PJ
PJ-AUTO

Choose Certified Safety Solution, Choose PJ-AUTO !

16+YR
Automotive Industry Experience

High-Tech
National High-tech Enterprise

IATF 16949
Automotive Industry QMS Certification

CATALOGUE 2025

Leading Vehicle Camera Manufacturer & 360° AVM Supplier

360° AVM

AI Camera

H. Duty Camera

DVR Monitor

Wireless Solution
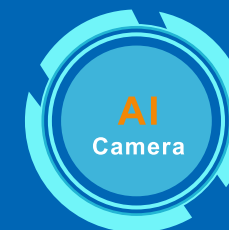
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RoHS FC CE E-MARK KC IP69K TELEC RED

* Product specifications may be subject to change. For the most up-to-date parameters, please consult our sales representative.

COMPANY PROFILE

16+YR
Automotive Industry Experience

High-Tech
National High-tech enterprise

16949
Automotive QMS Certification

60+
Product Patents

40+
International Certificates

150+
Project Experience

100+
Skilled Worker

3000+
Plant Area

ABOUT PJ-AUTO

PJ-AUTO is a leading manufacturer of vehicle cameras and a supplier of 360-degree around view systems (360° AVM) in the industry. Founded in 2009, we have organized and trained a professional team with senior engineering and solid management backgrounds, 30% of our staff have a university degree and over 40% have 10+ year automotive electronics industry experience. We are officially awarded as a "National High-Tech Enterprise" and certified with IATF16949:2016 quality management system. "Highest standards of quality and integrity" is the principle we hold in pursuit of our primary goal of "Customer success".

Our Mission
Eliminate blind spot hazards to create a safer road and workplace for the world.

Our Vision
Dedicating to safety field for at least 50 years to have an international brand strongly built, a talent team of industry experts cultivated, and a group of international partners become leaders in their local market.
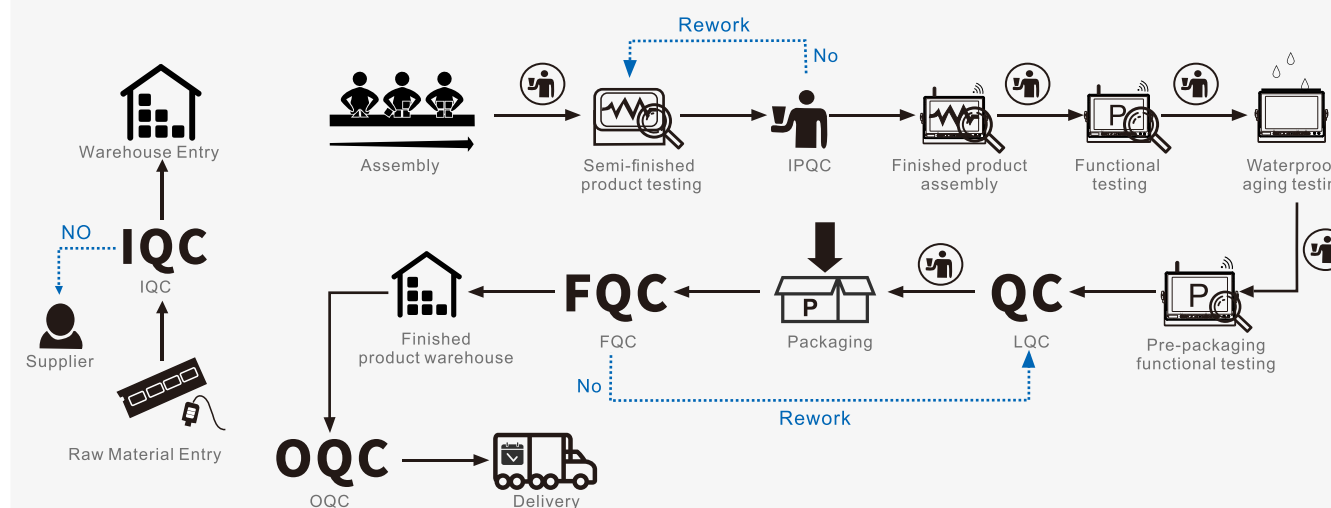
Core Values
- Stick to the right path
- Embrace innovation
- Strive for continuous improvement
- Adopt a long-term perspective
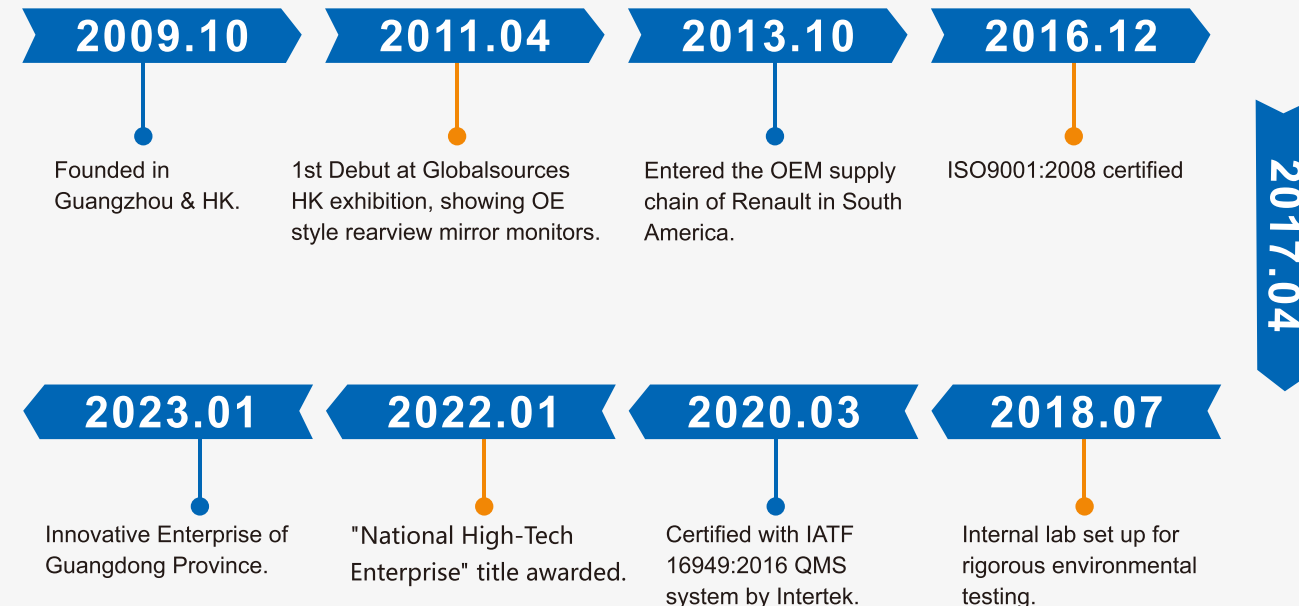- Ensure the fulfillment of our mission.

Business Philosophy
- Always customer first
- Focus on systematic solution
- Adopt international standards
- Be honest and strive for mutual benefits.

QUALITY CONTROL FLOW CHART

Warehouse Entry

NO

IQC
IQC

Supplier

Raw Material Entry

Assembly → Semi-finished product testing → IPQC → Finished product assembly → Functional testing → Waterproof/aging testing

Rework — No

OQC
OQC → Delivery

Finished product warehouse ← **FQC** FQC ← Packaging ← **QC** LQC ← Pre-packaging functional testing

No — Rework

MILESTONES

2009.10
Founded in Guangzhou & HK.

2011.04
1st Debut at Globalsources HK exhibition, showing OE style rearview mirror monitors.

2013.10
Entered the OEM supply chain of Renault in South America.

2016.12
ISO9001:2008 certified

2017.04

2023.01
Innovative Enterprise of Guangdong Province.

2022.01
"National High-Tech Enterprise" title awarded.

