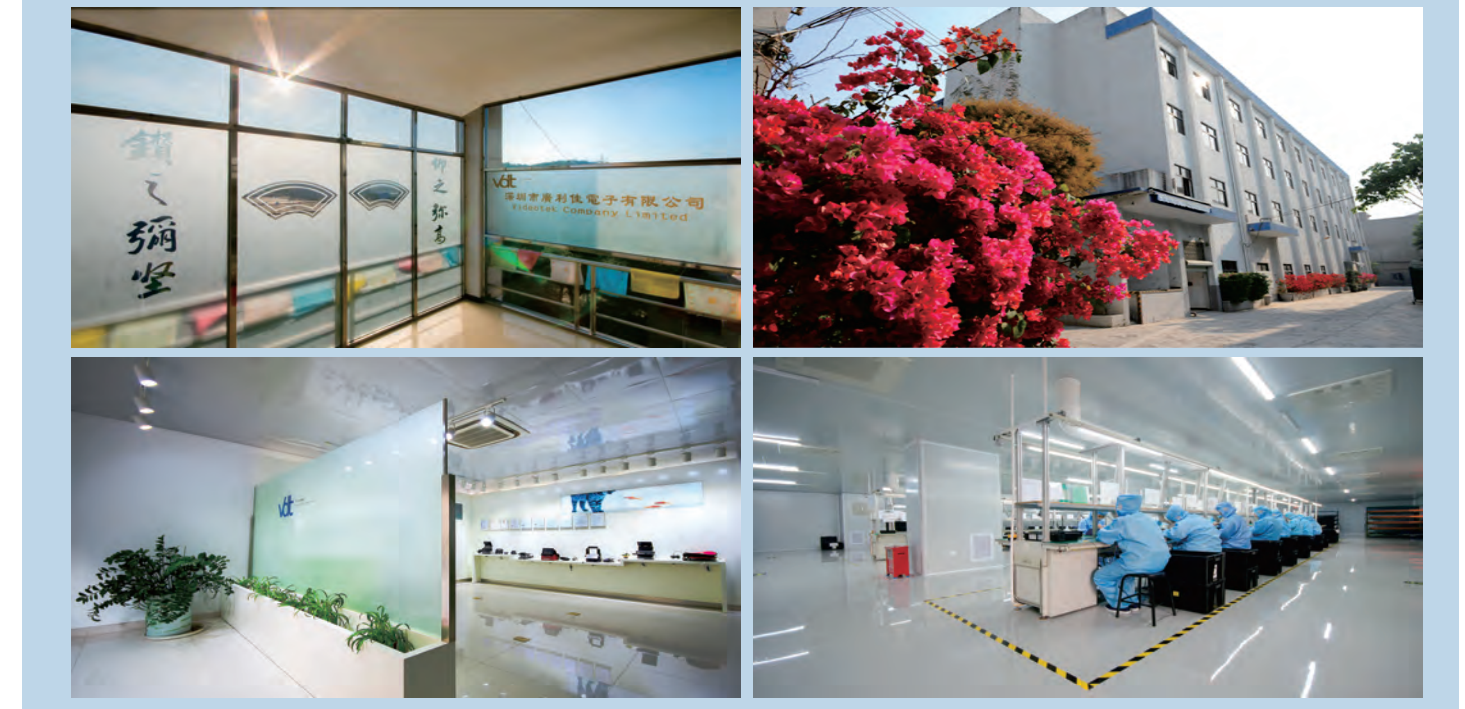




Product Catalogue



Company Introduction



VIDEOTEK COMPANY LIMITED(Vdt) was found in May 2001. Backed by modern information system, excellent R&D technological team, advanced production and testing facilities, Vdt is one of the leading automotive electronics products manufacturer and IOT solutions provider. Vdt business scope is covering in Design, Manufacturing, ODM & OEM in the fields of outdoor electronic products, and capable of offering the turnkey solution to satisfy the oversea and domestic customer needs.

Vdt is endeavoring to quality improving process and is an registered company of ISO9001:2015, IATF16949,ESD, IPC-A-610, 5S certificate. Vdt's featured products honored to win certified of CE,EMC,LVD; and also are certified to CE, EMC, LVD,RTTE.ROHS,REACH and E-MARK by EU; as well as certified to FCC ID,FDA,UL by NA.

Vdt has a well cooperation with many well-known companies all over the world and develops the qualified products for them.Our sales markets are all over in North America, Europe, UK and Japan, Korea. Innovation and improvement constantly makes us quick response to our customer needs. We are confident on delivering the high quality product, cost effective, and environmentally product in worldwide market.

Vdt is heading to a new epochs of development in the next 3 years.We are going to implement industrial 4.0 in the Automatic Production System; to set up IOT & IOV system based on the Cloud, and Block Chain Technology. Our product will be integrated AI technology to make it high efficiency, smarter and more intelligent.

“MAKE LIFE BETTER” is our mission of sharing success.

Our business brings out the share opportunities for mutual benefit of customers, partners and employees so as to ensure we all in win-win situation.

To show you more our advantages to prove you have made a right choice.

Award and Approval

Acquire National High-tech Enterprise

In order to enhance the core competitiveness of the enterprise, Videotek R&D center technical personnel have overcome difficulties and worked day and night to take the development path of independent innovation and sustainable innovation, obtained various patent certificates and software copyright. And formed Videotek core independent property right R&D mode. Videotek was honored as "National High-tech Enterprise" on December 11, 2020. It's further promote the industry status and brand influence of Videotek.



Software Copyright



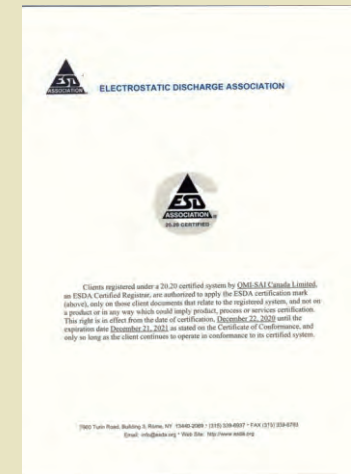
Award and Approval



ISO9001:2015



IATF16949:2016



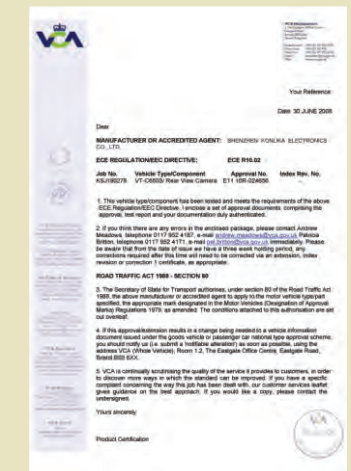
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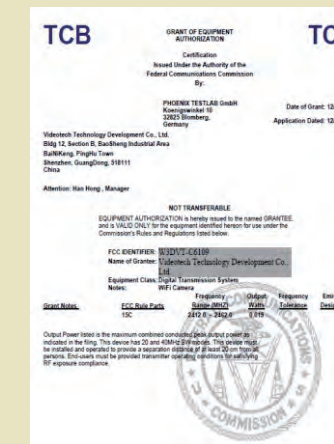
CE



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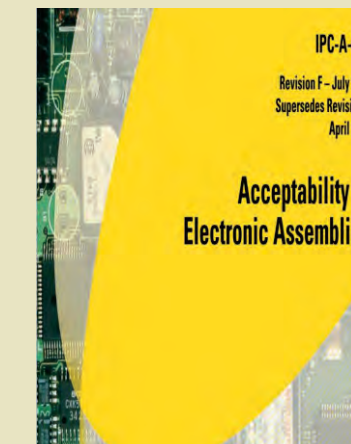
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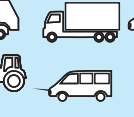



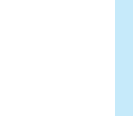





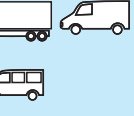


IPC

Vdt Standard Product Overview

	VT-C9192	VT-C6506	VT-C9186	VT-C9181	VT-C9180
Camera					
Image Sensor Type	CVBS/AHD	CVBS/AHD	CVBS	CVBS/AHD	CVBS/AHD
Image Sensor Type	CMOS	CMOS	CMOS	CMOS	CMOS
Pixel	500,000/2000,000	500,000/2000,000	500,000	500,000/2000,000	500,000/1200,000
Viewing Angle	130°	150°/130°	180°	130°	85°/120°
Light Sensitivity	0.1lux	0.1lux/11.4lux	0.1lux	0.1lux/11.4lux	0.1lux
IR-LED Light	No	Yes	No	Yes	Yes
Video System	NTSC/PAL	NTSC/PAL	NTSC/PAL	NTSC/PAL	NTSC/PAL
Auto Heating	Yes	No	No	No	Yes
Waterproof Microphone	No	Yes	Yes	Yes	Yes
Vibration Resistance	10g	10g	10g	10g/8g	8g
International Protection	IP69K	IP69K	IP69K	IP69K	IP69K
Operating Temperature	-30°C--80°C	-30°C--80°C	-20°C--65°C	-30°C--80°C	-20°C--65°C




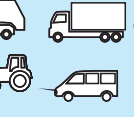
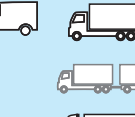



	VT-C6503	VT-C8108	VT-C6108	VT-C9189	VT-C9182
Camera					
Image Sensor Type	CVBS/AHD	CVBS	CVBS/AHD	CVBS/AHD	CVBS
Image Sensor Type	CMOS	CMOS	CMOS	CMOS	CMOS
Pixel	500,000/2000,000	500,000	500,000/1200,000	500,000/2000,000	500,000
Viewing Angle	120°	50°/120°	65°/85°/120°	150°	85°/115°/160°
Light Sensitivity	0.1lux/11.4lux	0.1lux	0.1lux	0.3lux	0.3lux
IR-LED Light	Yes	Yes	Yes	Yes	No
Video System	NTSC/PAL	NTSC/PAL	NTSC/PAL	NTSC/PAL	NTSC/PAL
Auto Heating	Optional	Optional	Optional	No	No
Waterproof Microphone	Yes	Yes	Yes	No	No
Vibration Resistance	8g	10g	8g	8g/6g	8g
International Protection	IP69K	IP69K	IP69K	IP69K	IP69K
Operating Temperature	-30°C--80°C	-20°C--60°C	-30°C--80°C	-30°C--80°C	-30°C--80°C

Application	Loader		Forklift		Agriculture Machine		Constuction Machine		Bus		Truck		Trailer truck	
														

Technical Data

	VT-M9621 12.3"A-pillar Mirror	VT-M9112 10"AHD LCD	VT-M9111 10"AHD LCD	VT-M9113-1 10" AHD LCD
Monitor				
Voltage Range	DC12V-24V	DC12V	DC12V-32V	DC9V-36V
Power Consumption	5.5W	24W	7W	<10W
Resolution	1920*720	1280*800	1280*800	1280*800
LED Brightness	700cd/m ²	1300cd/m ²	400cd/m ²	1000cd/m ²
Video Standard	AHD/CVBS	NTSC/PAL	NTSC/PAL	NTSC
Camera Input(channel)	2	2	4	1
Light Control On Day/Night	Auto	Auto	Auto	Auto
Sunshade	No	No	Yes	Yes
Distance Scale	No	No	Yes	Yes
Audio	Yes	Yes	Yes	Yes
Vibration Resistance	6g	10g	8g	5g

	VT-M9176 7" LCD	VT-M9179 7" LCD	VT-M9177 7" LCD	VT-M9175 7" LCD
Monitor				
Voltage Range	DC12V-24V	DC12V-24V	DC12V-24V	DC12V-24V
Power Consumption	5.5W	≤6W	10W	5.5W
Resolution	800*480	800*480	800*480	800*480
LED Brightness	400cd/m ²	400cd/m ²	1800cd/m ²	250cd/m ²
Video Standard	NTSC/PAL	NTSC/PAL	NTSC/PAL	NTSC/PAL
Camera Input(channel)	2	4	2	2
Light Control On Day/Night	Auto	Auto	Auto	Auto
Sunshade	Yes	Yes	Yes	No
Distance Scale	Yes	Yes	Yes	No
Audio	Yes	Yes	Yes	Yes
Vibration Resistance	8g	6.9g	8g	6g

Application	Loader		Forklift		Agriculture Machine		Constuction Machine		Bus		Truck		Trailer truck	
														

Greater Technology

Waterproof Monitor



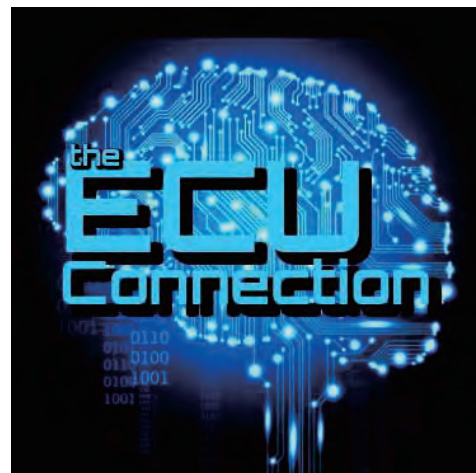
VT-M9112 has a fully optically bonded LCD and LED backlight system (1200 NITS) offering increased optical clarity. The ruggedness and improved durability housing is equipped with IP67 dust/splash proof ability and built-in waterproof speakers. Its back panel can also work world popular mounting system, like RAM. The touchscreen display with Manual operation and picture zoom function. This model is equipped with AHD and CVBS inputs and be able to extend to another external display by HDMI output. This monitor is special design for outdoor, marine, mining and all kinds of harsh working conditions.



