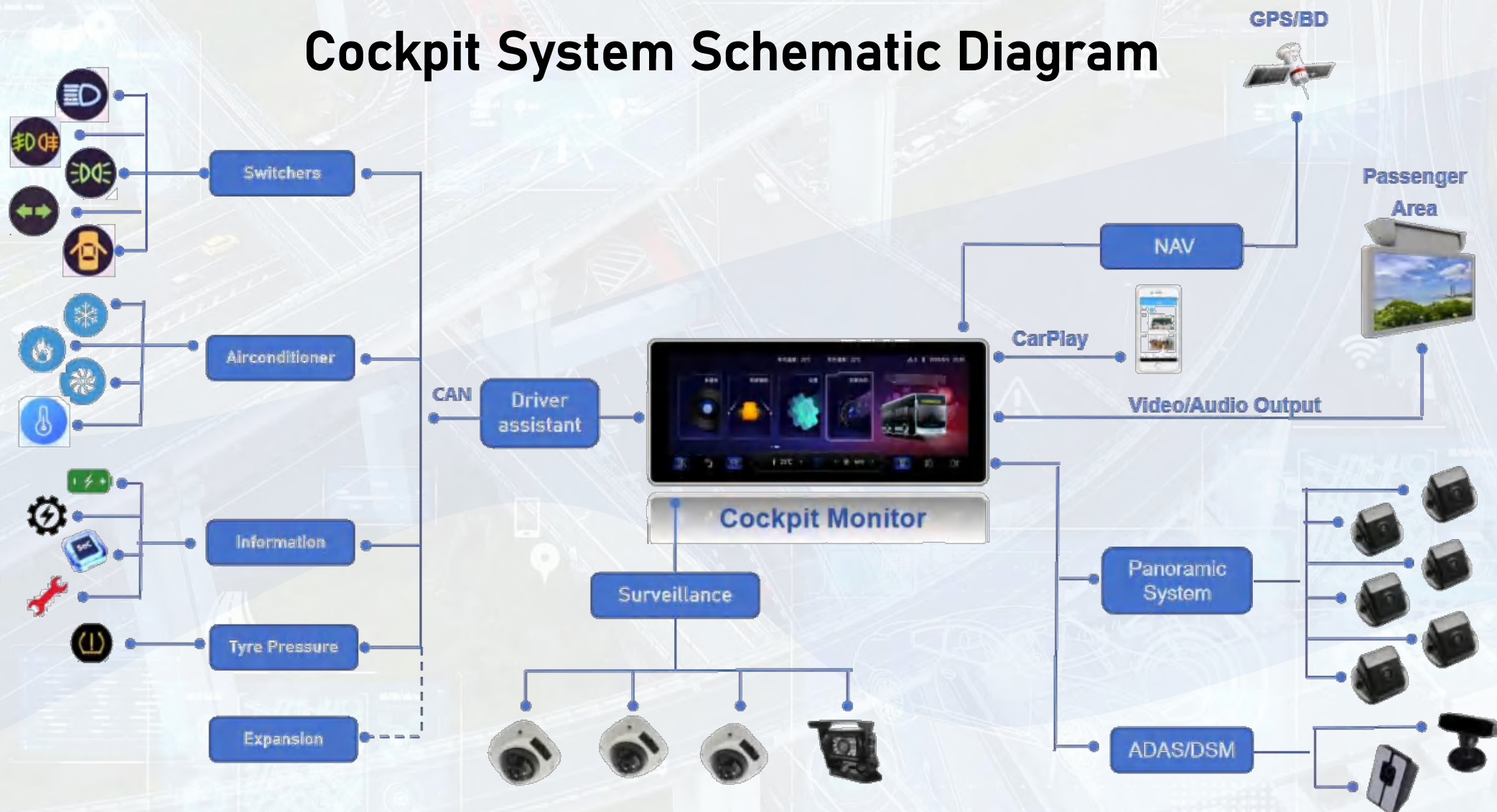
NEW

NEW

Harine

Vehicle Intelligent Cockpit Monitor

Cockpit System Schematic Diagram



Application Cases

Harine



Harine

Main products

Hariné

**Series
02**

Multi-media System

Multi-media System

Harine



LED
Digital Signage



LCD
Digital Signage
/monitor(IPxPT)