2020.03
Certified with IATF 16949:2016 QMS system by Intertek.

2018.07
Internal lab set up for rigorous environmental testing.

ENTERPRISE QUALIFICATION

16+ YEARS MANUFACTURING EXPERIENCE OF VEHICLE CAMERA MONITOR SYSTEMS

LICENSE AND QUALIFICATIONS

Business License   High-Tech Enterprise   Innovative Enterprise

IATF16949:2016   Intellectual Property   Trademark Registration
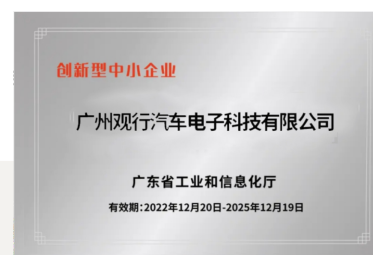
PRODUCT CERTIFICATES

IP69K   CE   E-MARK   FCC   RoHS   UKCA   RED   TELEC

PATENTS OF INVENTION AND UTILITY

PATENTS OF INDUSTRIAL DESIGN

*The above is only a portion of the certifications and patents. PJAUTO obtains 20+ certifications and 30+ patents every year.

CONTENT

360° AVM System Overview

PJ-AUTO offers a comprehensive range of 360° AVM systems designed to enhance safety and operational efficiency for commercial vehicles. These systems are with AI-powered detection, high-definition imaging, and rugged durability, providing real-time situational awareness, helping minimize accidents and optimize efficiency.

- ✓ AI-Powered Object Detection (Pedestrians, Vehicles)
- ✓ All-Weather Durability (up to IP69K)
- ✓ 4G Remote Monitoring & Fleet Integration
- ✓ Seamless Integration with ADAS & DMS

4G

4G AI-360AVM

Offering real-time remote monitoring with 4/8-channel inputs (4 panoramic + 4 optional DMS/ADAS/BSD feeds), ideal for oversized vehicles and fleet management. Its 4G connectivity enables live tracking while anti-theft alerts (including fuel theft prevention) enhance security.

LOCAL

LOCAL VERSION AI-360AVM

Standard AI-360AVM combines a 4-channel system with AI detection (pedestrians/vehicles/obstacles) through a dedicated control box, ensuring reliability for trucks and heavy machinery.

AI

INTEGRATED AI-360AVM

Merging the display and processor into one unit with full AI functionality (blind spot monitoring, object recognition) - perfect for compact cabins.

INTEGRATED 360AVM (None AI)

Providing core surround-view monitoring in a streamlined, host-free design.

Proven Applications Across Industries

Mining Trucks
Enhanced blind-spot visibility in hazardous terrains.

Public Transit Buses
Improved passenger safety and maneuverability in urban areas.

Concrete Mixers
Reduced collision risks in tight construction zones.

Rvs & Specialty Vehicles
Seamless navigation for large and complex vehicles.

Trailers
Eliminates blind spots for safer hitching and reversing..

School Buses
Ensures child safety during stops and tight maneuvers.

Vans/Trucks
Improves navigation and parking in crowded areas.

Marine Vessels
Reliable monitoring for docking and maritime operations.

***Contact us for a tailored 360° safety solution for your fleet!**

AI 360° AVM- Local Version

10.1''

360° AI DVR Box
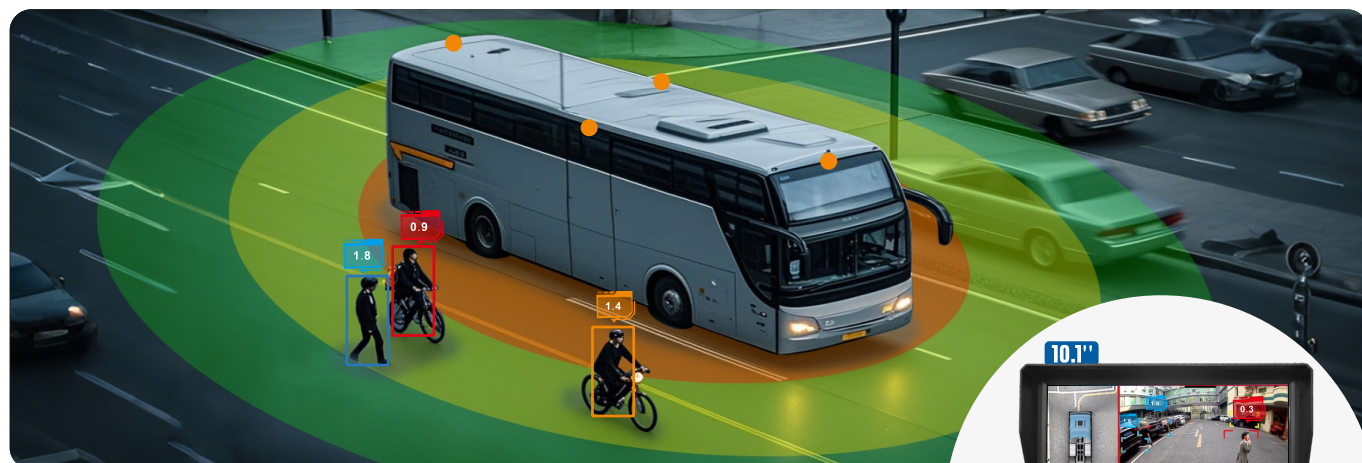
◉ AI-360AVM-C4

AI 360° Vision
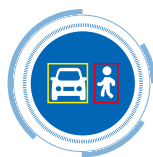
Pedestrian&
Vehicle Detection

1080P HDMI
Display

3D/2D
Switching

Video
Recording

Features:

- **360° AVM Imaging:**
  Provides a seamless, all-around view with no blind spots..

- **High-Definition Input:**
  Supports 4-CH 1080P video input for crystal-clear visuals.

- **Large IPS Display:**
  10.1-inch wide screen with 1024×600 ultra-HD resolution for sharp and vivid imaging.

- **Smart Warning Expansion:**
  Compatible with radar sensors and strobe alarms for enhanced safety alerts.

- **High-Capacity Storage:**
  Includes 512GB SD card storage, expandable up to 2TB HDD/SSD for extended recording.

Product Parameters	
Version	4-CH AI 360AVM, Local
Video input	4-CH
Video output	HDMI / VGA / AHD / CVBS
Video Compression Format	H264/265
Stogare Capacity	SD (8-256GB), support SSD up to 2TB
Power Supply	12-36V
Display	10.1" HDMI
Resolution	1024*600
Camera Resolution	1080P, 25FPS
FOV	220°
Mounting Vehicle Length	up to 19M

Options

X4

Radar
◉ PJ-RD

Flash alarm
◉ PJ-FLA

Flash alarm
◉ PJ-FLA1

*Non-AI version available

Options

360° Cameras

Multiple Selection Model:

*Customizable UI for other vehicle

AI 360° AVM-4G Version
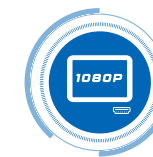

cloud
backend

API

(4G+GPS+360°+BSD+ADAS)

AI 360° Vision

4G Module

Pedestrian&
Vehicle Detection

1080P HDMI
Display

Proprietary platform

3D/2D
Switching

Features:

Integrates 4-camera seamless stitching, AI real-time pedestrian/vehicle detection (voice alerts), 4G remote monitoring/cloud storage,1080P HDMI display, optional 16-radar blind spot monitoring, in-cabin/external audible & visual alarms, and smart fleet management support.

10.1''

◉ AI-360AVM-N4 (4-CH)

14.5''

360° AI DVR Box

X4
360 Camera

X4

Vehicles go straight

Vehicle turning

◉ AI-360AVM-N8 (8-CH)

Product Parameters	
Version	4G Version, 4-CH AI 360AVM
Video input	4-CH
Video output	HDMI / VGA / AHD / CVBS
Video Compression Format	H264/265
Stogare Capacity	SD (8-256GB)/support SSD up to 2TB
Power Supply	12-36V
Display	10.1"HDMI
Resolution	1024*600
Camera Resolution	1080P, 25FPS
FOV	220°
Mounting Vehicle Length	up to 19M

Product Parameters	
Version	4G version, 8-CH AI 360AVM
Video input	8CH
Extended Features	ADAS, DMS, BSD
Video Compression Format	HDMI / VGA / AHD / CVBS
Stogare Capacity	SD (8-256GB)/support SSD up to 2TB
Power Supply	12-36V
Display	14.5"HDMI
Resolution	2560*720
Camera Resolution	1080P, 25FPS
FOV	220°
Mounting Vehicle Length	up to 19M

Integrated 360° AVM- AI

1.2
0.6

10.1"

AI-360AVM-M9

No Control Box | AI 360° Vision | Pedestrian& Vehicle Detection | High-definition Touch | One-click Screen Stitching
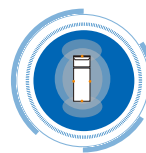
Features:

• All-in-One Design:
No external control box required—integrated AI-powered 360° surround-view system for a cleaner setup.