ECU technology platform product



ECU type products has HSD/Fakra connectors, realize the four channel, QUAD, 360° 3D surround view and dash cam product scheme of commercial vehicles, and realize the ADAS function: use the camera installed on the vehicle to sense the surrounding environment at any time during the driving process of the vehicle, collect data, identify, detect and track static and dynamic objects, and carry out systematic calculation and analysis in combination with the navigation map data, So that the driver can be aware of the possible danger in advance, and effectively increase the comfort and safety of the car driving; Realize DMS function: use the camera installed in the vehicle to monitor the driver's code of conduct: such as fatigue monitoring, distraction monitoring, prompt alarm and other functions;



Greater Technology

AHD Camera



The AHD rear view Camera featuring a 120° wide angle Million pixel lens along with a 1/3" Sony Progressive Scan CMOS image sensor. It supports 720P (1280x720) resolution over Rg59 coaxial cable. This camera has 18" Small" Infrared LEDs that allow it to capture video in low light environments. The AHD Rear view camera includes image enhancing features such as Digital WDR, Digital Noise Reduction and Smart IR.

LVDS Monitor



LVDS rear view monitor is designed for large-scale construction machines with 24V operating voltage. It features wide input voltage (DC12-32V) and provides 12VDC output voltage to rear view camera. LVDS high definition digital display can connect to megapixel HD camera showing a new full HD mode while it is compatible with traditional camera. Touch screen is optional. The input signal of LVDS camera can be zoomed by 4 times at any area on the monitor and you will see partial image clearly. It can realize signal delay transmission within 10ms and achieve the function of no signal delay"

LVDS rear view monitors use original LCD screen with wide button, better touch, featuring vivid color, fast reversing, stable system. The monitor housing is made of imported raw materials PVC, spraying the imported original anti-abrasive and anti-alcohol paint in order that it is wearable and anti-aging.



Greater Technology

5"RV Monitor with Parking Sensor



This camera system is designed for rear view purpose and consist of a rear-view monitor with built-in 5" digital display, rear-view color camera, four ultrasonic sensors and alert speaker. This system can detect the distance between your vehicle and the object that is obstructing your way by giving sound alarm tones that varies in frequency with the change of the distance while providing you a colorful wide angle video of what is behind you on the screen of your Rear view monitor. The universal camera performs great on any lighting condition and it has parking guide lines so you can better judge distances while reverse parking. Can be installed in two options, hanged with the provided bracket or as a bullet camera, you decide!

Sunlight Readable Panel



Sunlight readable panel is a super bright screen, The brightness can reach 1800nits and can present a colorful pictures even under sunlight, more over the heat generate on this panel is 60% less than similar product.



VDT Mirror Free system

System Description:

The VDT Mirror free system provide a total solution for Mirror free design for Vehicle.

The system consist of two side view monitors with two side heating power folding camera system on both driver side and passenger side. Providing safety driving assist system. The system also provide a back up camera and back up monitor which can offer a total mirror free solutions.

System Setup:

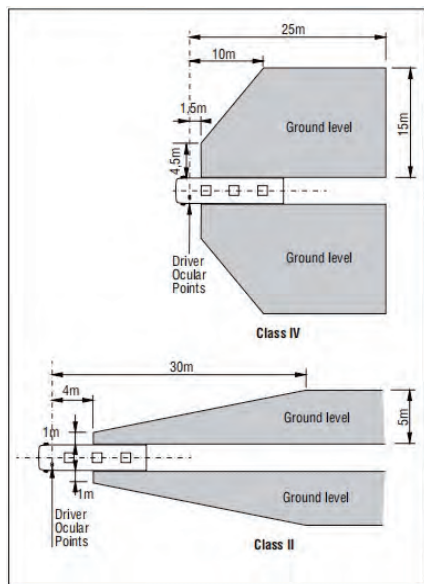
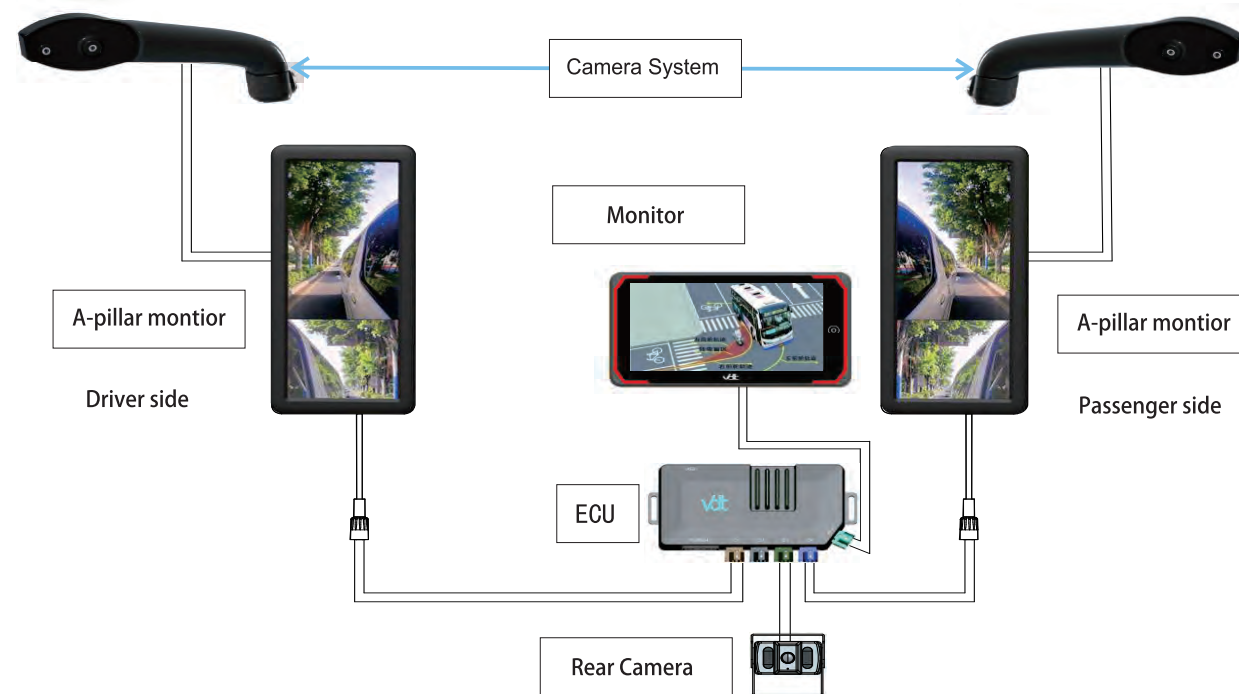


Figure1



Figure2

Feature:

- The function of the Mirror free system is to provide the driver with the legally required class II and class IV fields of view (See figure 1). Both classes are displayed on one monitor (See figure 2). The up & down split view can be switched to 1/3 or 1/2 scale.
- Class II
In accordance with R46 R6, a class II field of view for the main rear-view device provides the operator rear vision along the length of the vehicle towards the horizon.
- Class IV
In accordance with R46 R6, a class IV field of view for the wide-angle view device provides the operator wide-angle rear vision along the length of the vehicle

Technical Data:

- Backlight:TFT LED
- Luminance:Max1000cd/m² can be up to 2000cd/m²
- Display module:12.3"(diagonal),720x1223 pixels(ClassII field of view),720x617 pixels(Class IV field of view)
- Aspect ratio:Portrait3:8
- Communication camera-monitor:High speed Bi-directional over Coax cable,operational with active video channel.
- Ingress protection:IP54

Greater Technology

VDT Mirror Free system

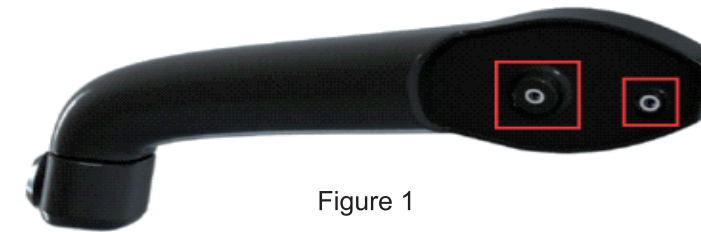


Figure 1

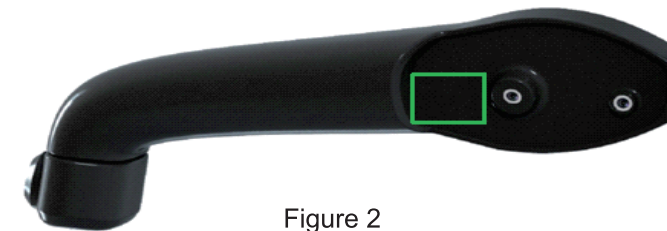


Figure 2

Technical Data:

- Video Sensor:1.4MP image sensors
- Video signal: Uncompressed over Coax cable (3Gbps)
- Night Vision: Color night vision by active day/night filter + IR LED
- Ingress protection:IP69K, dust and high pressure high temperature water ingress protection.
- Optics:H:101deg/V:131deg

Redundancy system:

- As showing in Figure 1 , Two main part marked by red frame are replayceable if there are some broken issue;
- The next version power folding camera will be designed by three camera ,which will be added with the third camera(Mark by green frame in Figure 2) ;
- In case of done working of two main camera ,the power folding camera connector will active the third camera to be video backing up.the camera connected system can detect the broken status of camera module to active the redundancy method;

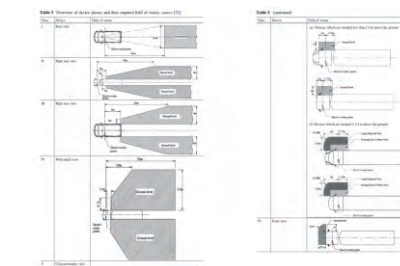
Power folding camera

Power folding camera feature: Swing Arm,Camera Swing Arm can be swung mechanically by maneuvering CAN signal; and pan the view area to be display;



DESIGN STANDARD:

Basic on the standardization and Vehicle Regulation



View Area

Camera module description:

- Video Sensor:Two 1.4MP image sensors for Class II/IV fields of view
- Video signal:Uncompressed over Coax cable (3Gbps)
- Night Vision:Color night vision by active day/night filter + IR LED
- Ingress protection:IP69K, dust and high pressure high temperature water ingress protection
- Optics:Class II field of view H/V: 45/30 deg. Class IV field of view H/V: 90/120 deg
- Video output:Coax connection to ECU
- Swing:The camera system is fitted into power fold arm to enable retraction during truck wash and parking. Also has automatic and manual panning function. The camera modules are also replaceable for maintenance purpose

VDT Mirror Free system



Technical Data:

Interactivity:

HD touch screen display, connected with external ECU through data communication interface, can realize customers' sensory operation of touch screen, set corresponding functional feedback, such as system start sleep, menu control, interface switch.

Controllability:

Such as interactive description, HD display and ECU data communication link, transmission of touch response control commands to stimulate ECU to achieve functional control, such as display area, trigger control etc.