Monitor
(Motorized)



Accessories

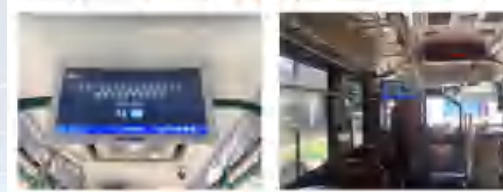
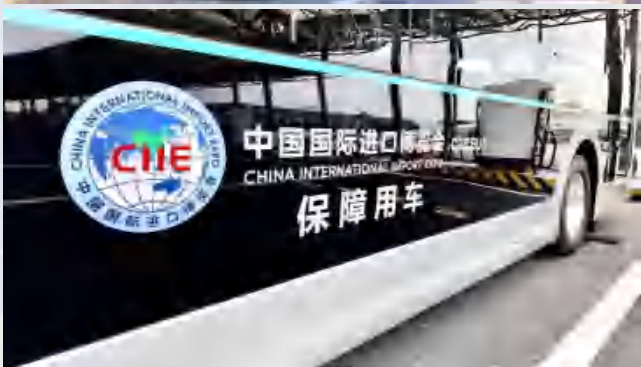


Players
MP3/MP5/RADIO

Monitor & Digital Signage Series



Application Cases



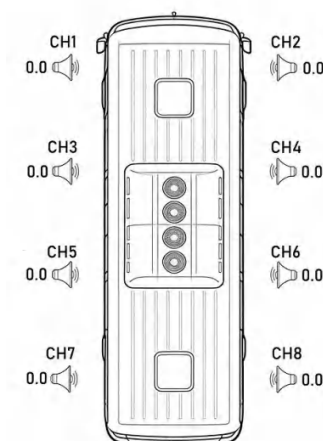
Player Series



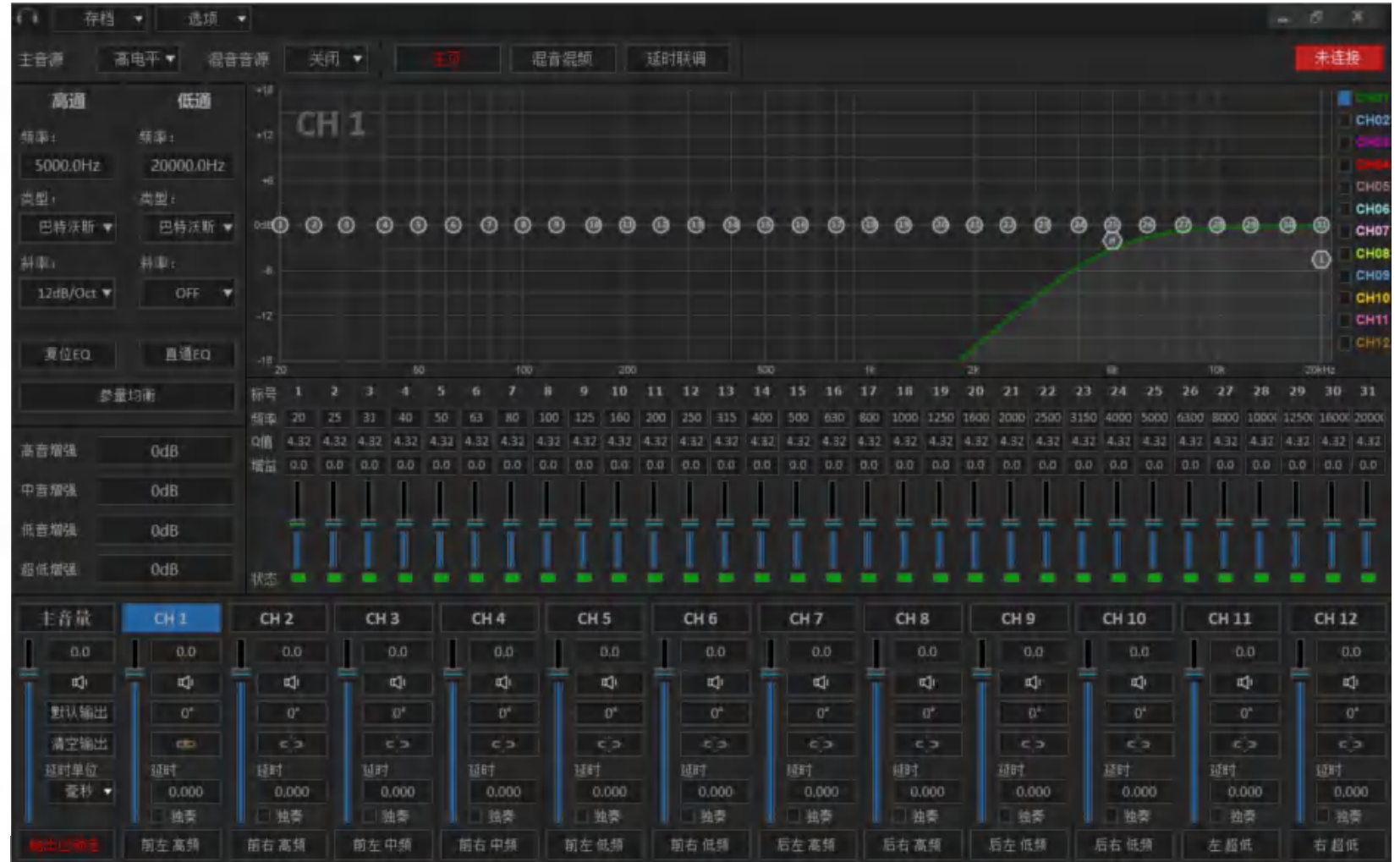
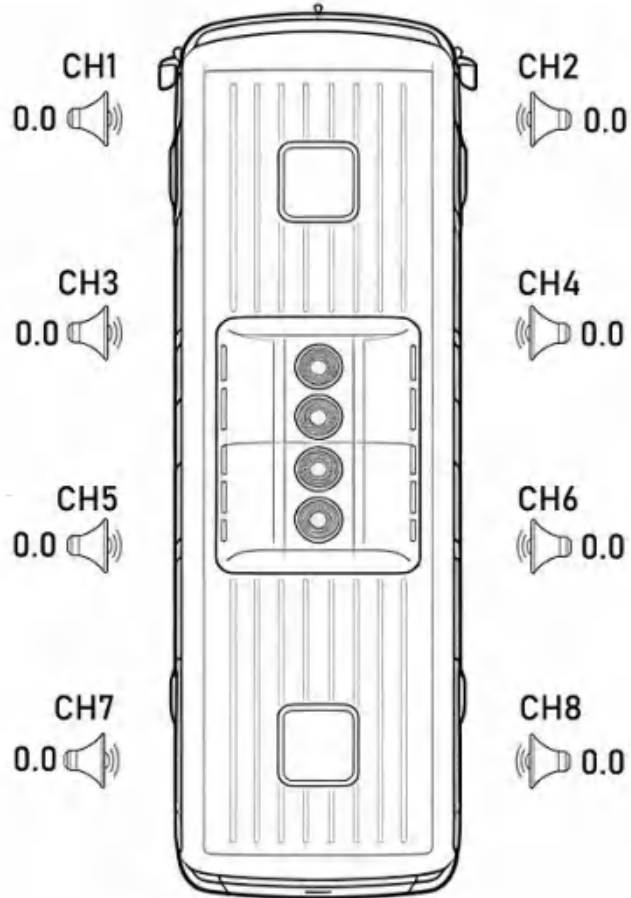
Player Series--CA136 Vehicle Smart DSP Amplifier