• Smart AI Detection:
Recognizes pedestrians, non-motorized vehicles, and other vehicles for enhanced driving safety.

• HD Touchscreen Control:
Features a 10.1-inch touchscreen with one-click stitching and quick calibration for ease of use.

• Built-in Recording:
Supports 16GB–512GB SD cards for direct recording without extra devices.

Product Parameters	
Version	Integrated AI 360AVM, Control box free
Video input	4CH
Display	10.1" HDMI (9" optional)
Resolution	1024*600
Camera Resolution	1080P, 25FPS
FOV	220°
Video Compression Format	H264/265
Stogare Capacity	SD (16-512GB)
Power Supply	12-36V
Mounting Vehicle Length	up to 15M

## Integrated 360° AVM (None AI)

10.1"

360AVM-M9
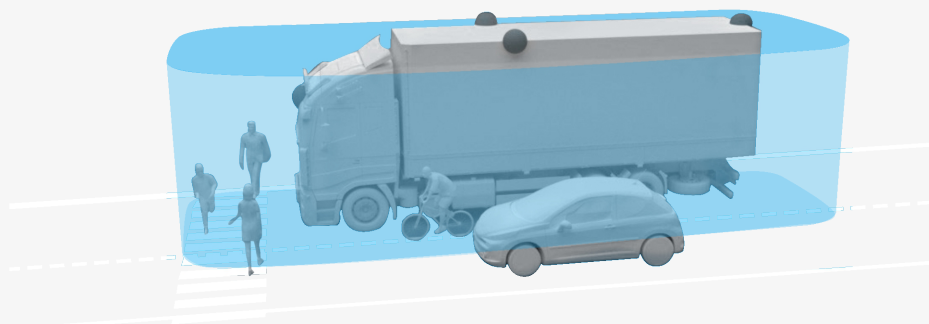
AI BSD CAMERA

PJ-AUTO's AI Pedestrian Warning Camera System integrates advanced AI detection technology with real-time alert mechanisms to enhance safety for both pedestrians and drivers. Designed for commercial vehicles, this system combines high-precision detection, customizable warning zones, and multi-format output options to minimize accidents and improve situational awareness.

✔ **Dual Alerts - Visual/audio warnings**
✔ **AI-Powered Object Detection (Pedestrians, Vehicles)**
✔ **Custom Zones - Adjust detection areas**
✔ **Multi-Format Output - AHD / CVBS compatibility**

Pedestrian warning AI Camera

DI DI DI
DI DI DI
!
DI DI DI
Flicker
DI DI DI

PJ-221AI

Human & car detection | Built-in flickering light | Adjustable alarm zone | AI Chip
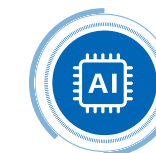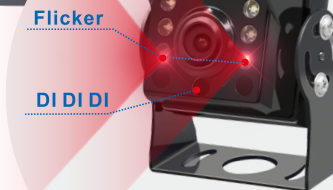
Features:

• AI Detection:
Powerful AI sensor and big-data algorithm ensure a detection rate above 90%, accurately detecting pedestrians and vehicles while providing real-time risk alerts.

• Pedestians Warning :
Built-in flickering light and buzzer to alert pedestrians upon detecting cars and humans.

• Driver Warning:
Flickering light and flashing buzzer to alert drivers upon detecting cars & humans.

• Adjustable settings:
Adjustable settings for warning zone, car and human detection, and output frame rate etc. via keyboard.

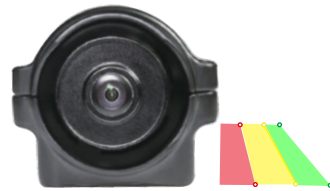| Product Parameters	
Ai Camera	720P W/ AI detection
Computing Power	0.5T
Detection Object	Human & cars
Detect Distance	around 12m
Alarm Method	beep sound & voice
Video Signal	AHD
Frame Rate	25fps
FOV	120°H
Protection Level	IP69K
Power Supply	12V (24V optional)
Working Temp.	-20~70° C

AI BSD Camera(Configurable Zone)

Rear

Side

◉ PJ-202AI

◉ PJ-223AI

● Detection Zone Adjustment,
● Human or Vehicle Selection

Alarm zone adjustable by App(wireless)
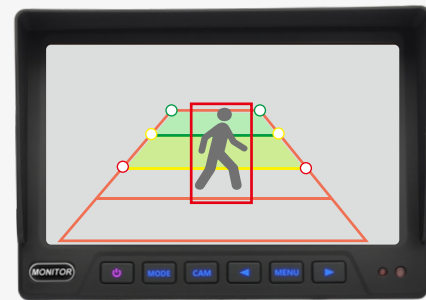
Resolution 1080P
Framerate 30FPS
Mirror
Flip
OK

Phone

Alarm zone adjustable by keyboard (wired)
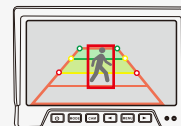
Monitor

AI BSD Camera COMBO

By combining big data-trained AI, active hazard alerts, and user-friendly controls, this system delivers a proactive safety solution tailored for commercial vehicles—minimizing accidents, improving compliance, and protecting assets.

AI Camera setting by Monitor

MONITOR   MODE   CAM   MENU

◉ PJ-213AI-CB

Human & car detection

Audible-Visual Alarm

Adjustable alarm zone
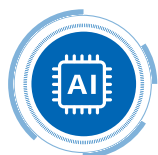
AI Chip

Features:

● **Advanced AI Detection & Warning:**
Utilizes a high-performance AI chip trained on vast datasets to ensure accuracy in detecting cars & human.

● **Active Alarm System:**
Real-Time Alerts: Instant visual and audible warnings to alert drivers / pedestrians of nearby hazards.

● **Customized Alarm:**
Customizable Features: Detection Zone Adjustment, human & car detection setting, output frame rate operational.

Product Parameters	
Ai Camera	720P W/ AI detection
Computing Power	0.5T
Detection Object	Human & cars
Detect Distance	around 12m
Alarm Method	internal buzzer & external alarm
Fov	150°H
Protection Level	IP69K
Monitor	7" IPS
Resolution	1024*600
Video Input	2-CH
Power Supply	12-36V

AI Dashcam

1080P

ADAS

DMS

AI   4G   GPS   RFID   4CH

Support extra 2 camera

Camera1   Camera2

Setting parameters

Track playback

Real time monitoring

Function:

● **Advanced Safety Algorithms:**
Integrated ADAS (FCW+LDW+HMW+PCW) and DMS for collision/drowsiness alerts.

● **Smart Connectivity & Navigation:**
Built-in 4G, GPS, Wi-Fi; supports external GPS for real-time tracking.

● **High-Capacity Recording:**
512GB SD card storage (H.264/H.265 video format) with 3-axis G-sensor for event detection.

● **Multi-Channel Camera Support:**
Standard 3CH surveillance, support extended to 4CH.

● **Robust & Versatile Design:**
Wide voltage (9-36V) and temperature range (-20°C to +70°C); includes RS232 port for expandable functions.

Product Parameters	
Support	WIFI/3/4G
ADAS	FCW+LDW+HMW+PCW
Camera	3ch/4ch Optional
GPS	Support External GPS
Video format	H.264/H.265
G Sensor	Built-in 3-axis acceleration sensor
TF card	Supports up to 512GB TF cards
Voltage	9~36V
Temperature	-20℃ to +70℃

AI Intelligent MDVR System

M-DVR setting by Monitor

AI MDVR

HDD+ADAS+DMS+BSD+4G+GPS

HDD-808

DMS

Phonecalls (> 95%)	Smoke (> 95%)	Face detection (> 95%)
Absent driver (> 99%)	Distraction (> 98%)	Fatigue (> 98%)

ADAS

FCWS	LDWS	Pedestrian detection

BSD

Pedestrian detection	Vehicle detection

Function:

• **High-Performance Video Processing:**
Linux processor with H.265/H.264 decoding for efficient storage and bandwidth, providing clear 1080P video recording.

• **Remote Connectivity & AI Features:**
Includes 3G/4G/WiFi for mobile/PC access (live view, playback, OTA updates) and features GPS/RTX for tracking. AI algorithms (ADAS/DMS/BSD) are standard to enhance monitoring capabilities.