Technical Data:

- Backlight: TFTLED
- Brightness: 800cd/m2
- Display module: 10"(diagonal), 1280x720pixels
- Communication ECU-monitor: Cable with FAKRA connector, operational with active video channel
- Aspectratio Landscape: 16:9
- Operation: Touch control

ECU:

ECU type products has HSD/Fakra connectors, realize the four channel, QUAD, 360°3D surround view and dash cam product scheme of commercial vehicles, and realize the ADAS function: use the camera installed on the vehicle to sense the surrounding environment at any time during the driving process of the vehicle, collect data, identify, detect and track static and dynamic objects, and carry out systematic calculation and analysis in combination with the navigation map data, So that the driver can be aware of the possible danger in advance, and effectively increase the comfort and safety of the car driving; Realize DMS function: use the camera installed in the vehicle to monitor the driver's code of conduct: such as fatigue monitoring, distraction monitoring, prompt alarm and other functions;

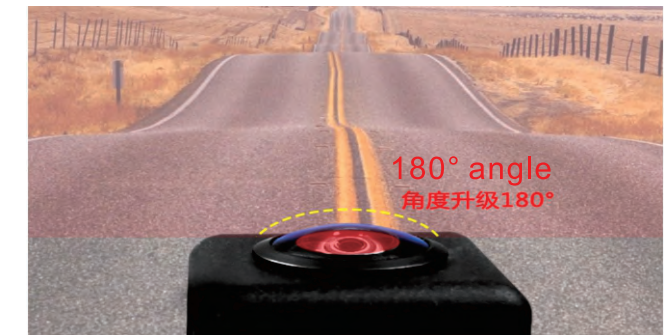
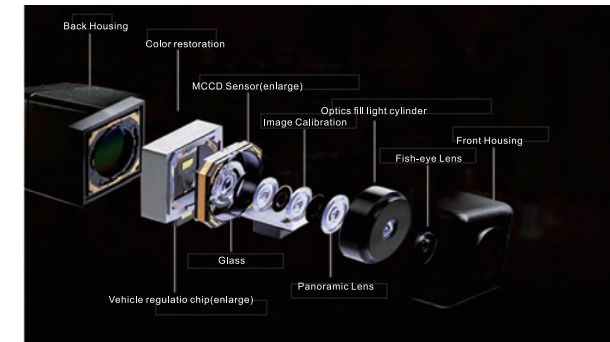


Video input: 4 * Analog HD digital signal / CVBS with resolution of 720p / 1080p input
Video input: Analog HD digital signal with resolution of 720p / 1080p output

Greater Technology

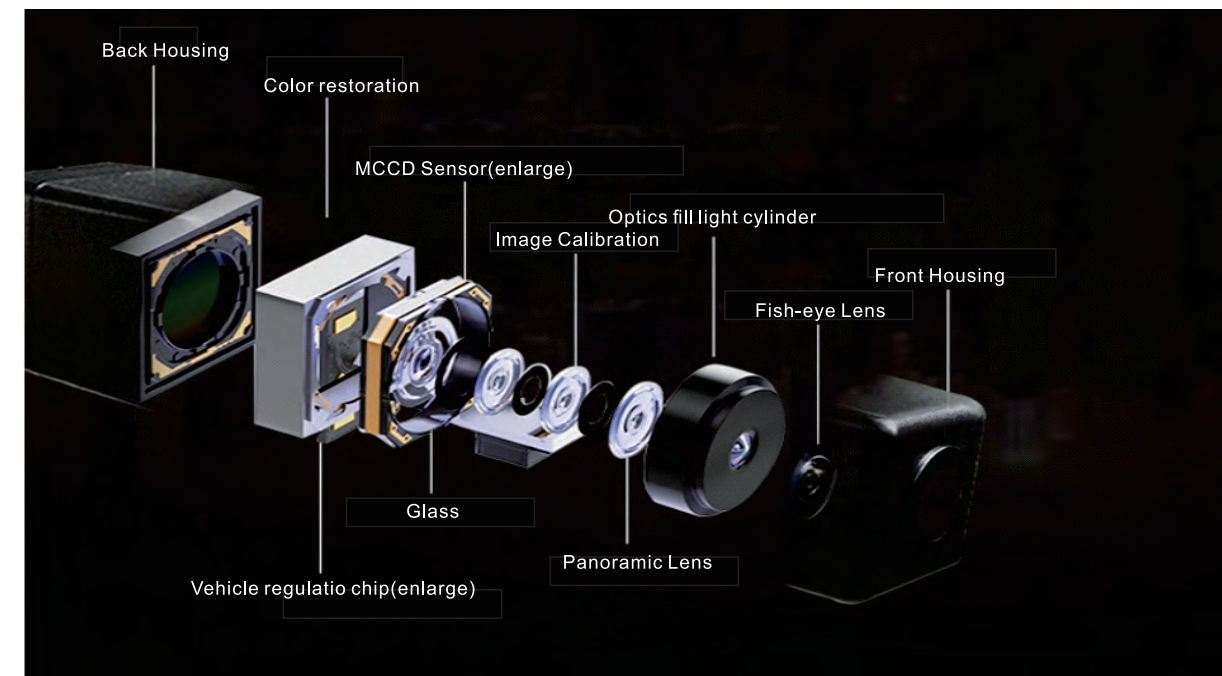
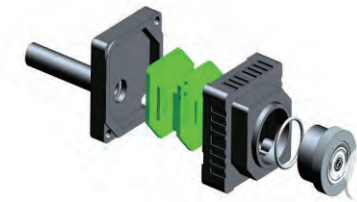
Ultra wide angle camera

Feature: 180° wide view angle, ultra wide angle viewing area; Sony M CCD super HD chip is adopted, which has strong photosensitive recognition, and the picture image restoration is improved by 90% without distortion

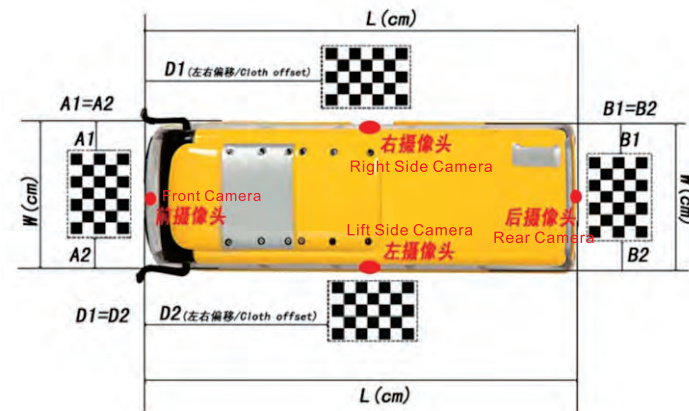


LVDS Camera :

- Video Sensor : 1.4MP image sensors
- Video signal: Uncompressed over Coax cable (3Gbps)
- Night Vision: Color night vision by active day/night filter + IR LED
- Ingress protection: IP69K, dust and high pressure high temperature water
- Optics: View H/V: 45/30 deg or H/V: 90/120 deg
- Video output: Coax
- Swing: The camera system is equipped with a powerfold mechanism to enable retraction during truck wash and parking. Also has automatic and manual panning function



360° 3D Surround View Monitoring System



System description

The 360° 3D Surround View Monitoring Technology synthesizes images from four cameras to create a true 3D sophisticated view of a vehicle's surroundings. The technology enables flexible omni-directional monitoring around a vehicle from a dynamically definable perspective or "free eye point." The surround view monitoring Technology can display the complete vision of the positioning and moving path of the car, it eliminates blind spot and thus works perfectly as a safe parking and driving guide even when restricted by adjacent vehicles and objects, parking line.



Parameter:

Booting time: About 10S

Switching time: Within 500ms

Image delay: Within 200ms

Advantage:

1. Multi view screen combination display;
2. Dynamic stereo radar track display;
3. 3D image display;
4. Built in CAN, multi trigger start mode;
5. Automatic debugging within 30s;
6. HDMI / VGA / AHD / CVBS video signal output;
7. The vehicle bottom perspective can be realized;



Greater Technology

AHD Rear View Camera

The AHD rear view Camera featuring a 120° wide angle Million pixel lens along with a 1/3" Sony Progressive Scan CMOS image sensor. It supports 720P(1280x720) resolution over Rg59 coaxial cable. This camera has 18"Small" Infrared LEDs that allow it to capture video in low light environments. The AHD Rear view camera includes image enhancing features such as Digital WDR, Digital Noise Reduction and Smart IR.



High Image Quality at The Resolution of 720p/1080p

The technology uses a progressive scan while forming a signal and division of brightness and color components of an analog signal: that allows eliminating a blur and blinking, improving a color reproduction.

Long Distance of A Network Laying without Quality Losses

Video data is transmitted without quality losses at the distance of 500m.

Quantitative Video without Latencies

No signal latencies, indicative for IP-systems.

Reliable and Inexpensive Connection

AHD data transmission technology doesn't lay a big claim on a coax cable quality. That's why any available cable can be used for data transmission, including a composite one.

Modernization of An Existing System without Extra Charge

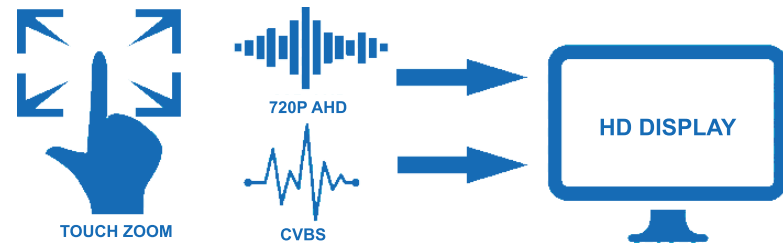
AHD video recorders can be easily integrated in an existing video surveillance system, in this case old analog video cameras can be replaced with AHD ones without any difficulties depending on a speed of a system modernization.

AHD Rear View Monitor



Functions and Features:

AHD rear view monitor is designed for large-scale construction machines with 24V operating voltage. It features wide input voltage (DC12-32V) and provides 12VDC output voltage to rear view camera. AHD high definition digital display, can connect to megapixel HD camera showing a new full HD mode while it is compatible with traditional camera. Touch screen is optional. The input signal of AHD camera can be zoomed by 4 times at any area on the monitor and you will see partial image clearly. AHD rear view monitors use original LCD screen with wide button, better touch, featuring vivid color, fast reversing, stable system. The monitor housing is made of imported raw materials PVC, praying the imported original anti-abrasive and anti-alcohol paint in order that it is wearable and anti-aging.



7"/10" AHD Digital Quad Monitor

- Single View/Split View/Three View/Quad image View Selectable Totally 8 different view modes. Each camera can be full displayed when it is triggered.
- Blue Backlight Keypad will Help Drivers to See and Operate Accurately at Night or Low Light Situation
- OSD MENU Separately Set Each Camera Trigger Priority
- OSD MENU Separately Set Each Camera Reversing Image Delay Time 0-30s
- OSD MENU Separately Set Each Camera Image Can be Rotated to Mirror or Normal
- 1 Cable Solution System Make It Easy For Users To Install and Use The Device In Any Places
- 4 Color Trigger Wires (reversing/ turn left/ turn right/ front) are used for Automatically Showing Image full Screen when it is Activated.
- Color System: NTSC/PAL (AUTO)
- Display Resolution: 2400(H) X 480(V) dot
- Support Four Camera Inputs: 1.0Vp-p75Ω
- Wide view angle (CR:10): (up/ down): 45/65 (left/right): 65/65
- Brightness (cd/m²): 400 (Automatically Adjust Environment by According)
- Contrast ratio: 500:1
- Operating temperature: -20°C to +70°C
- Storage temperature: -30°C to +80°C
- Load Dump: DC14+87V(Td400mS) 5pulses
- Free Operating Voltage: DC11-32V (System Power Max 20W)



Greater Technology

7"/10" High Brightness Monitor

Operating on the outside construction site makes enormous demands on monitor. It is not been satisfied with low brightness, low lux monitors showing dark and dim picture, the definition of image and the details of color transmission which affects design quality and development efficiency. The 2100 nits high brightness monitor improves the performance of the image dark details and resolution that meets design demands.