Main Functions of the DSP Power Amplifier

- The **DSP** power amplifier host adopts high-power digital power amplifier chips and DSP processing chips, enabling independent drive of a single speaker for each audio output channel on vehicles with a standard configuration of **8 speakers**.
- Tuning of the sound effect for each channel can be realized via **PC software and mobile APP**, which creates more possibilities for optimizing the vehicle's overall audio effect and enhancing the user's auditory experience.
- Supports USB music playback; built-in Bluetooth module enables Bluetooth music playback (Bluetooth call not supported).
- The amplifier host is integrated with a howling suppression algorithm, which effectively suppresses howling when the microphone is close to the speakers.
- Built-in vocal cancellation algorithm for basic karaoke function; supports small-signal audio input and output.
- Compatible with connection and operation with a wider range of external devices.
- Integrated with CAN communication, supporting the expansion of speed-dependent volume compensation and automatic volume compensation in air conditioning modes.
- Simultaneously supports 3 wired and 2 wireless microphones with multi-microphone simultaneous operation, better meeting the audio needs of drivers and passengers.



Player Series--CA136 Vehicle Smart DSP Amplifier



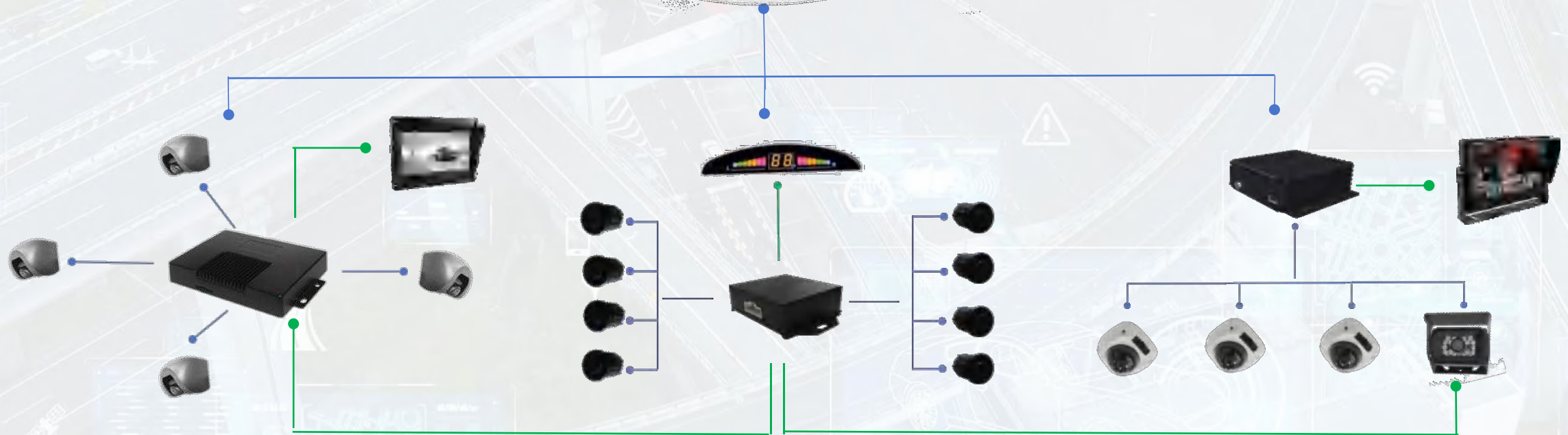
Application Cases



Series 03

Vehicle Safety- Assistance System

Vehicle Safety-Assistance System

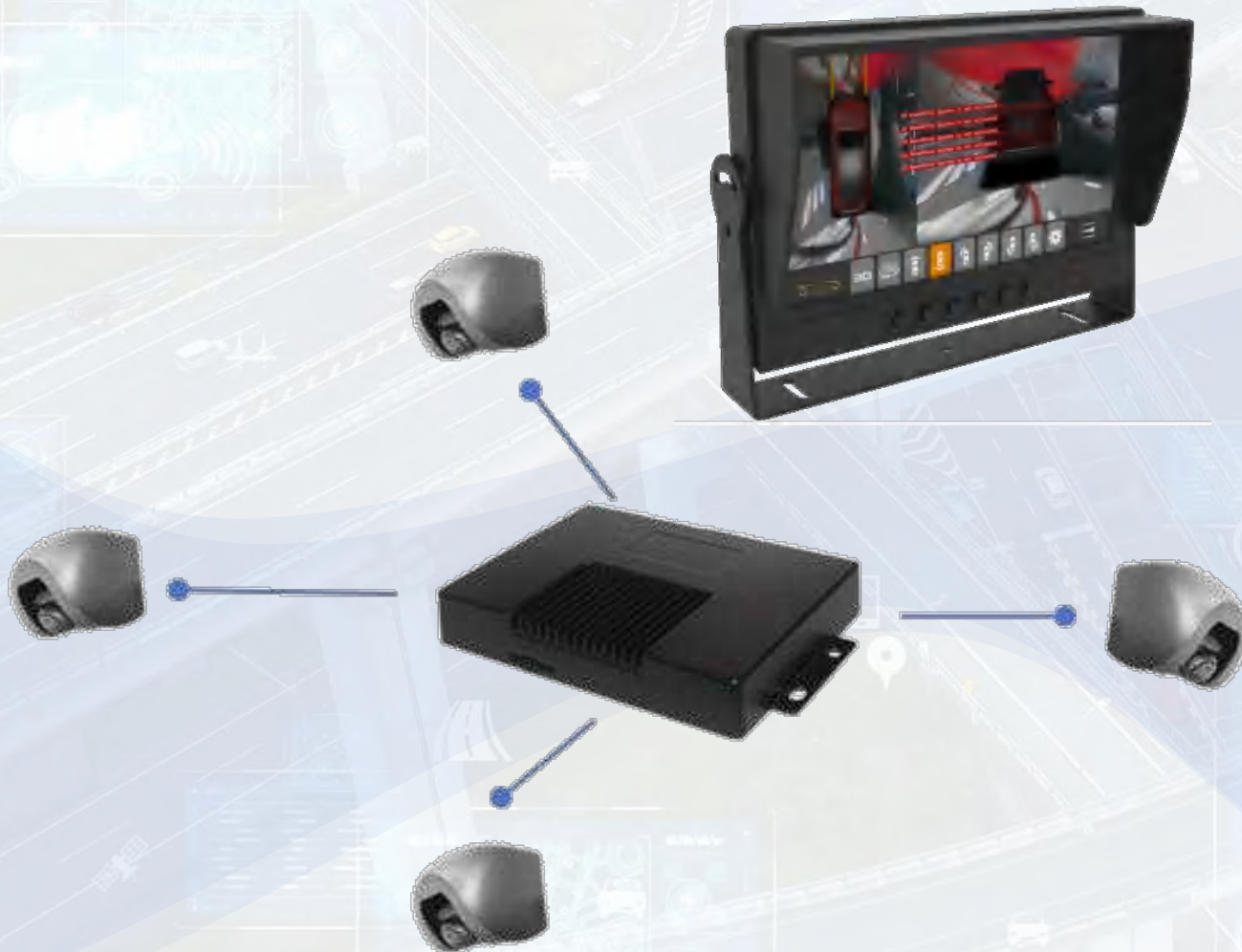


Panoramic View System

Rear View&Radar System

Surveillance System

Panoramic View System



- 4 (max 6) wide-angle high-definition cameras capture images
- Seamless stitching, 3D panoramic view
- Forced switch during reversing, dynamic trajectory line
- Two control methods: CAN and hardwiring, switchable perspectives
- Expandable radar and ADAS overlay functions
- Automotive-grade processing chip, reliable performance