• **Multi-Channel HD Input & Compatibility:**
Supports 8-channel 1080P AHD inputs and is compatible with 960P, 720P, CVBS, and other formats for versatile surveillance integration.

• **Advanced Storage & Data Protection:**
Includes media+amplifier zone storage technology to avoid disk issues and data loss, supporting up to 4TB SATA HDD and 1TB SD card for large storage.

Product Parameters	
Processor	Linux
Memory	8GB DDR4
ADAS Algorithm	Lane departure, pedestrians, vehicle distance
DSM Algorithm	Driver fatigue, smoking, phone use, obstructions
BSD Algorithm	Pedestrian detection in left & right blind spots
Video Input	8 channels 1080P (backward compatible), CVBS input
Video Output	HDMI x1, VGA x1, CVBS x1 (RCA + M12 1.0Vp-p 75Ω)
Video Compression Format	H.264/H.265
Preview Function	Single/2/4/6/8 Split + Manual/Alarm Full-Screen
Recording Resolution	Selectable: 1080P, 720P, D1
Recording Quality	Selectable: Ordinary, Standard (default), HD, UHD (4 levels)
Recording Mode	Automatic on power-up, scheduled, alarm recording
Power Supply	12-36V
Working Temp	-30°C ~ +70°C
Display	10.1" HDMI monitor

Specialized Cameras

Auto Heating	Fisheye Correction	1080/720P	RGB IR	IP69K Waterproof	12/24V

RGB IR Camera

PJ-228R

RGB IR	Full-Color Night Vision	WDR

Features:

• **Full-Color Night Vision Technology:**
Captures more light information in low-light environments to deliver realistic color images.

• **No IR Cut Required for Night Vision Switching:**
Utilizes RGB IR technology to switch between day and night modes without an IR cut filter, maintaining image clarity and enhancing product stability and durability. Ideal for automotive applications or high-vibration environments.

• **Wide Dynamic Range (WDR):**
Automatically balances lighting to optimize details in overexposed or shadowed areas.

• **Enhanced Image Clarity:**
Infrared light penetrates obstacles like smoke and fog, improving image sharpness and contrast.
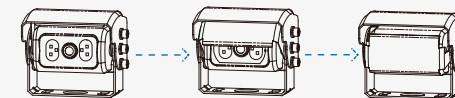
Normal IR Camera | Normal IR Camera (malfunction IR light) | PJ's RGB IR w/ WDR

VS
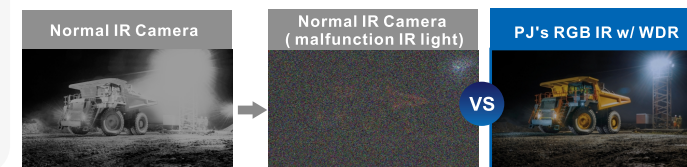
Auto Shutter Camera

PJ-238　　**PJ-238B**

Features:

Auto Shutter	IP69K Waterproof	WDR	Wide Voltage

• **Smart Triggered Start/Stop:**
Automatically powers on/off with reverse gear, synchronizes sunshade opening/closing, exposing the lens only during operation to reduce energy consumption and standby wear.
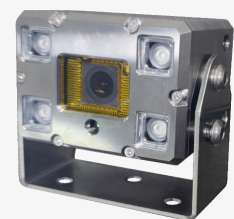
• **Instant Activation Without Delay:**
Activates instantly upon gear shift, transmitting HD footage to the screen in real time for safe reversing.

• **Active Protection Mechanism:**
Fully seals the lens when not in reverse, blocking dirt, rain, and snow to extend device lifespan.

Extreme Weather Proof Camera

◉ PJ-255

Fast Auto Heating

Fire Prevention

Weather Proof

Features:

- **Efficient Defrosting & Anti-Fog:**
  Built-in heating elements for fast auto heating lens while frost/ice/fog buildup, ensuring clear imaging in low-temperature environments.

- **All-Weather Durability:**
  IP69K-rated waterproof, dustproof, and shockproof design, adaptable to harsh conditions like rain, snow, and dust storms.

- **Vibration-Resistant Design:**
  Built-in shock absorption technology ensures stable operation during vehicle bumps or vibrations.

- **Temperature Resistance:**
  Energy-efficient heating system extends battery life/durability while minimizing energy use.

Before Heating

After Heating

Automatic Heating

HD Stainless Steel Cameras

◉ PJ-251B   ◉ PJ-251C

◉ PJ-253   ◉ PJ-244   ◉ PJ-229

Features:

- **Strong Corrosion Resistance:**
  Stainless steel material has excellent corrosion resistance, capable of long-term use in harsh environments such as humidity and salt spray without rusting.

- **High Durability:**
  The stainless steel structure provides high mechanical strength and durability,able to withstand vibrations and impacts that may occur during vehicle operation.

- **Weather Resistance:**
  Designed to withstand extreme weather conditions, including rain, snow etc, ensuring reliable operation in any situation.

- **Temperature Resistance:**
  Capable of operating in extreme temperature conditions; the camera maintains good performance in both high and low-temperature environments.

Suitable For The Industry:

Mine

Garbage Truck

Tanker truck

Boat

HD 180° SW Camera

◉ PJ-251

Super Wide Angle

Fisheye Correction

Corrosion Resistance

Features:

- **Professional Wide-Angle Distortion-Free:**
  Eliminates vignetting, blind spots, and fisheye effects, restoring true-to-life visuals to enhance driving safety.

- **Vibration-Resistant Structure:**
  High stability optimized for automotive and high-vibration scenarios.

- **HD Night Vision**
  Captures clear images and key details even in low-light conditions.

- **All-weather durable design:**
  Made with a stainless steel casing, featuring fireproof and corrosion-resistant properties, capable of withstanding various extreme environments.

Other SW Cameras

◉ SW-254   ◉ SW-228   ◉ SW-216S   ◉ SW-213B

- 180° Ultra-Wide Angle View
- W/ Professional Fisheye Correction
- Wide Voltage

4MP 180° SW Camera

180°

75°   120°

Features:

- **4MP Ultra-HD Resolution:**
  Delivers crisp 2560×1440 pixel imaging for critical scene capture, even at high speeds.

- **180° Ultra-Wide Angle with Zero Distortion:**
  Advanced optical correction eliminates fisheye effects and blind spots, providing full panoramic coverage for safer lane changes, reversing, and traffic monitoring.

- **Superior Low-Light Performance**
  Equipped with WDR (Wide Dynamic Range), and starlight sensor technology to ensure clear visuals in dark environments or harsh backlight conditions..

Brake Light Cameras

Brake light camera use for **JAC**

◉ PJ-237-22

Mercedes Sprinter / VW Crafter brake light camera use for 2007-2019

◉ PJ-237-01

FIAT Ducato brake light camera use for late 2006-2017 3 gen, Peugeot Boxer, Citroen Jumper,etc.

◉ PJ-237-02

GM Express & Chevy Savana cargo VAN Camera

◉ PJ-237-03

TVI Cameras

TVI (Transport Video Interface) cameras provide a cost-effective solution for upgrading older analog systems while delivering high-definition video over existing coaxial cables. They are ideal for long-distance transmission and offer hassle-free installation for commercial vehicles.

Features:

- **Zero-Latency Monitoring:**
  Provides real-time video feed, essential for applications such as reversing and parking assistance.

- **Long-Distance Transmission**:
  Transmit video signals up to 500 meters without quality loss, perfect for long vehicles like buses and trailers
  Perfect combination with 180° super wide angle FOV.

LVDS Cameras

LVDS (Low Voltage Differential Signaling) cameras are designed for high-performance video transmission in harsh environments.

Features:

- **High Resistance to Interference :**
  Employs differential signaling to minimize electromagnetic interference, ensuring stable video quality in complex electronic environments.

- **Real-Time Lossless Video Transmission**:
  Supports full HD video transmission (720P/1080P) with minimal latency.

- **Extreme Environment Adaptability** :
  Operates effectively in temperatures ranging from -40°C to 85°C, making it ideal for long-term outdoor use.

LVDS camera project: Fiat, Toyota, Honda…

IP Cameras

IPC (Internet Protocol Camera) systems utilize advanced network technology for superior image quality and smart features.
They are perfect for fleet management, driver behavior monitoring, and providing real-time updates through cloud connectivity.