Hi brightness monitor become the new hot selling product in the market. M9171 and M9110 monitors reach the standard of 2100 nits high bright breaking the limitation of low brightness, dim and dark viewing to bring visual revolution. 2100 nits shows the development of monitor technology progress which is a new milestone in the history of CRT development and it will become the new standard of high brightness monitor

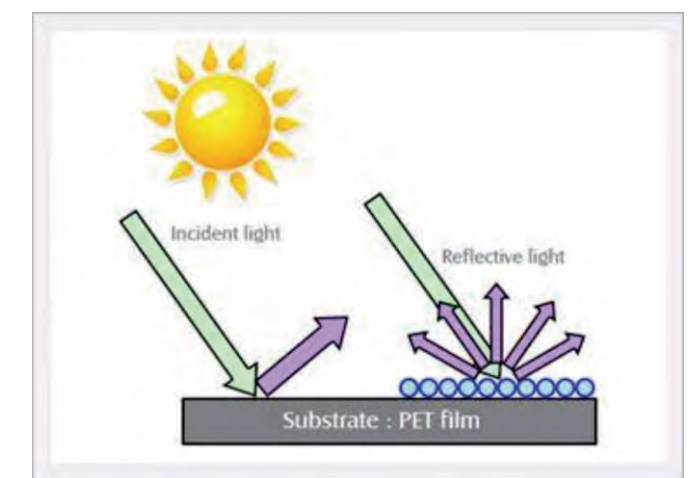
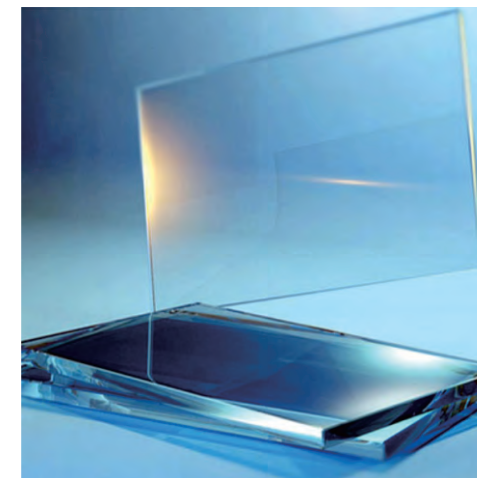


Technical Data

• Inch	7"	10"
• Display Area (mm)	154.08(W)x85.92(H)mm	216.96(W)x135.6(H)mm
• Brightness	2100cd/m ²	1300cd/m ²
• Resolution	800x3(RGB)x480	800x3(RGB)x480
• Contrast Ratio	1000:1	1000:1
• Viewing Angle	(up/down)50° /70° (left/right)70° /70°	(up/down)75° /70° (left/right)75° /75°
• Sync	TTL	LVDS
• Power	12V-32V	12V-32V

Anti-Glare Protection Glass Technology

An anti-glare (AG) coated protection glass, a microscopically rough surface laminated onto the top most of display can diffuse glare. The chemically etched glass that has a slightly textured finish can reduce reflection by scattering light directed on its surface. It can soften the image of direct light sources visible in the reflection of the viewing area.



5" RV System with Parking Sensor

Features:

This camera system is designed for rear view purpose and consist of a rear-view monitor with built-in 5" digital display, rear-view color camera, four ultrasonic sensors and alert speaker.

This system can detect the distance between your vehicle and the object that is obstructing your way by giving sound alarm tones that varies in frequency with the change of the distance while providing you a colorful wide angle video of what is behind you on the screen of your Rear view monitor. The universal camera performs great on any lighting condition and it has parking guide lines so you can better judge distances while reverse parking. Can be installed in two options, hanged with the provided bracket or as a bullet camera, you decide!

Monitor

- Resolution: 960 x 240
- Aspect Ratio: 16:9
- Contrast: 350:1
- Power Consumption 4W
- Dual Video input with auto switch when reversing
- PAL/NTSC
- Auto Switch 4 Parking Sensors Included Alert Speaker with beeping warnings build with buzzer

Camera

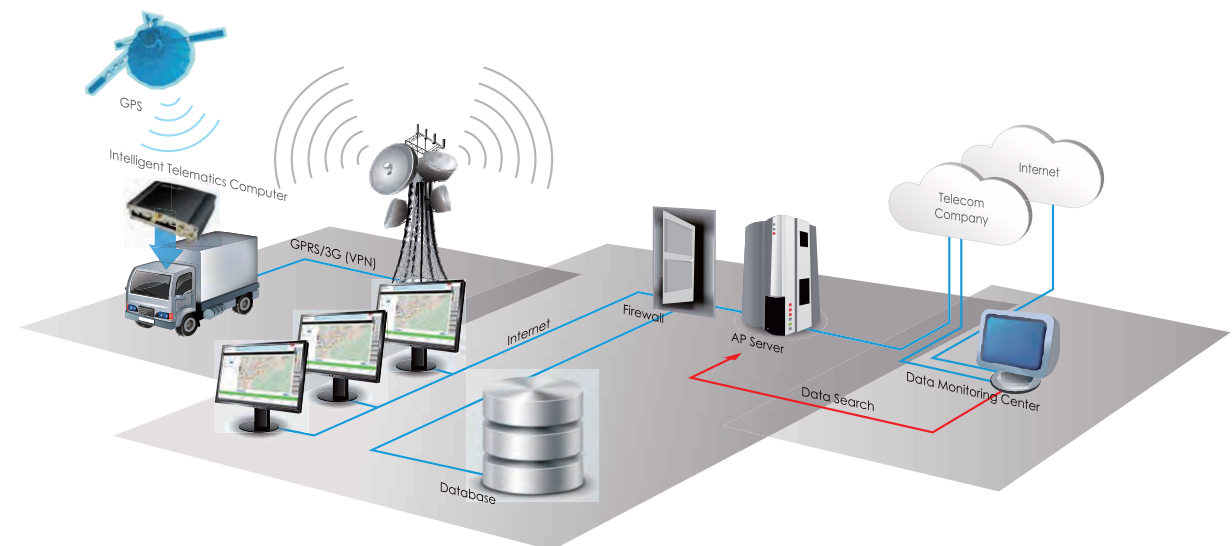
- Camera Viewing Angle: 170° horizontal and 120° Vertical
- Operating Voltage: DC 9V-16V
- Compact Size
- Automatic White Balance
- Low Power Consumption
- Rear-view Parking Guide Lines (with toggle ON/OFF function) Night Vision
- Bi Bi voice warning
- Universal Mount
- Mirror Image Function for Font/Back Installations Camera can be installed hanged or converted to a push-in bullet camera with the included kit.



Greater Technology



Mobile-cam is the ultimate compact new generation telematic device. With built in two way HD video and two way 960H external Video input, high performance GPS module, 4G modem, WIFI, and Bluetooth modules, 2aix G-sensor is versatile in fulfilling fleet management and logistics monitoring requirements for both current and future markets. Powered by ARM11 600MHz processor and Mobile-cam not only includes the rich features present in an advance Cloud Video storage and GPS tracking data, it also allows custom software developments to further enhance the rapidly evolving IoV applications.

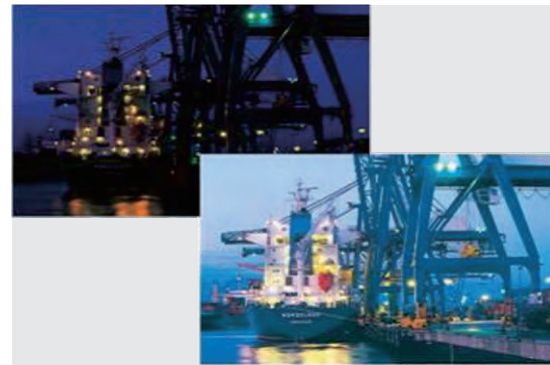


Demisting Technology

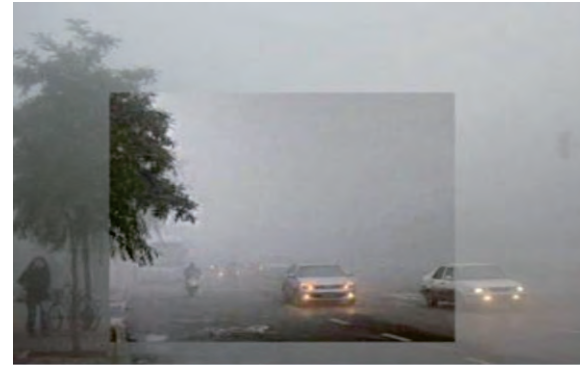
Due to fog, rain, haze, dust, bad weather cause a series of bad effects such as the ineffective image, decrease image contrast, and distant target blurred. By optical or digital signal processing technology to improve image contrast, so we can receive good quality of image and visual experience.

Feature

- Good permeability. The image through the demisting technology has good contrast.
- Details keep a high degree. Through demisting technology can continue to retain or even enhance the details that are in the mist.
- Increasing the ability of color saturation and restore to make images colorful, lively and bright.
- No tone distortion



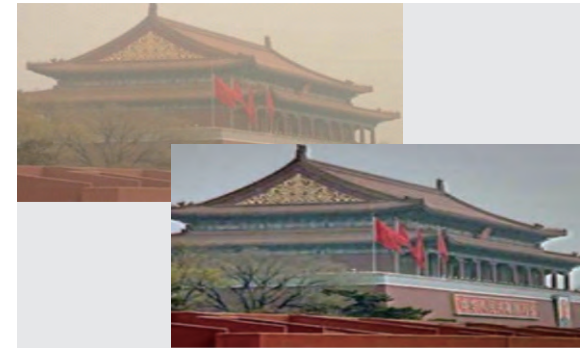
Night



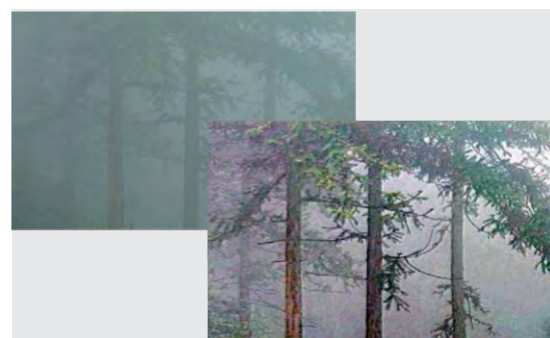
Rain



Haze



Sandstorm



Fog



Underwater

Greater Technology

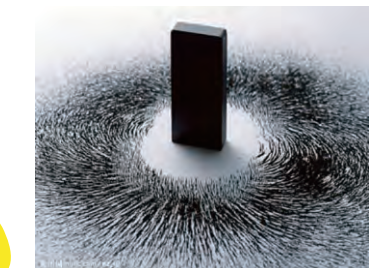
High Temperature Operation

For outdoor and desert application, the LCD monitor may be subject to direct sunlight exposure, and must withstand enormous dry and heat in desert area. The major source of heat usually comes from sunlight. VDT LCD monitor can working under **4K4S desert environment** standard. VDT monitor has a special design on PCB against high temperature up to 85 degree Celsius or 185°F and anti special, The whole monitor design against dust and Strong UV radiation .



High Magnatic Resistant

VDT monitors and cameras can withstand up to 1000Gauss Magnate impact. And apply to electrolytic aluminum work house and Electric Locomotive.



Electric Locomotive



Electrolytic aluminum work house



Electric Locomotive Transporter

Multi Vu / Around Vu Camera

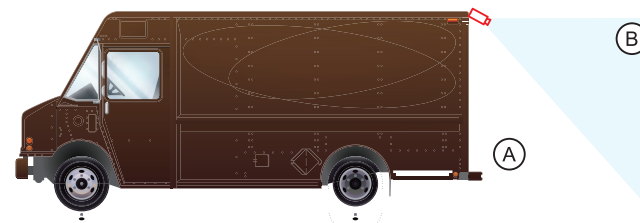


Features

- Hardware support FEC(Fisheye Correction)
- 180 degree fisheye wide angle view, distortion correction,split display
- Blind area with 150 degrees split 3 Angle of view screen
- High zoom capability
- 180 view,dual panorama, single mode view
- Section View(2-Partition Mode, 3-Partition Mode)
- Wide Dynamic Range

Description

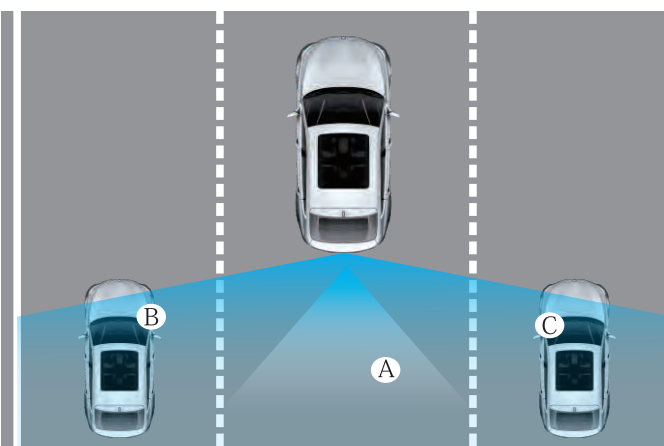
Mode:	VT-C9186
Output Mode:	Full screen,SPLIT,PIP
Sensor Size:	1/3.7"
View Angle:	180°
Audio/Video interface:	6pin waterproof connector
Operating Ambient Temperature:	-20°C to +60°C
Dimension:	54mmx40mmx69mm
Output:	AHD,TVI,CVBS
Resolution:	1280x720@30fps
Power Supply:	12V
Power consumption:	906mW



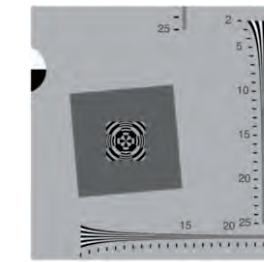
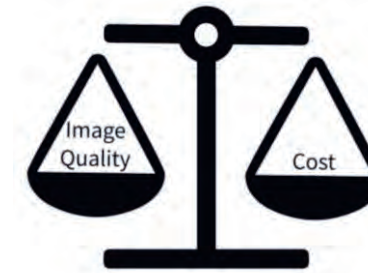
Whole view



Far view/Down view



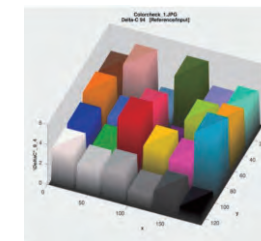
Greater Technology



Sharpness

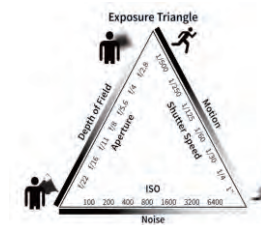
Sharpness

Sharpness is arguably the most important single image quality factor: it determines the amount of detail an image can convey. The image on the upper right illustrates the effects of reduced sharpness



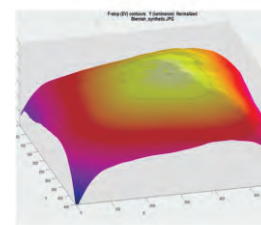
Color Accuracy

Color accuracy is an important but ambiguous image quality factor. many viewers prefer enhanced color saturation, particularly in "memory colors": foliage, sky, and skin. Accurate color is not the same as "pleasing" color. a camera's color response: its color shifts, saturation, and white balance effectiveness.