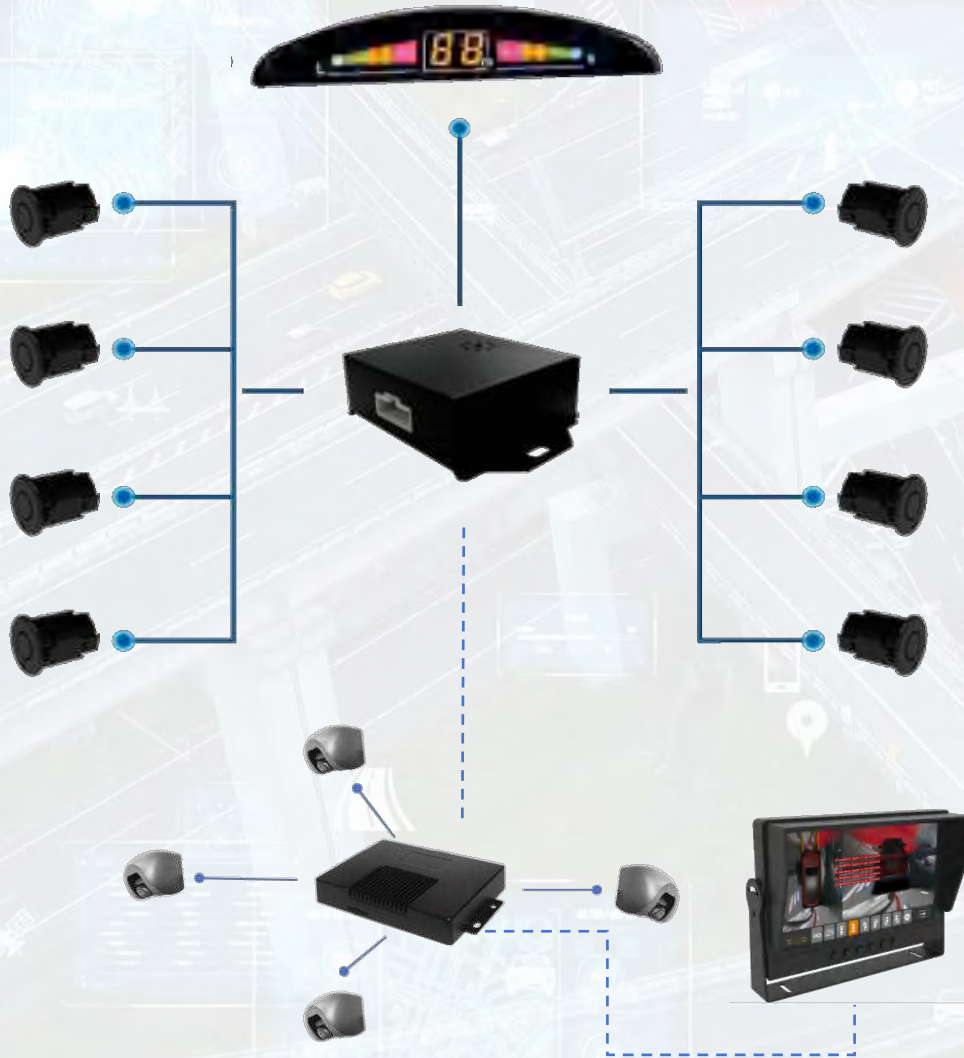
Application Cases

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Radar Detection System



- Digital signal transmission has strong anti-interference capability.
- The detection range is far, and it can trigger alarms in segments.
- The radar detectors has a high protection level.
- It can be expanded with 12 radar detectors.
- It can also be expanded with radar and ADAS overlay functions.
- It can be superimposed with 360-degree surround view system and reversing camera video.