Features:

- **Advanced Network Technology & Real-Time Connectivity :**
  Supports 4G/5G, Wi-Fi, and cloud integration for seamless live streaming, instant data transmission, and over-the-air (OTA) firmware updates.

- **Durability for Harsh Environments:**
  Built with IP69K-rated waterproof/dustproof housings, vibration resistance, for reliability in extreme weather and road conditions.

AHD/CVBS Camera

12/24V   IP69K   LED   RoHS   FC   CE   E-MARK

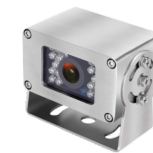|				
PJ-208N PJ-208NW Mounting:50*26mm	NEW MODEL PJ-213B 50*30mm	PJ-202 73*26*mm	SW-228 91*29mm	PJ-202B 73*26mm
PJ-201B 74*26*77mmH	PJ-224 85*30*105mmH	PJ-247B 85*30*105mmH	PJ-223B 54*18*65mmH	PJ-211A 54*18*65mmH
SIDE VIEW CAMERA PJ-212S-W 58*80*45mmH	SIDE VIEW CAMERA PJ-212S-Y 58*80*45mmH	STRAIGHT SCREW INSTALLATION PJ-212SN 58*80*45mmH	MIRROR WING CAMERA (MINI SIZE) PJ-225B	WINDOW GLASS MOUNT DASH CAMERA PJ-241 70*30*100mmH
MINI SIZE DOME CAMERA PJ-225 Dia: 44mm	WIDE ANGLE IR DOME CAMERA PJ-219 Dia: 69mm	ANTI-CRACK DOME CAMERA PJ-230 100*100*63mmH	DUAL LENS CAMERA PJ-209B 99*34*90mmH	DUAL LENS FLYFISH CAMERA PJ-210A 135*20*210mmH
PJ-245 59*45*39mmH	PJ-249	WORK LIGHT CAMERA PJ-240 40*22*120mmH	PJ-248 58*60*79mmH	EXPLOSION-PROOF CAMERA PJ-229 92*41*110mmH
STAINLESS STEEL CAMERA PJ-244	PJ-253	FAST AUTO HEATING PJ-255	PJ-256	PJ-257

HD Rear view system

Smart AI Blind Spot Detection

2-CH

◉ PJ-702BSD

5-CH

10.57
2024-11-19

BSD

◉ PJ-1010BSD-D

Features:

• **AI-Powered Dual Detection:**
Accurately identifies humans & cars with 0.5T/CH AI computing power (up to ~15M distance).

• **2-4ch Detection:**
Support 2-4channel simultaneous detection of pedestrians and/or vehicles.

• **Hybrid Alarms + Local Storage:**
Supports internal/external alert triggers and 2-CH HD recording (up to 256GB SD).

Features:

• **Multi-Channel AI Dual Monitoring:**
4-CH AI BSD + 1-CH DMS with integrated detection for humans, cars, and driver behavior.

• **10.1" IPS High-Resolution Display:**
Large 10.1" screen (1024x600) for clear real-time surveillance and alerts..

• **Hybrid Alarms + Local Storage:**
Supports internal/external alert triggers and 5-CH HD recording (up to 256GB SD).

Product Parameters	
Detect Object	human & car
AI Computing Power	0.5T for each
Detection Distance	around 15M
Detection Channel	2-CH (4-CH available)
Alarm method	internal & external
Monitor	7" IPS, 1024*600
Video input	2CH (4-CH available)
Power supply	12-36V
Recording	2-CH, up to 256G, SD card
Camera	720P HD
Fov	90°H, 120°D
Protection level	IP69K

Product Parameters	
Detect Object	human & car
AI Computing Power	0.5T for each
Detection Distance	around 10M
Detection Channel	4-CH of AI BSD, 1-CH of DMS
Alarm method	internal & external
Monitor	10.1" IPS, 1024*600
Video input	4-CH Camrea +1 CH DMS
Power supply	12-36V
Recording	5-CH, up to 256G, SD card
Camera	720P HD
Fov	120°H, 160°D
Protection level	IP69K

Other AI BSD Monitors

Flashing Light

Extendable options:
Sensor

◉ PJ-700BSD (7")
(4CH)

◉ PJ-1010BSD(10.1")
(2/4CH)

◉ PJ-1011BSD(10.1")
(4CH)

◉ PJ-FL01
(Optional)

◉ PJ-FL02
(Optional)

◉ PJ-BSR-TRK

HD Rear View System

◉ PJ-702RS

Full HD
1080P

IPS

12-36V

Full 1080P

IPS Full View

Auto Brightness Adjustment

12-36V

Features:

• 7" IPS full-view LCD screen

• 720P HD cameras (1080P optional)

• Built-in light sensor for auto brightness adjustment

• Integrated sunshade for enhanced visibility

• Wide voltage range (DC12-36v) | industrial-Grade PCB with protections: over/under voltage, Reverse polarity, static, surge

Product Parameters	
Monitor	7" /9" /10.1"
Resolution	1024*600
Brightness	500cd/m²
Video input	2-CH
Power supply	12-36V
Output volt	12V
Camera	720P HD
Fov	90°H, 120°D
Protection level	IP69K

4-CH DVR Monitor System

◉ PJ-702QRS

X4

Full HD
1080P

IPS

REC

4-CH

Full 1080P

IPS Full View

Video Recording

4-CH

Features:

• 7" IPS full-view LCD screen

• Quad HD Input,4×720P cameras standard (upgrade to 1080P optional)

• Smart multi-screen monitoring,quad-screen real-time display,supports 256GB SD card for continuous recording

• Industrial-grade protection,12-36V wide voltage input, quadruple circuit protection (over-voltage/under-voltage/reverse polarity/surge)

Product Parameters	
Monitor	7"IPS
Resolution	1024*600
Video input	4-CH
Power supply	12-36V
Recording	YES, 4-CH
Display mode	Dual / quad split view & full view
Storage	Up to 256G, SD card
Output volt	12V
Camera	720P HD
Fov	120°H, 160°D
Protection level	IP69K

6-CH DVR Monitor System

◉ PJ-1012QRS

Full 1080P | IPS Full View | Video Recording | 4-6CH
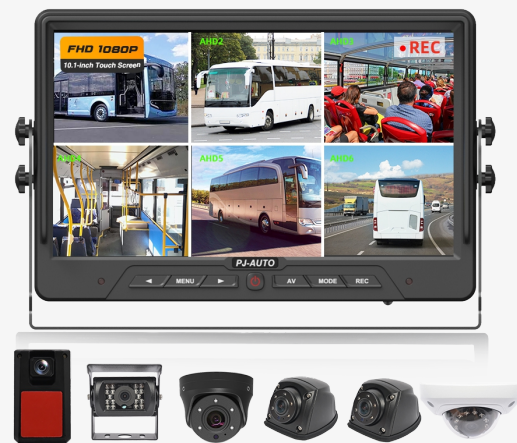
Features:

• 10.1" IPS touch screen, adaptive brightness control via light sensor

• 6-Channel control, multi-layout split-screen (2/4/6 views)

• Built-in recording,256GB SD card storage capacity

• Industrial-grade robustness,12-36V wide voltage, 5-in-1 protection (over/under-voltage, reverse polarity, static, surge)
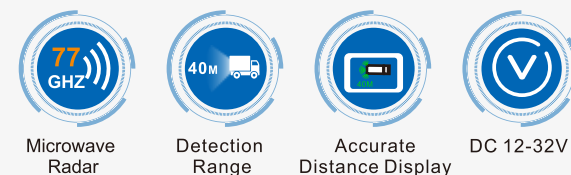
Product Parameters	
Monitor	10.1"IPS
Resolution	1024*600
Video input	6-CH
Power supply	12-36V
Recording	YES, 6-CH
Display mode	Split view & full view
Storage	Up to 256G, SD card
Output volt	12V
Camera	720P HD
Fov	90°-160°
Protection level	IP69K

F&S View A-Pillar Monitor Combo

◉ CMV-158B

AI Chip | 2CH Detection | Full 1080P | Pedestrian Detection
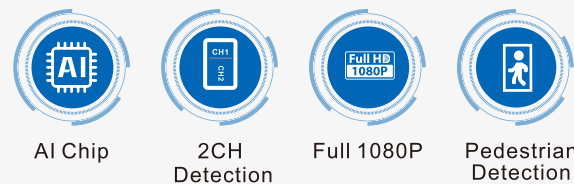
Features:

• **Front & Side Blind Spot Camera System:**
Combines AI-based pedestrian and vehicle detection for comprehensive monitoring of both front and side blind spots. This integrated system ensures real-time alerts for pedestrians and vehicles, enhancing safety through seamless awareness.