Noise

Noise is a random variation of image density, visible as grain in film and pixel level variations in digital images. It arises from the effects of basic physics-the photon nature of light and the thermal energy of heat-inside image sensors and amplifiers.

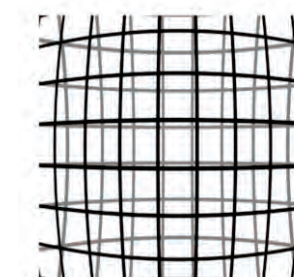


Uniformity

Uniformity

Nonuniformity is measured by Uniformity and Uniformity-Interactive. These modules also measure other sensor nonuniformities, including color uniformity, stuck pixels, local sensitivity variations and noise.

Circular lenses capture more light in center Pixels less efficient if light coming in at an angle Illumination and Color uniformity



Distortion



Original

Distortion Corrected

Distortion

Lens (optical) distortion is an aberration that causes straight lines to curve near the edges of images. Rectilinear lens design avoids it

Fisheye lenses embrace it

Types: barrel, pincushion, wave



Dynamic Range

Determined by quality of signal and noise across range of luminance levels

Enabling Technology:

High bit depth(16-20)

Split pixel

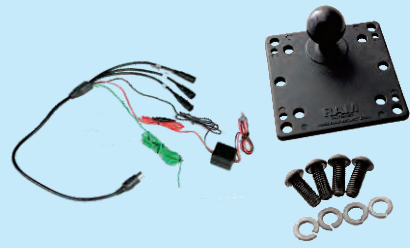
Modulo

Curved sensor

Antireflective lens & housings

VT-M9112 10" Waterproof Monitor

new



Feature:

- Automatic testing function, light control on day/night
- High brightness: 1300cd/m²
- Use aluminum alloy rear shell for heat dissipation.
- Unique color enhancement technology makes the image more colorful.
- Ip67 Waterproof housing
- DC12-24V
- Ultra-low standby power consumption control technology
- 1080p high definition HDMI image output
- Automatic memory all display parameters.
- Two Channel 720P/1080P AHD input compatible with CVBS signal
- High resolution TFT:1280X800 10inch
- Image zooming option

Technical Data:

- Dimension: 325x204x187mm
- High resolution: (1280x3RGB)x800
- High brightness: 1300cd/m²
- Power supply: DC 12-24V
- Video input: AHD 720P/CVBS(N)
- Standby current: < 1mA



Digital Monitor

VT-M9176 7" Heavy Duty Monitor



Feature:

- 2-Channel camera input
- LCD screen contrast and brightness Auto adjusted according to ambient light
- LED back light control buttons with Auto sensor on light
- Monitor Auto switch on when reversing
- Image adjustment Auto saving mode and the default settings
- Last operation setting auto memory function
- Wide voltage design:12V-32V
- Distance scale manually adjustable according the vehicle condition
- Multi-language OSD menu operation
- At low temperatures with automatic heating function(optional)

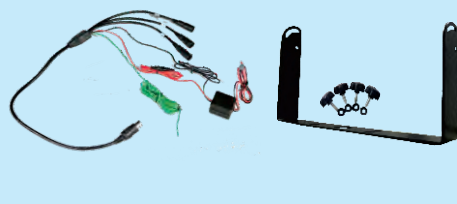
Technical Data:

- Resolution TFT 800*480dot16:9
- High brightness 400cd/m²
- Video input 1V+/-20%75Ω
- Audio input ≥400mV
- Audio output 1W
- Scanning frequency (H)15.625KHz (V)50Hz
- Power supply DC12V-32V
- Standby current <50mA
- TV system PAL/NTSC
- Operating temp -15°C~+65°C
- Storage temp -20°C~+70°C
- Dimension 7"(183x127x28mm)
- Power consumption 5.5W



VT-M9111 10" AHD Monitor

new



Feature:

- Up to 4 cameras input
- Touch screen
- Full function UI operation
- Back holder Adopt to AMPs Rams mounting system
- LCD screen contrast and brightness auto adjusted according to light
- LCD back light control buttons with auto sensor on ambient light
- Monitor auto switch on when reversing
- Image adjustment Auto saving mode and the default settings
- Last operation setting auto memory function
- Wide voltage design:12-32V
- Distance scale manually adjustable according the vehicle condition
- Multi-language OSD menu operation
- Image zooming option

Technical Data:

- Resolution 1280*800dot 16:9
- Brightness 400cd/m²
- Video input 1080P, AHD and compatible with analog video input
- Audio input ≥0.5V±0.05V (P-P)
- Scanning frequency PAL (H) 17.525KHz, (V) 50Hz
NTSC (H) 17.625KHz, (V) 60Hz
- Power supply DC 12V-32V
- Standby current 300mA
- TV system NTSC/PAL
- Operating temp -20°C~+60°C
- Storage temp -30°C~+70°C
- Dimension 10"(262x188x36mm)



VT-M9177 7" Sunlight Readable LCD Monitor



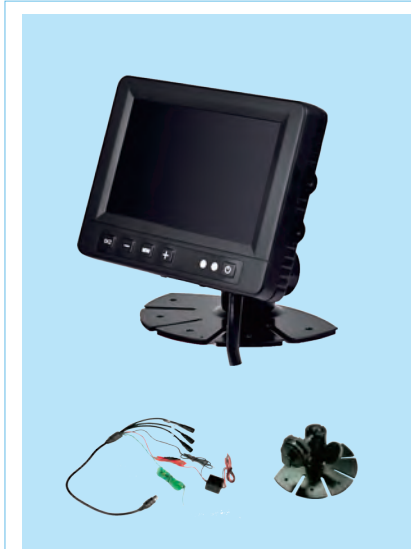
Feature:

- LCD Sunlight readable LCD monitor with LED backlight
- Maximum brightness limited to 1800 nits to conserve power / heat
- Low power, long life, LED backlight 0% to 100% backlight dimming
- antireflective coating Optically bonded to LCD to minimize internal reflections, maximize contrast, and create a vandal shield for the display
- Environmentally-sealed connectors
- Input power: 12V to 32V DC
- Operation temperature:-20°Cto+80°C

Technical Data:

- Resolution TFT 800*480dot16:9
- High brightness 1800cd/m²
- Input 1V+/-20%75Ω
- Audio input ≥400mV
- Audio output 1W
- Scanning frequency (H)15.625KHz (V)50Hz
- Power supply DC12V-32V
- Standby current <50mA
- TV system PAL/NTSC
- Operating temp -20°C~+65°C
- Storage temp -20°C~+70°C
- Dimension 7"(183x127x28mm)





VT-M9156 5" Ultra-Slim Montiro

Feature:

- Ultra-slim design
- 4-Channel camera input
- LCD screen contrast and brightness Auto adjusted according to ambient light
- LED back light control buttons with Auto sensor on ambient light
- Monitor Auto switch on when reversing
- Image adjustment Auto saving mode and the default settings
- Last operation setting auto memory function
- Wide voltage design: 12V-32V
- Distance scale manually adjustable according the vehicle condition
- Multi-language OSD menu operation
- Power supply system can support monitor heating and 4 cameras heating, shutter monitor, LED lighting

Technical Data:

- Video input 1V+/-20%75Ω
- Max audio output 1W
- Screen size 5inch
- Display format 800*480dot 16:9
- Max brightness 400cd/m²
- Power supply DC12V-32V
- Standby current ≤50mA
- TV system PAL/NTSC
- Operating temp -20°C~+65°C
- Storage temp -25°C~+70°C
- Dimension 5"(139x103x27mm)
- Power consumption 4.8W



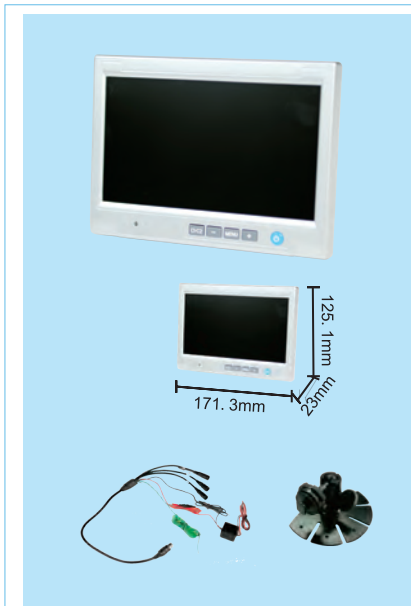
VT-M9159 5" RV System with Parking Sensor

Feature:

- The system includes a rear-view monitor with built-in 5" digital display, rear-view color camera, four ultrasonic sensors and alert speaker.
- Dual Video input with auto switch when reversing
- Automatic White Balance
- Mirror Image Function for Front/Back Installations Camera can be installed hanged and converted to a push-in bullet camera with the included kit
- Low Power Consumption
- Rear-view Parking Guide Lines (switch ON/OFF function) Night Vision

Technical Data:

- Video input 1V+/-20%75Ω
- Max audio output 1W
- Screen size 5inch
- Display format 800*480dot 16:9
- Max brightness 400cd/m²
- Power supply DC12V-32V
- Standby current ≤50mA
- TV system PAL/NTSC
- Operating temp -20°C~+65°C
- Storage temp -25°C~+70°C
- Dimension 5"(139x103x27mm)



VT-M9175 7" Color Rear View Monitor

Feature:

- Ultra-slim design
- High brightness TFT: 250cd/m² Can support up to 400cd/m²
- Image edge editing
- Image adjustment and default setting
- Wide voltage design: DC12V-32V
- Under the standby mode, automatic control and low power consumption
- Automatic testing function, key-press light control on day/night
- Multi-language OSD Menu operation Auto memory function
- Can support 2 cameras, heating and shutter function
- Offer in dash face mount socket
- Cable can extend up to 100M

Technical Data:

- Dimension 171.1×125.1×23mm
- Resolution digital TFT 800*480dot16:9
- Video input 1V+/-20%75Ω
- High brightness 250cd/m²
- Scanning frequency (H)15.625KHz (V)50Hz
- Power supply DC12V-32V
- Power consumption 5.5W
- Standby current <50mA
- TV system PAL/NTSC
- Key-press light control 5±2lux ON; 10±2lux OFF, 4s
- Low voltage directive ≤9.8±0.5V2Min ≤8.8±0.5V2S
- Operating temperature -15°C~+65°C
- Storage temperature -20°C~+70°C
- Audio input ≥400MV



Digital Monitor



VT-M3118 7" Color Rear View Monitor

Feature:

- 7" Color TFT panel
- Auto standby function
- Dip switch normal/mirror image orientation
- High resolution 380TV lines
- Single channel input

Technical Data:

- Dimensions 180×120×40mm
- Diagonal screen dimension 7"/178mm
- Power input 12V-24V
- Video standard NTSC/PAL
- Operating temperature -15°C~+65°C
- Vibration resistance 5g
- Picture brightness 250cd/m²
- Mirrored picture function yes
- Standby current ≤50mA



VT-9611 QFH AHD QUAD Splitter Box

Feature:

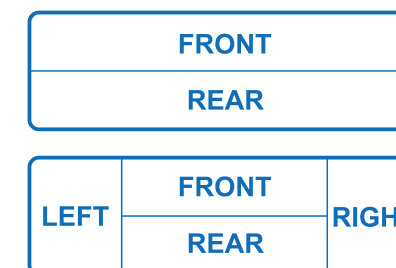
- 4 Channel camera input, adjusting brightness, saturation, contrast, chrome
- Water proof housing with IP67
- Multi screen display QUAD, SPLIT, PIP and 4 cameras Auto switch
- Support 4 cameras with LED light. heating & shutter function
- Special water proof connector
- Under standby, Automatically switched on and switched to the trigger reverse channel
- Multi OSD language: Chinese, English, Spanish