Application Cases



Rear-view/Surveillance System

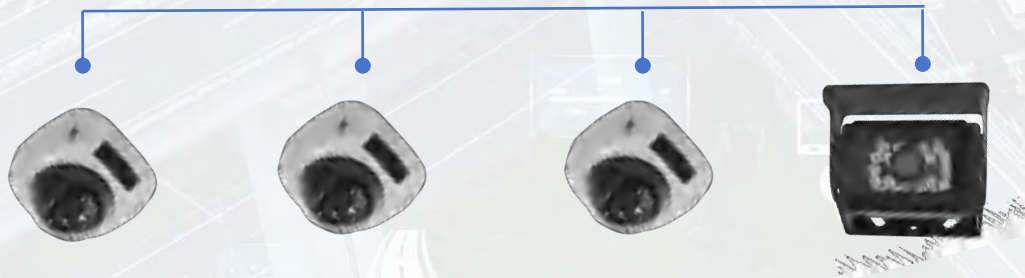


Rear-view/Surveillance System

7" Monitor
CM0779



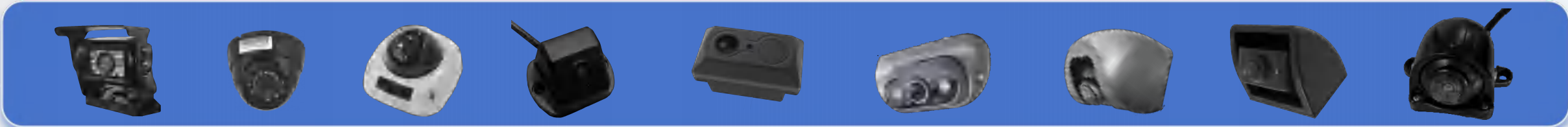
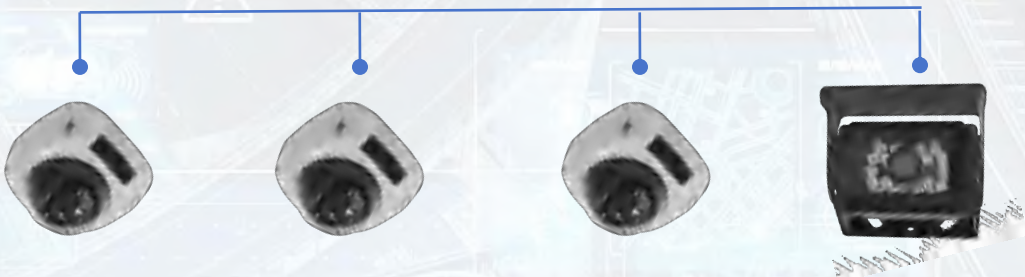
Cameras



7/10.1" Monitor
CM0736/CM1036



Cameras



**Series
04**

Accessories

Accessories

DC-DC Power



Antenna



USB Charger



Video Distributor



Radio Antenna



4G Antenna



Speaker



Wireless Mic



4 Channel Cams Controller



VGA Distributor



Spiral-line Mic



Goose-neck Mic



Accessories--Wire Harness

RCA Wire



BNC Wire



VGA Wire



HDMI Wire



YPbPr Wire



Vehicle Wire



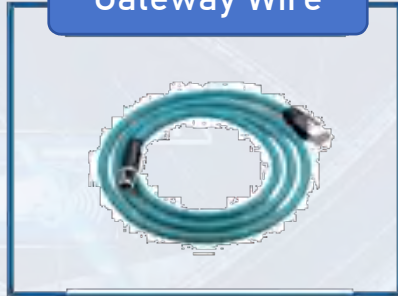
Radar Wire



Camera Wire



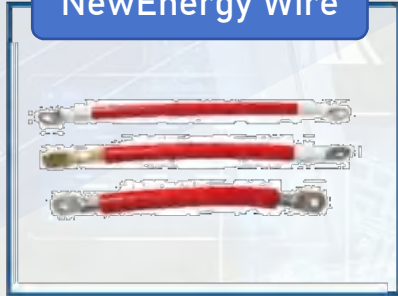
Gateway Wire



USB Wire



NewEnergy Wire



NewEnergy Wire



NewEnergy Wire



NewEnergy Wire



NewEnergy Wire



Thanks