• **1080P Full HD Resolution:**
Delivers high-definition video output for clear visibility.

• **Adjustable Detection & Alert Range:**
Supports customization of monitoring zones to meet specific installation and application requirements.

Product Parameters	
AI Computing Power	0.5T for each
Detect Object	human & car
Detection Distance	around 15M
Alarm method	internal & external
Display	12"
Resolution	1024*600
Video input	2CH
Power supply	12-36V
Recording	2-CH, up to 256GB (TF card)
Camera	720P HD
Fov	150°H, 180°D
Protection level	IP69K

16

Microwave Radar Monitor Combo

◉ PJ-702MWR

40M

Microwave Radar | Detection Range | Accurate Distance Display | DC 12-32V

Features:

• **Long-Range Radar:**
77GHz radar detects 0.3-40m, 3-level sensitivity, real-time alerts.

• **Integrated Display:**
Combines radar + video, connects 4 sensors, no host needed.

• **Smart Reversing:**
Auto rearview on reverse, silent display while driving, voice alerts for obstacles.

• **Multi-Scene Use:**
Vehicle/fixed modes, programmable alarms, 3-channel AHD input (CVBS/HD).
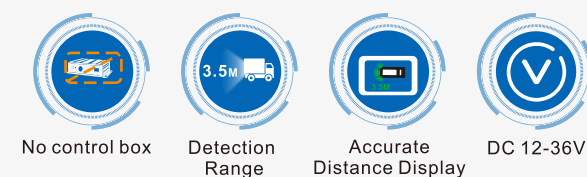
Product Parameters	
Monitor	7"IPS
Resolution	1024*600
Power supply	12-36V
Sensor type	Microwave Radar, 1pcs
Detection Range	0.3-40m
Display method	overlay to monitor
Output volt	12V
Camera	720P HD
Fov	90°H, 120°D
Protection level	IP69K

Ultrasonic Monitor Combo

◉ PJ-702BSR

3.5M

No control box | Detection Range | Accurate Distance Display | DC 12-36V

Features:

• **Digital Radar Integration:**
Radar signals and video overlay, no host required.

• **7-inch HD Display:**
Real-time display of camera and radar images.

• **0.3-3.5 m Alarm Distance:**
Range of 0.3-3.5 meters, suitable for different parking modes.

• **Accurate Distance Display:**
Real-time display of obstacle distance.

• **Wide Voltage Support:**
DC 12-36V, compatible with various vehicles.

Product Parameters	
Monitor	7"IPS
Resolution	1024*600
Power supply	12-36V
Sensor type	ultra sonic, 4pcs
Detection Range	0.3-3.5m
Display method	overlay to monitor
Output volt	12V
Camera	720P HD
Fov	90°H, 120°D
Protection level	IP69K

17

HD
MONITOR

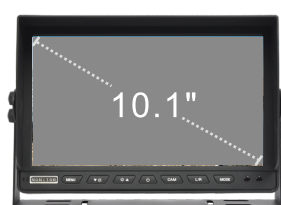|					
1080P 720P CVBS	TVS	60V 3A	EMC	DC12-36V	IPS
Full Compatibility	Anti-surge	Anti-pulse	Emc Regulation Compliant	Wide Voltage	IPS Full View

1080P AHD Monitors (5" ~ 10.1")

5"
7"
7" Touch Button
7" Single Button
7" Waterproof

⦿ PJ-500HD ⦿ PJ-702HD ⦿ PJ-714HD ⦿ PJ-715HD ⦿ PJ-700WPH

9"
10.1"
10.1"
10.1" Waterproof
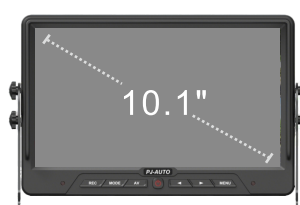
⦿ PJ-910HD ⦿ PJ-1010HD ⦿ PJ-1012 ⦿ PJ-1010WPH

1080P DVR Monitors (7"~11.6")

REC CH1 CH2 CH3 CH4
REC CH1 CH2 CH3 CH4
REC CH1 CH2 CH3 CH4
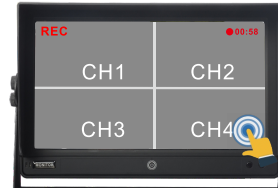REC CH1 CH2 CH3 CH4
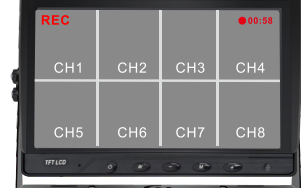REC CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8

⦿ PJ-702HDDV ⦿ PJ-702HQDV ⦿ PJ-1012TQDV ⦿ PJ-1013TQDV ⦿ PJ-1210HQDV

Features:

• 5-12" IPS full view display with HD resolution (720p/1080p)

• Full compatibility with diverse camera signal in the market (720P/1080P/ CVBS)

• EMC compliance, electromagnetic compatibility certified, minimizing interference even with high-resolution video transmission

• Protects against voltage spikes, ensuring stable performance in harsh electrical environments.

• Available in single-screen mode, DVR-integrated split-screen view, and IP67 waterproof variants for diverse operational demands

SPECIFICATIONS

Lcd Size/type	5"/7"/9"/10.1"/12"IPS
Brightness	500+ cd/m²
Resolution	1024RGB(H)*600(V)
Camera Input	2-8CH
Camera Signal	1080P / 720P/CVBS mixed connection ✓
Audio	Optional
Display Mode	Full view image
Auto Brightness Control	✔
Recording Version	2-8CH seperate
Sd Storage	8GB ~ 256GB
Compression Coding	H.264/H.265
Recording Resolution	1080P/720P/480P
Power Supply	12-36V
Stable Working Temp	-20°C-70°C
Connector	4PIN Aviation
Bracket	U shape (multiple optional)

VGA Monitors

7"
9"

⦿ PJ-702VG ⦿ PJ-910VG

Product Parameters

LCD Size/Type	7¨/9¨ IPS
Brightness	500+ cd/m²
Resolution	1024RGB(H)*600(V)
Camera input	3-CH
Camera Signal	VGA/CVBS
Audio	Optional
Display mode	Full view image
Auto brightness control	✔
Power Supply	12-36V
Stable Working temp	-20°C-70°C

HDMI Monitors

7"
10.1"

⦿ PJ-702HM ⦿ PJ-1010HM

Product Parameters

LCD Size/Type	7¨/10.1¨ IPS
Brightness	500+ cd/m²
Resolution	1024RGB(H)*600(V)
Camera input	3-CH
Camera Signal	HDMI/CVBS
Audio	Optional
Display mode	Full view image
Auto brightness control	✔
Power Supply	12-36V
Stable Working temp	-20°C-70°C

Smart DVR Carplay Monitor

⦿ PJ-DVC07

Features:

• Carplay android Auto,Wireless Mirror Link

• GPS and AUX Function

• Touch Screen LCD Display,with Backup Camera

• Bluetooth 5.0 Makes Driving Safe

• Audio Source Output Via FM Transmitter And AUX

• Easily Install and Mount

Accessories

Universal Monitor Mounts:

AC-1001 AC-1002 AC-1003 AC-1004 AC-1005 AC-1006 AC-1007

more...

Cable accessories:

AC-2001 AC-2002 AC-2003 AC-2004

more...

9"OE LVDS Streaming Mirror

SMM-900

Features:

- **OE LVDS Design & High-Speed Transmission**
  Factory-designed for automotive OEMs, ensuring seamless integration.
  <40ms low latency with high-frame-rate support for real-time video.

- **Superior Anti-Interference Performance**
  EMI-resistant differential signaling for stable transmission in complex
  electrical environments.

- **True-to-Life Imaging**
  Ultra-HD resolution with vibrant colors and high contrast for crystal clear
  view, WDR/HDR dynamically adjusts to lighting conditions, accurately
  replicating real-world scenes

- **Robust Reliability**
  High temperature and vibration resistance

9.6"1080P Full Display Mirror

SMM-966B

Features:

- **Driving Display Mode**
  Driving display mode provides a broadened HD rear view in order to
  enhance driving safety.