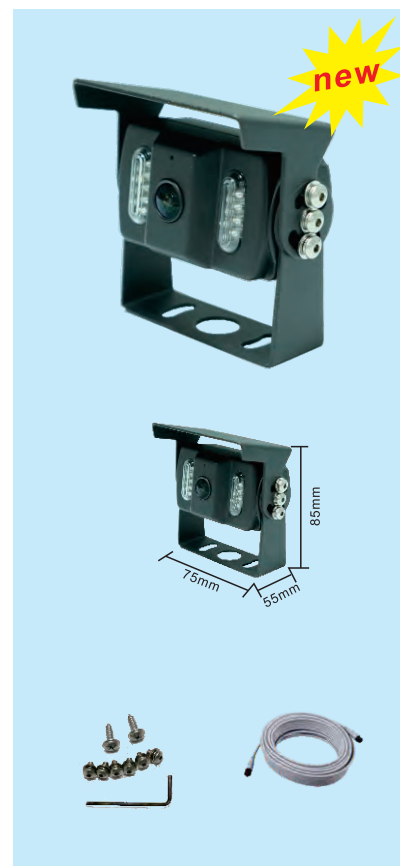
Technical Data:

- Video Standard NTSC: 60fps PAL: 50fps
- High Resolution NTSC/PAL: 1080P
- Input Channel 4channel A/V input
- Output Mode full screen, QUAD, SPLIT&PIP
- Operating Voltage DC9V-36V
- Operating Temp -20°C~+65°C
- Multi-language Chinese, English, Spanish



Image display mode





VT-C6506 Color Rear View Camera

CVBS:

- All water proof, weather resistant housing with IP69K standard
- Wide viewing angle 150°
- 1/3" CMOS image sensor
- 18pcs IR LED low light compensation
- Distance scale(option)

AHD:

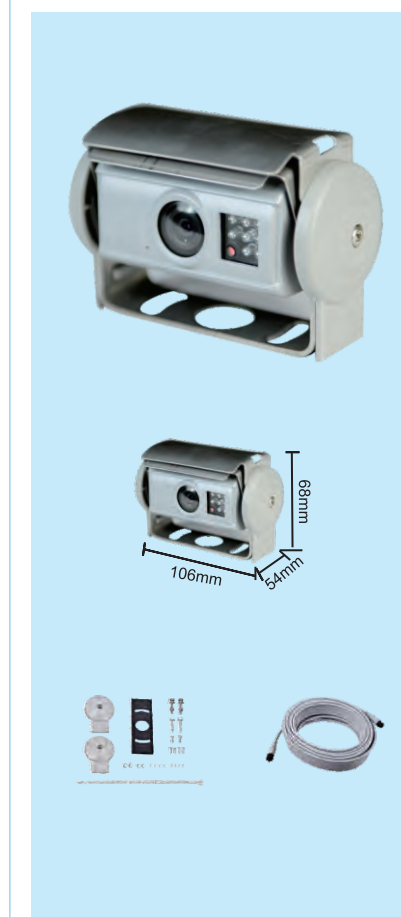
- All water proof, weather resistant housing with IP69K standard
- Wide viewing angle 130°
- CMOS image sensor
- 18pcs IR LED low light compensation
- Distance scale(option)

Technical Data:

- Dimension: 75x55x85mm
- Signal system: NTSC/PAL
- Effective pixels: 500,000pixels
- Operating voltage: DC12±2V
- Protection class: IP69K
- Power consumption: 1.8W
- Operating temp: -30°C~+80°C

Technical Data:

- Dimension: 75x55x85mm
- Signal system: NTSC
- Effective pixels: Approx.2.0M pixels
- Operating voltage: DC9~18V
- Protection class: IP69K
- Power consumption: 1.8W
- Operating temp: -30°C~+80°C



VT-C9180 Color Shutter Camera

CVBS:

- 1/3" CMOS image sensor with LED
- Real-view picture
- Automatic, motor-operated shutter to prevent Soiling of the camera lens
- Anodized and powder coated aluminium Housing with protective cover and mount in stainless steel
- Microphone
- Temperature controlled heater
- Electronic brightness adjustment
- LDR controlled IR-LEDS
- Wide viewing angle 120°

AHD:

- 1/3" CMOS image sensor with LED
- Real-view picture
- Automatic, motor-operated shutter to prevent Soiling of the camera lens
- Anodized and powder coated aluminium Housing with protective cover and mount in stainless steel
- Microphone
- Temperature controlled heater
- Electronic brightness adjustment
- LDR controlled IR-LEDS
- Wide viewing angle 120°

Technical Data:

- Dimension: 106x68x54mm
- Image sensor: CMOS
- Effective pixels: 500,000pixels
- Light sensitivity: 0.11lux
- Operating voltage: DC12±2V
- Power consumption: 1.8W
- Operating Temp: -20°C~+65°C
- Protection class: IP69K
- Resistance vibration: 8g
- Signal system: NTSC/PAL

Technical Data:

- Dimension: 106x68x54mm
- Image sensor: CMOS
- Effective pixels: 1200,000pixels
- Light sensitivity: 0.11lux
- Operating voltage: DC12±2V
- Power consumption: 2W
- Operating Temp: -20°C~+65°C
- Protection class: IP69K
- Resistance vibration: 8g
- Signal system: NTSC/PAL



VT-C9192 Color Rear View Camera

CVBS:

- 1/3" CMOS PC1009 image
- 130° wide viewing angle
- Temperature controlled heater
- Wide operating voltage
- All water proof, weather resistant Housing with IP69K standard

AHD:

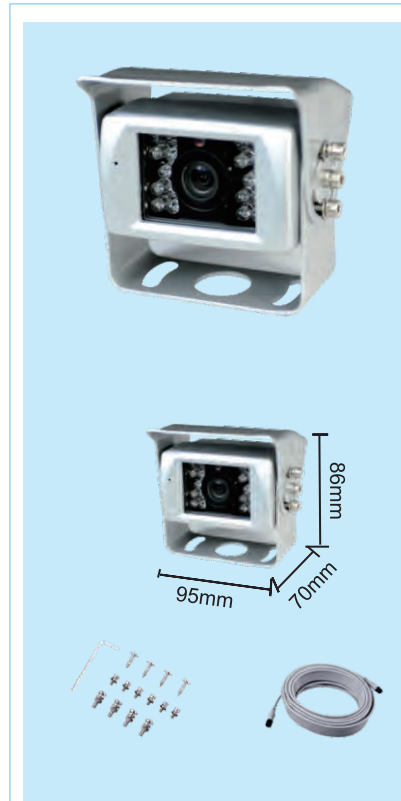
- 1/2.7" CMOS image sensor
- 130° wide viewing angle
- Temperature controlled heater
- Wide operating voltage
- All water proof, weather resistant Housing with IP69K standard

Technical Data:

- Signal system: NTSC/PAL
- Effective pixels: 500,000pixels
- Image sensor: CMOS
- Lens: 80°/100°/130°
- Operating voltage: DC9~32V
- Operating temp: -30°C~+80°C

Technical Data:

- Signal system: NTSC/PAL
- Effective pixels: 2,000,000pixels
- Image sensor: CMOS
- Lens: 130°
- Operating voltage: DC9~32V
- Operating temp: -20°C~+65°C



VT-C6503 Color Rear View Camera

CVBS :

- All water proof, resistant housing with IP69K standard
- 1/3" CMOS image
- Wide viewing angle 120°
- High resolution image
- IR LED low light compensation
- Anodized salt spray proof aluminium die casting housing and high grade Stainless bracket and screws

AHD :

- All water proof, resistant housing with IP69K standard
- 1/3" CMOS image
- Wide viewing angle 120°
- High resolution image
- IR LED low light compensation
- Anodized salt spray proof aluminium die casting housing and high grade Stainless bracket and screws

Technical Data:

- Dimension: 95x70x86mm
- Signal system: CMOS
- Effective pixels: 480,000pixels
- Light sensitivity: 0.11lux
- Operating Temp: -20°C~+65°C
- Resistance vibration: 8g

Technical Data:

- Dimension: 95x70x86mm
- Signal system: CMOS
- Effective pixels: 2000,000pixels
- Light sensitivity: 11.41lux
- Operating Temp: -20°C~+65°C
- Resistance vibration: 8g



VT-C6108 Color Rear View Ball Camera



CVBS:

- All water proof, resistant housing with IP69K standard
- Wide viewing angle 120°
- 1/3" CMOS image
- High resolution image
- IR LED low light compensation
- Anodized salt spray proof aluminium die casting housing and high grade Stainless bracker and screws

AHD:

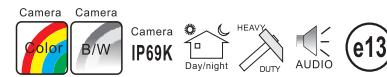
- All water proof, resistant housing with IP69K standard
- Wide viewing angle 120°
- 1/3" CMOS image
- High resolution image
- IR LED low light compensation
- Anodized salt spray proof aluminium die casting housing and high grade Stainless bracker and screws

Technical Data:

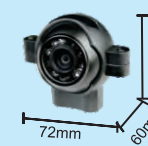
- Dimension: 69.5x66x55mm
- Signal system: CMOS
- Effective pixels: 500,000pixels
- Light sensitivity: 0.11lux
- Operating Temp: -20°C~+65°C
- Vibration resistance : 8g

Technical Data:

- Dimension: 69.5x66x55mm
- Signal system: CMOS
- Effective pixels: 1200,000pixels
- Light sensitivity: 0.11lux
- Operating Temp: -20°C~+65°C
- Vibration resistance : 8g



VT-C8108 Color Front View Camera



Feature:

- All water proof, resistant housing with IP69K standard
- Wide viewing angle 120°
- CCD image
- High resolution image
- IR LED low light compensation
- Anodized salt spray proof aluminium die casting housing and high grade Stainless bracker and screws

Technical Data:

- Dimension: 72x60x63mm
- Signal system: CCD
- Effective pixels: 500,000pixels
- Light sensitivity: 0.11lux
- Operating Temp: -20°C~+60°C
- Vibration resistance : 10g



VT-C9181 Color Side View Camera



CVBS:

- All water proof, resistant housing with IP69K standard
- Flexible mounting standard rear view, Reverse back view mount, left and right Side view
- High resolution: >400K PIXELS
- 170° wide angle lens
- IR LED low light compensation with night vision
- Microphone
- Distance scale (option)

AHD:

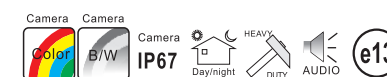
- All water proof, resistant housing with IP69K standard
- Flexible mounting standard rear view, Reverse back view mount, left and right Side view
- High resolution: >400K PIXELS
- 130° wide angle lens
- IR LED low light compensation with night vision
- Microphone
- Distance scale (option)

Technical Data:

- Dimension: 83.5x57.8x44.2mm
- Image sensor: CMOS
- Signal system: NTSC/PAL
- Effective pixels: 500,000pixels
- Operating voltage: DC12±2V
- Operating Temp: -30°C~+80°C
- Lens : 130°/170°

Technical Data:

- Dimension: 83.5x57.8x44.2mm
- Image sensor: CMOS
- Signal system: NTSC
- Effective pixels: 2000,000pixels
- Operating voltage: DC9~18V
- Operating Temp: -30°C~+80°C
- Lens : 130°



VT-C9189 Tube Camera with LED Lights



CVBS:

- All weather resistant housing with IP69K Standard
- Flexible mounting standard rear view, reverse back view mount, left and right side view
- High resolution image
- 170° wide angle lens
- IR LED low light compensation with night vision
- Distance scale(option)

Technical Data:

- Image sensor: 1/3" CMOS
- Signal system: PAL
- Effective pixels: 500,000pixels
- Operating voltage: DC12±2V
- Operating Temp: -20°C~+65°C
- Lens : 105°/135°/170°

AHD:

- All weather resistant housing with IP69K Standard
- Flexible mounting standard rear view, reverse back view mount, left and right side view
- High resolution image
- 150° wide angle lens
- IR LED low light compensation with night vision
- Distance scale(option)

Technical Data:

- Image sensor: 1/3" CMOS
- Signal system: NTSC/PAL
- Effective pixels: 2000,000pixels
- Operating voltage: DC9-18V
- Operating Temp: -30°C~+80°C
- Lens : 150°



VT-6110 5.8GHZ Wireless Trailer Hitch System



Feature:

- Hook up your trailer in seconds.(BOAT, SNOWMOBILE, QUAD 4X4, CAMPER, UTILITY & HORSE TRAILER, SEMI & DELIVERY)
- TRUCKS, BUS & SHUTTLE VEHICLES, CONSTRUCTION & FARM EQUIPMENT, ETC.
- The system is ready to use right out of the package. Nowiring necessary.
- Plug the monitor into 12V power supply.
- Wireless camera operates with Lithium Ion rechargeable battery. (included)
- Wireless camera works for 8 hours with full battery(Charged for 5 hours for full battery)
- Place camera on any metal surface for magnetic mounting
- Watch the ball and hitch as you backthe vehicle to the trailer.