- **Reflective Mirror Mode**
  Which the camera or display should become non-operatonal.

- **Reversing Mode**
  Reversing mode provides a look-down angle with sufficient field of view for safety.

- **Glare Elimination**
  Camera w/ Sony HDR sensor to eliminate glare.

7" Mirror Radar COMBO

TM-700MWR

Features:

- **Long-Range Radar:**
  77GHz radar detects 0.3-40m, 3-level sensitivity, real-time alerts.

- **Integrated Display:**
  Combines radar + video, connects 4 sensors, no host needed.

- **Smart Reversing:**
  Auto rearview on reverse, silent display while driving,
  voice alerts for obstacles.

- **Multi-Scene Use:**
  Vehicle/fixed modes, programmable alarms, 3-channel
  AHD input (CVBS/HD).

Other Mirror Monitors

TM-650 (6.5")　　TM-700QDV(7" REC)　　TM-700B (7")

Specification	
Brightness	500cd/m²
Resolution	1024*600
Display Mode	IPS Screen
Power supply	DC12~36V
DVR	4-way recording

Wireless System

HD wireless solution　Digital signal　Point to point transmission　Long distance transmission　Low delay singal　Day/night vision

2.4GHz HD Digital Wireless System

EC-RED

X4

WRS-702

2.4GHz HD Digital Wireless　Support 1-4CH Inputs　Video Recording　7"HD IPS

Features:

- 2.4GHZ HD digital wireless solution.
- Support 1-4CH inputs for HD camera.
- 7"HD IPS display(other size optional).
- RED certification.
- The transmission distance is 250 meters in open conditions, 30 meter for loaded vehicles.

Product Parameters	
Frequency	2.4Ghz
Transmitting Distance	250M in open air
Antenna	5db, extendable
Monitor	7" IPS
Resolution	1024*600
Video input	up to 4
Power supply	12-24V
Recording	YES, 4-CH
Display mode	dual / quad split view & full view
Storage	up to 256G, SD card

Wireless Zoom System (Tower crane)

WRS-1014X

30X Zoom　500M Transmission Distance　30M Night Distance　IP68 Waterproof

Features:

- **30X Zoom:** Optical 30x zoom mechanism, digital anti shake, capable of clear monitoring of distant targets.
- **500M Transmission Distance:** Meets the requirements for long-distance video transmission of lifting machinery and cranes.
- **30M Night Distance:** Equipped with 4 high-power infrared lights, ensuring 30 meter high-definition night vision for night-time site operation.
- **IP68 Waterproof:** Works under all weather conditions.

Product Parameters	
Screen Size	10.1 Inch IPS
Brightness	500cd/m²
Zoom Ratio	30
Video Input	4-CH
Compression Coding	H.264
Image Delay	<120ms
WiFi Service Fren	24020-2483.5AHZ
Waterproof	IP 68
Working Voltage	DC 12-24V
Working Temperature	-10℃~+60℃

HD Wireless System (Forklift)

WRC-03

WRC-04

⊙ WRS-704C

2.4GHZ HD Digital Wireless

Support 1-4CH Inputs

Video Recording

7"HD IPS

Features:

• 120M: Stable signal transmission up to 120 meters.

• Forklift-specific design: Compact and mini in size, and can be easily installed on a slim forklift arm.

• Magnetic housing: Equipped with magnetic housing camera, no need for wiring.

• Waterproof & Shock-resistant: IP69K waterproof, dustproof, shock resistant, durable.

Product Parameters	
Frequency	**2.4Ghz**
Transmitting Distance	**120M**
Built-in battery camera	**Support 2h/6h operation**
External magnetic battery	**Support 10h operation**
Battery capacity	**4500mAh**
LCD Size/Type	**7"IPS**
Brightness	**500cd/m²**
Resolution	**1024x600 pixels**
Camera input	**4-CH**
Power Supply	**12-24V**

AI Digital Wireless System

⊙ WRS-702AI

Human & car detection

2.4GHZ HD Digital Wireless

Support 1-4CH Inputs

Video Recording

Features:

• **AI-Powered Dual Detection:**
Accurately identifies humans & cars with 0.5T/CH AI computing power (up to ~15M distance).

• **1-4ch Detection:**
Support 1-4channel simultaneous detection of pedestrians and/or vehicles.

• **Stable long distance transmission:**
The transmission distance is 120 meters in open conditions, 30 meter for loaded vehicles.

Product Parameters	
Transmit distance	**120M in open air**
Frequency	**2.4GHz**
AI Computing Power	**0.5T/1T**
AI Detected Objects	**Cyclists, Pedestrians, Vehicles**
Recognition Distance	**15 Meters**
Warning Distance	**Up to 15 Meters**
LCD Size/Type	**7"TFT**
Brightness	**500cd/m²**
Camera input	**4-CH**
Power Supply	**12-36V**

Accessories for wireless system

Monitor

RX AHD/TVI/CVI 720P/1080P

TX AHD/TVI/CVI 720P/1080P

Camera

WRM-01
1080P Wireless transmitter and receiver

BP-01M
Magnetic Battery Pack

BP-02M
Magnetic Battery Pack

Passenger Vehicle Application

AI HD Backup Camera Monitor Kit

FRONT

Human & car detection

Super wide front view

Side blind spot surveillance

5-Inch dual split screen

HD

Night vision

5" AHD AI Blind Spot Camera Kit

• AI Detection - 90%+ accuracy for pedestrians/vehicles

• Specially design to solve front & side blind spot

• Front view:super wide angle view

• Side view:Perfectly solve the visual blind spots on the sides of the vehicle

• High-definition and brightness 5-inch dual split IPS full-view screen

⊙ RK-502AHD AI

Product Parameters			
Screen	5 inch IPS Full viewing angle	Front Viewing Angle	150°
Signal resolution	720P AHD	Side Viewing Angle	90°
Brightness	600cd/㎡	TV System	PAL (NTSC optional)
Display Mode	Dual split & full screen display	Power Supply	Cigarette Lighter
Voltage	12-24V	Monitor Bracket	Suction cup & standalone dual-use

4.3" AHD Wide Angle Backup Camera Kit

• High-definition and brightness 4.3-inch IPS full-view screen

• 150-degree horizontal wide-angle

• Simple wiring (only connect to reverse trigger, no need to connect to ACC)

⊙ RK-430AHD

Multiple Format AI Camera

Output Format

| AHD1080P@ 25FPS | AHD1080P@ 30FPS | AHD720P@ 30FPS | AHD720P@ 25FPS |
| TVI720P@ 25FPS | TVI720P@ 30FPS | CVBS PAL | CVBS NTSC |

8 Ruler Image

AI Chip

Pedestrian& Vehicle Detection

Full Compatibility Adjustment

Adjustable Alarm Zone

◉ PJ-190AI

HD Wide Angle Camera

190°+ Ultra Wide Angle HD Multi-mode Camera

| Front/Rear View Switching | AHD/CVBS Switchable | 190 ° Super Wide View | Top View | 130 ° Normal View | Corner Enlarged View | 180 ° View + Corner Enlarged View |

Features:

- Multi-view modes available on one camera
- Switchable to front view by button
- Extra Keyboard for professional parking line and off center image adjustment
- 190° Super Wide View
- IP68 Waterproof & Dustproof

◉ SW-190

HD 180°SW Camera

180 ° Super Wide View

IP68 Waterproof

Night Vision

◉ SW-126S

Off-center Adjusting Camera

◉ PRO-120

Features:

- Choose the suitable parking line among the pre-set patterns
- Adjust brightness of the image accordingly
- Switch the image horizontally or vertically for different mounting applications
- Available in other PJ camera housings, too.
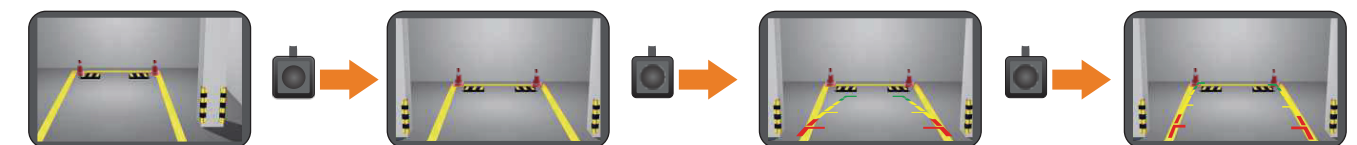
Multi-Function Switching Camera