Technical Data:

- 5.8GHz wireless camera
- Image sensor: 1/3.6"CMOS
- Signal system: NTSC/PAL
- Effective pixels: 648(H)*488(V)
- Scan frequency: (H):15.734KHZ (V):59.94HZ
- Viewing angle: MAX 100m
- Wireless transmission distance: Composite signal (1.0Vp-p, 75Ω)
- Video output: DC3.7V±0.4V
- Operate voltage: Max 220mA
- Power consumption: F1.2/0.5lux
- Minimum illumination: -20°C-65°C
- Operating temp: -40°C-80°C
- Storage temp: 130°



VT-C9182 Color Tube Camera



Feature:

- All resistant housing with IP69K standard
- High resolution
- 160°wide angle lens
- Color CMOS chips available
- Compact size for more convenient installation Mm cyclinder super slim bumper installation camera And 25mm cyclinder adapter housing for all other universal mounting
- Hidden-type, specially designed for car rear View systems
- Insertion tube can be twisted in various directions to catch precise and sharp images
- Compatible with various monitors
- Distance scale

Technical Data:

- Image sensor: CMOS
- Signal system: PAL
- Effective pixels: 500,000pixels
- Lens: 85°/115°/150°
- Min illumination: 0.3lux
- Operating voltage : DC12±2V
- Operating Temp: -20°C~+65°C
- Dimension : 72X60X63mm

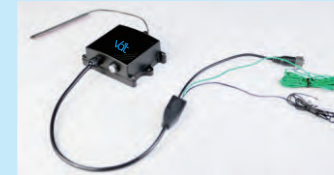


Camera

VT-9303/9305 2.4GHz Digital Wireless Transmission



Transmission



RX



TX

Video latency ≤ 110ms



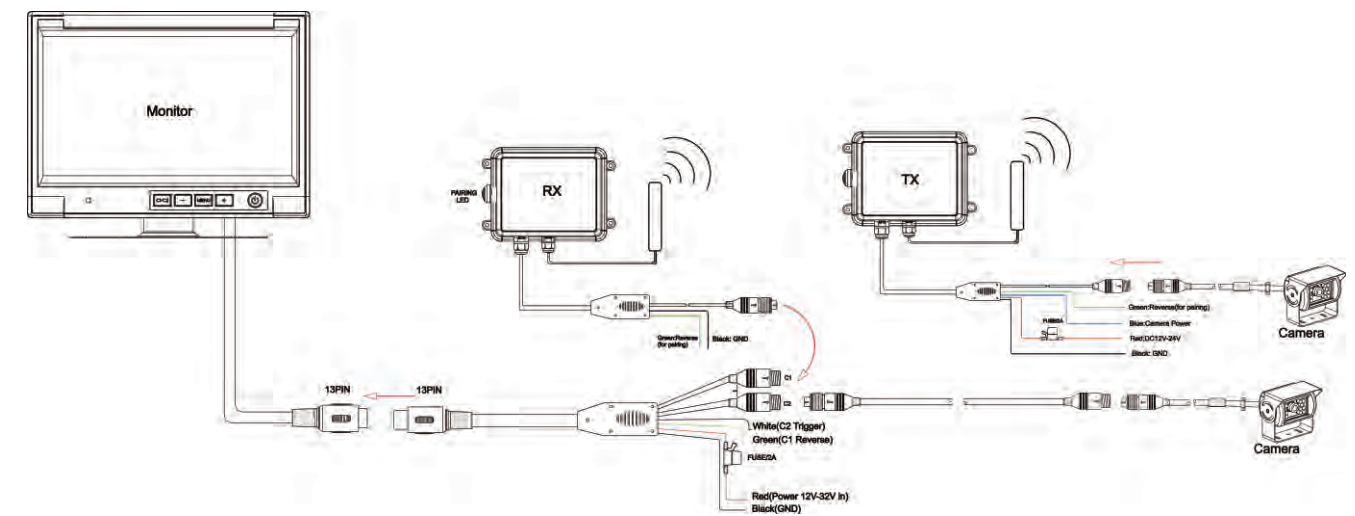
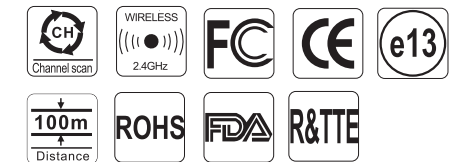
Feature:

- 2.4GHz digital wireless technology transmission
- D1(720X576)picture quality at 25fps frame rate
- Transmission distance 120m
- Manual and trigger operation mode
- Auto paring by trigger line
- Suitable for most of vehicles to avoid possible interference
- Maximum 80 hopping channels with minimum channel spacing 1MHz
- Max hopping rate:1200 hops per second
- The 16-bit CRC checking
- Hardware retransmission for packets
- TX and RX FIFO to store one packets
- Support maximum 1568 bytes FIFO length
- Hardware address setting for certain packet
- 4-wire SPI interface support maximum 30MHz clock rate
- 8Modulation scheme: 16QAM,QPSK,BPSK
- Symbol rate: 3M
- Crystal frequency: 12MHz
- Built-in international PA:+14 dBm @ 16QAM, +18dBm@QPSK
- CE300 328 and FCC 15.247 certificated

Technical Data:

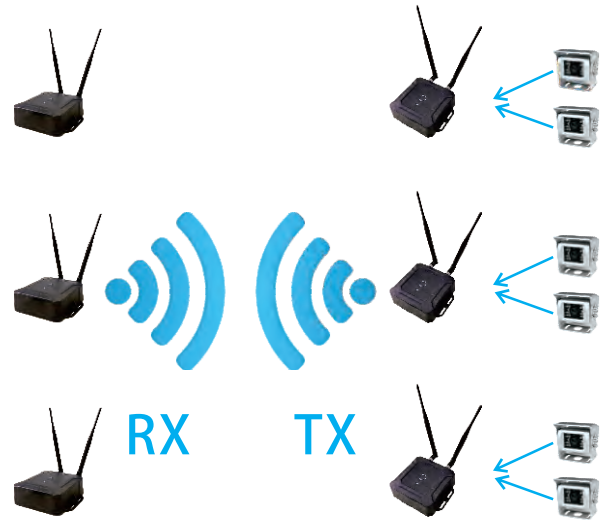
- TV System NTSC/PAL
- Operation Frequency 2.4~2.483 GHz
- Hopping automatically avoid the interference at ISM band
- RF Board Data Rate Max 12Mbps
- Demodulation Type GFSK with FHSS
- Video latency ≤ 110ms
- Operating Temp -10°C~+60°C
- TX:
 - * TX power 15dbm
 - * Frame Rate 30fps Max
 - * Antenna 50Ω
 - * Max Consumption Current 200mA(IR off) 300mA(IR on)
- Power Supply DC12V~36V power
- RX:
 - * Antenna 50Ω
 - * Receiving Sensitivity ≤ -85dBm
 - * Video System NTSC/PAL
 - * A/V Output/Resolution 25fps@720X576 D1
 - * A/V Output Signal Level 1.1Vpp± 0.2vpp @ 75 ohm, S/N> 38dM
 - * Color Configuration RGB Delta
 - * Max Consumption Current Approx.350mA
- Power supply DC12V~36V power
- Frame Rate 30fps Max

TX(min/sec/ms)	RX(min/sec/ms)	LATENCY(ms)
12:10:515	12:10:406	109
11:57:718	11:57:609	109
5:39:281	5:39:171	110
5:13:140	5:13:31	109
5:45:734	5:45:625	109



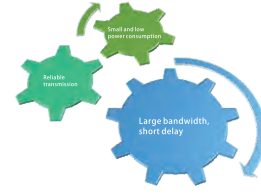
HD Video Wireless Transmission System Up to 3Km Transmission Distance

Point-to-point broadband access and data transmission products. Based on LTE wireless transmission standard, adopted the key technologies of OFDM (Orthogonal Frequency Division Multiplexing) and MIMO (multi-input & multi-output), support multiple bandwidth allocation: 10MHz, 20MHz, 50MHz, etc, Flat system architecture design, effectively reduce system delay, improve system transmission capacity, with long transmission distance, large data throughput, strong anti-interference. The product adopts the industry-initiated SOC chip, provide high-integration point-to-point transmission products, greatly reducing system power consumption, reducing product size, and meeting customer needs for developing UAV, video surveillance and other products.



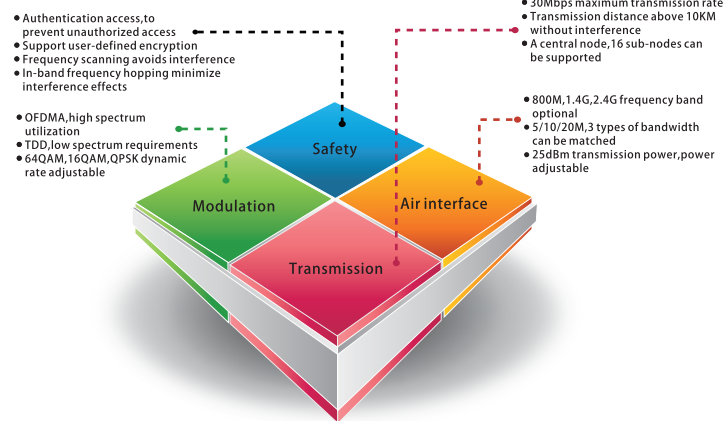
Feature:

- Super penetrating
- Super diffraction
- Ultra low power consumption, the whole machine consume less than 2W
- Strong anti-interference
- Ultra distance: 1Km-15Km
- Self-set frequency (2.4G/1.4G/800M) multiple optional frequency bands, avoiding "congested road segments", dedicated wireless channels, wireless link dynamic adaptation technology, effectively guarantee data transmission reliability, and support channel encryption
- Point-to-point/point-to-multipoint/multipoint-to-multipoint/multipoint to point



Technical data:

Wireless characteristics	Spectrum agreement	2.4G/1.4G/800M
	Modulation system	OFDM
	Level display	Support receive level status/antenna proofreading
Radio frequency characteristics	Band scanning	Site scanning and channel detection
	Radio frequency power	25dBm±1dBm
	Radio frequency bandwidth	10/20/50MHZ
Security features	Rate bandwidth	15/30/75Mbps
	Encryption	Custom communication system, support custom encryption mode
	Encryption setting	Code Access/layer 2(AES/SNOW3G/ZUC)/Encryption/User Data Encryption
Electrical characteristics	Power supply	DC input 12V/1A
	Maximum power consumption	2W
Interface types	Antenna interface	External omnidirectional/directional antenna(optional)
	Antenna transmission	Single antenna transmission, dual antenna reception
	Network Interface	Standard: 1 10/100/1000M Ethernet port
Physical properties	Size	115X115X40mm
	Weight	1KG
	Material	Die-cast aluminum
Environmental characteristics	Storage temperature	-40°C~+85°C
	Operating temperature	-20°C~+75°C
	Operating humidity	5%~95%
	Waterproofing grade	IP68



Application

Broadcast function



Remote transmission



Multi-point mutual transmission



Digital Wireless Transmission

VT-M9176SFH Multiplexer Monitor Special for RV with Bicycle Carrier



VT-M9176SFH

Monitor:

- 7" Monitor with 2 channel camera input
- LCD screen contrast and brightness auto Adjusted according to ambient light
- LED back light control buttons with atuo Sensor on light
- Monitor auto switch on when reversing
- Multi screen display split and 2 cameras switch
- Automatic identifying and compatible

Technical Data:

- Dimension: 183*127*28mm
- TV system: NTSC/PAL
- Resolution: 800*480dit 16:9
- Brightness: 400cd/m²
- Power supply: DC12V~32V
- Operating temp: -20°C~+65°C



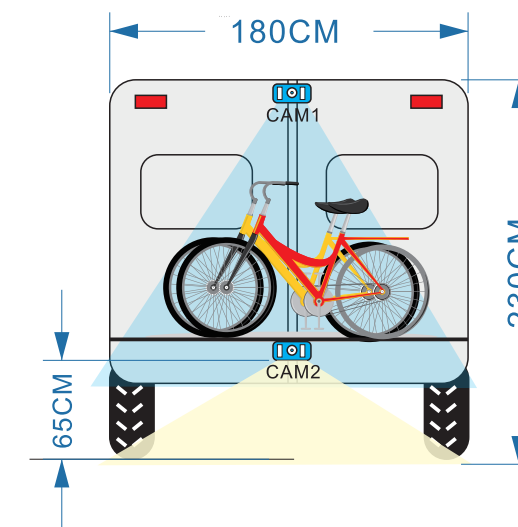
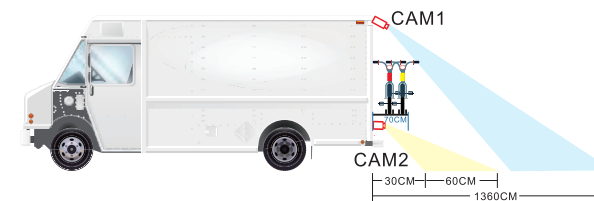
VT-K9612S

Switching Box:

- 2 channel camera input
- Water proof housing with IP67
- Auto switch on when reversing
- Multi screen display split and 2 cameras switch
- Automatic identifying and compatible with AHD and CVBS camera input

Technical Data:

- Video output: AV output
- Video mode: full screen, split
- Operating voltage: DC12V~32V
- Operating temp: -20°C~+65°C



Whole view



VT-6109 WiFi Camera



The new Wifi Hitch Cam offers the capability to position portable Li Fe battery powered wireless cameras in separate locations. The cameras transmit to Iphone, IPad, Android device or a high definition color monitor with a toggle switch that allows the viewing of the images from the camera.