◉ MM-126S

◉ MM-135

◉ PJ-115

◉ PJ-115C

◉ PJ-114CM

Blue: Mirror/Normal Switch
Purple: Guideline ON/OFF
Green: Up/Down Switch

AHD/CVBS Switchable
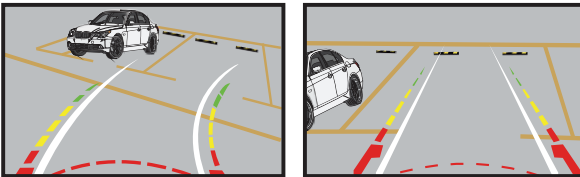
150° Lens

PAL/NTSC Switchable

Night Vision

Universal DynamicTrack Camera

◉ PJ-116DNT

Features:

- Perfect combination of real time image and backing track
- Clear image, best night vision and high level water-proof camera

HD Side View Cameras

◉ PJ-141A-SD

◉ PJ-142-SD

◉ PJ-143-SD
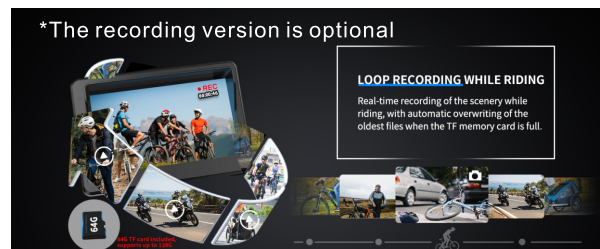
dual mounting design

Bicycle & Motorcycle Application

Bicycle Rear View Camera Kit

IPS — 4.3" IPS Screen
AHD — AHD Image
Inbuilt Battery 8000mAH
Night Vision
Waterproof
Easy Installation

● BK-436

Features:

● AHD 720P/1080P high-definition

● Specially designed for bicycle

● 4.3'' monitor with rear view camera Monitor with inbuilt battery

● Built-in high-capacity 8000mAh rechargeable battery with up to 300 minutes of battery life
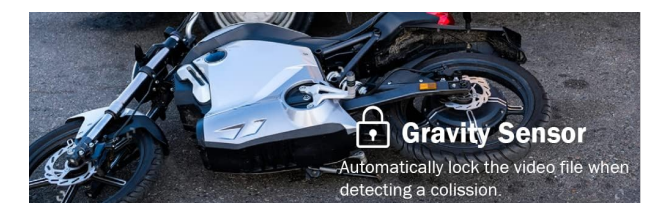
*The recording version is optional

LOOP RECORDING WHILE RIDING
Real-time recording of the scenery while riding, with automatic overwriting of the oldest files when the TF memory card is full.

Camera model optional:

720P

1080P

Monitor		Camera	
Screen Size	4.3" HD 720P/1080P	Image Format	**AHD**
Aspect Ration	**16:9**	Effective Pixel	**1920H×1080V**
Resolution	**IPS800(H)*480(V)**	Angle	**120°**
Input Voltage	**5V**	Power supply	**5V**
Brightness	**1000cd/m2**	Cable	**3M**
Battery Capacity	**8000mAh**		

Motorcycle Carplay Monitor With DVR

Dual Recording (1080P+1080P)
Support Wireless Android Auto
Support Wireless Carplay
Support TF Card
Bluetooth 4.2
IPX7 Waterproof
Adapt to Most Models

● PJ-MO501

Features:

● Wireless Apple CarPlay & Wireless Android Auto

● Waterproof & Anti-Theft Design

● Dual Bluetooth :Dual channels Bluet-tooth wireless

● connection, One for Bluetooth headset or helmet, another for cellphone pairing.

● 5-inch HD IPS Touch Screen

● Dual lens driving recorder: F1080P+R1080P, H.264

● Easy Installation, Fit for All Motorcycle

Gravity Sensor
Automatically lock the video file when detecting a colission.

Loop Recording
Constantly recording and never lose the most recent footage.

| Product specifications			
Connection	Wireless/wired Carplay & Android Auto Wireless mirror linkTF slot	BT	Dual Blue-tooth 4.2
		FM	Support
Screen size	854*480	WIFI	Support
Screen resolution	5 inch IPS Touch Screen	Brightness	300 cd /㎡
Video resolution	F1080P+R1080P, (1920*1080), H.264	Power Supply	12V-30V / ACC start
Camera Angle	D145°/ H115°	Video input	MP3/WMA/WAV/ APE/FLAC
GPS tracking	Support	Operating Temperature	-10℃ ~ + 60℃
G-sensor	Support	Contrast	1:1000

Internal Lab Test
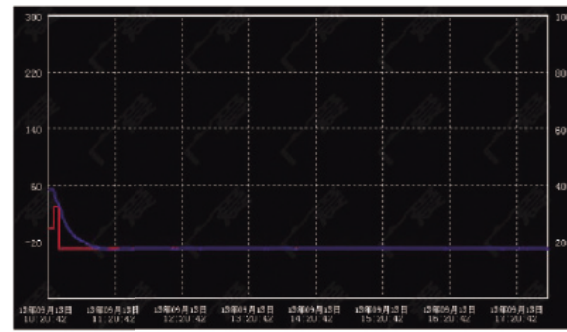
Environmental test (High and low temperature test)

High & low temperature cycling test, all products must pass -20°C to 70°C working temperature, products for special projects pass -40°C to +85°C working temperature test.
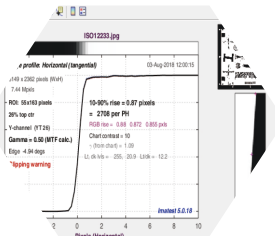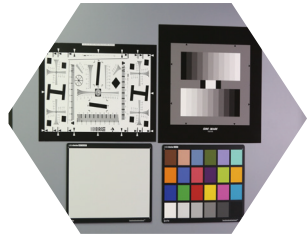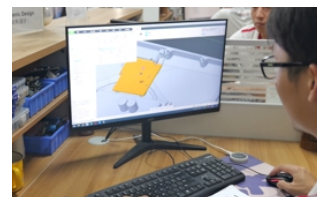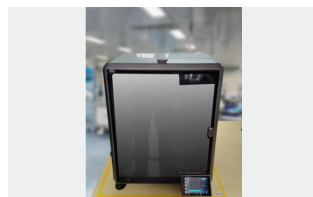

Dark Room

Camera software related tests are conducted in the dark room, such as resolution, colour reproduction, low illumination, white balance, wide dynamic, signal to noise ratio, geometric distortion, etc.
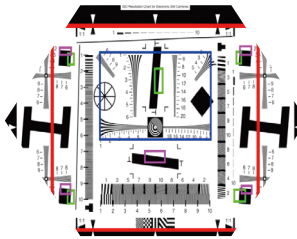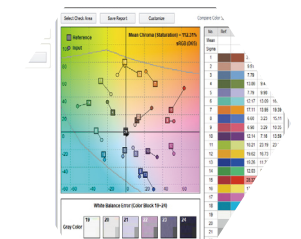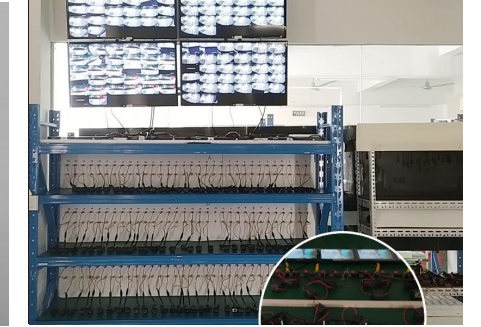

PCB Design

Mechanic Design

3D Printing

Test Truck

Internal Lab Test

Waterproof test:
Soak test: products are soaked in water @ 1-meter-deep water for 1 hr
Air pressure test: products are put into special chamber to run air pressure test

Aging test:
4-8 hours continuous power on test at room temp.

Vibration test:
Vibrate chipsets, PCBA, finished products etc. for 8 hours per axial

Swing Test

Salt Spray Test：
Condition: 5%
Temperature: 35°C

ESD Test & Modification

1. Electro-contact discharge : ±4kv/8KV

2. Air discharge: ±8kv/15kv

LCD Brightness test

Verify the brightness of the LCD monitor

FR Chamber

EMC Pre-scan