Application

- Hitch up a trailer using two views watch the towing vehicle's trailer hitch and the trailer being towed.
- Watch horses in a trailer from camera.
- Monitor the trailer load being towed from two locations.
- Agricultural applications:
Watch two bins or silos that are beside each other fill up.
View the front and rear of any moving equipment.
- One step setup: No installation or wiring is needed.

Camera can be placed inside or externally of the trailer to watch the hitch hook up or watch the horse



Place camera here to line up ball&hitch

Place here to backup trailer

Horse trailer

BACKEYE APP free down load from Apple store and Google Play store



iOS



MUX System



IP 69K 6pin Waterproof Connector



4pin Metal lock Connector



6pin Metal Lock Connector



Connector Cap



20m Extension cable



Rubber Sealing Sleeve



Adapter Cable



Adapter Cable



Adapter Cable



Monitor Power Harness



Spring Cable



Fakra Connector



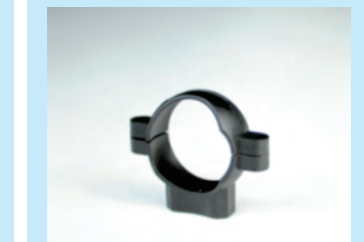
Sun Shield



Monitor Bracket



Dash Mount Socket



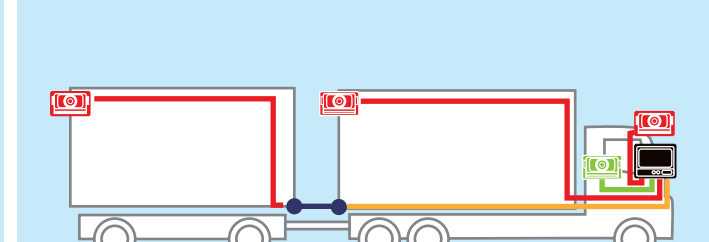
Camera Holder



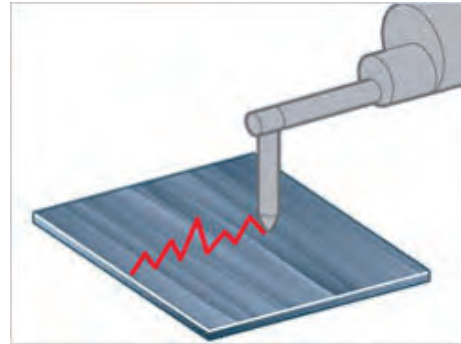
Rubber Pad



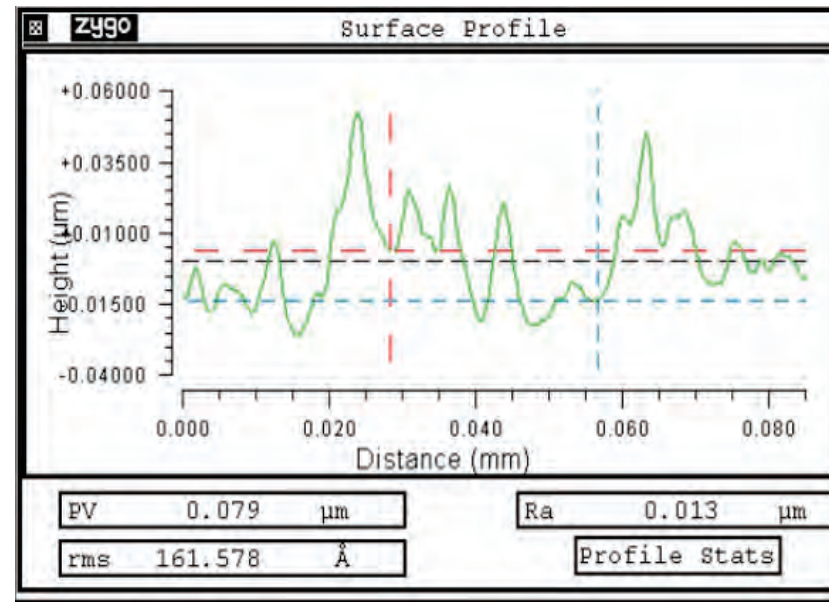
Screws



Surface finishing

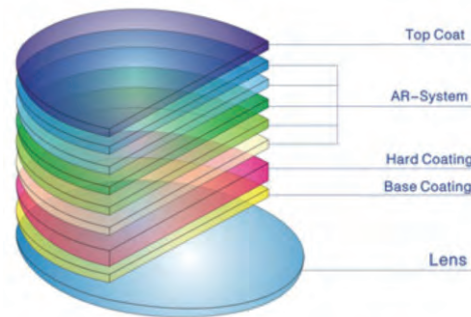


- Center Thickness
- Tolerance
- Radius of Curvature
- Surface Finish



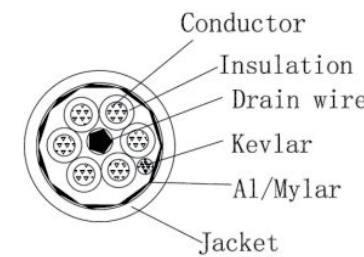
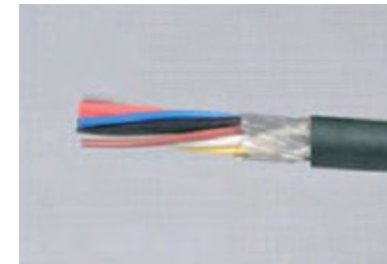
Optical Coatings

An optical coating is composed of a combination of thin film layers that create interference effects used to enhance transmission or reflection properties within an optical system.



Consistent Performance

Heavy Duty Video High-flex Cable



APPLICATION:

- Signal
- Control
- Instrumentation
- Power

BENEFITS:

- Flexible-construction 20 AWG stranded tinned copper wire
- Protection against Radio Frequency Interference (RFI) and Electro Magnetic Interference (EMI) with tinned copper braid shield over aluminized foil shield
- Industry standard color-coded conductors
- Temperature rating -30°C to 80°C (-22°F to 176°F)
- Custom legends, colors, private labeling,
- Environmentally-friendly rodent aversion options available

FLEX:



EXTREME ENGINEERING:



Number of Conductors	4-75 Ohms Coax with 30 AWG Center Conductor
	4-24 AWG Insulated Conductors
Fillers	Non-Wicking Poly
Inner Conductor Colors Coax:	Wt, Rd, Og, Bk
Conductors,	Bu, Bn, Ye, Gy
Outer Shield	95% 36 AWG TC Spiral
Cable O.D.	0.275" Nominal
Coax O.D.	0.076 ± 0.005"
Conductor	O.D. 0.045" Nominal
Max. Operating Voltage	30V
Capacitance	18.6 pF/ft ± 2
Velocity of Propagation	75% min.
Propagation	Delay 1.5 nS/ ft. max.
Maximum Temperature	80°C
NEC/(UL) Specification	UL Recognized AWM
CSA Specification	CSA AWM I/II A/B
RoHS	RoHS Compliant
Plenum/ Non-plenum	Non-Plenum
UL Flame Test	VW-1
Characteristic resistance	75Ohms

Water Proof Connector

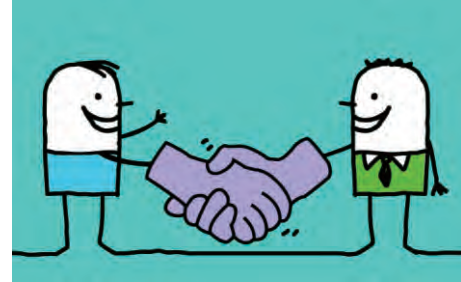
The water proof connector with IP69K protection rate is special designed and applied to heavy duty application. Beside IP protection it also comply with 3GHz electronics interference and can put into 100 degree hot engine oil.

The water proof testing is under the condition :

- Water Depth: 1m
- Water Temp: Room Temp
- Test Time: 30min
- The result is no leaking for the connector.



Contact By Touch



When the power is on, you don't want shock or vibration to create spurious signals. VDT's Spring-load Connectors provide a reliable electrical connection in the most rigorous environments:

- Maximum Continuity: Precision-machined gold-plated components and a low-resistance spring maintain a consistent electrical path.
- Maximum Stability: Tested to a minimum of 50G shock and 10G vibration with no spikes $>1\mu s$ and $>1.15V$ with 0.5A applied.
- Maximum Endurance: 1,000,000 cycles and still electrically silent.

EMS7637A

EMS7637A Automotive Immunity Test System+Automotive High-energy Load Dump Simulator



- Short Interruption in Power Supply
- Reset Behavior
- Cold Cranking
- Superimposed Alternating Voltage
- Conducted Transients: Supply Disconnection
- Conducted Transients: Harness Inductance
- Conducted Transients: DC Motor Field Collapse
- Conducted Transients: Device Switching A
- Conducted Transients: Device Switching B
- Conducted Transients: Load Dump
- Conducted Transients: Capacitive Coupling Clamp (CCC)

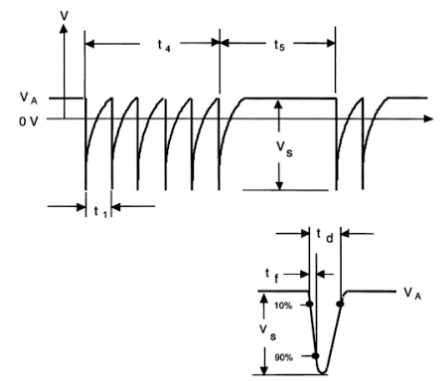


FIGURE 5 - TEST PULSE 3A SWITCHING SPIKES

Advantage:
Tested voltage: -600V for 12V system.
Output Resistance: 20Ω for 12V system.

Consistent Performance

Thermal shock test machine LBT-2-100S



It is used to assess the adaptability of the product to the rapid change of ambient temperature. It can be used to find the design and process defects of the product in the development stage, to provide the basis for the decision-making of product finalization or design appraisal and acceptance in the batch production stage, and to use the experimental results as the environmental stress screening to eliminate the early faults of the product.

Parameter available :

Temperature range: $-55^{\circ}C$ to $180^{\circ}C$.

Cycle required: 168H to 800H.

Temperature switching time: 5 sec

Reference:

SAE J1455 REV MAR2017

Advantage:

The temperature switching time is faster than the IEC 60069-2-14 section 7.2.5 required for 3 minutes.

Waterproof testing machine LBT-IPX9K



It is mainly to test the protective performance of the product shell by spraying at a specific time, water volume and pressure, through multiple angles and multiple times, and at the same time spraying high-temperature and high-pressure steam. The objective is to find the design and process defects of products in the development stage, to provide the basis for the decision-making of product finalization or design appraisal and acceptance in the batch production stage, and to use the experimental results as the environmental stress screening to eliminate the early failures of products.

Water spray temperature: 80°

Water spray distance: 10~40cm (20-30mm)

Water pressure: 8000~10000kpa (7000kpa)

Continuous water spray: 0-999min (adjustable) (378min)

Water spray duration: 3S-9999min (adjustable)

Water spray angle and duration: 0° , 15° , 30° , 60° , 90° ,

Spray water for 30 seconds at each angle

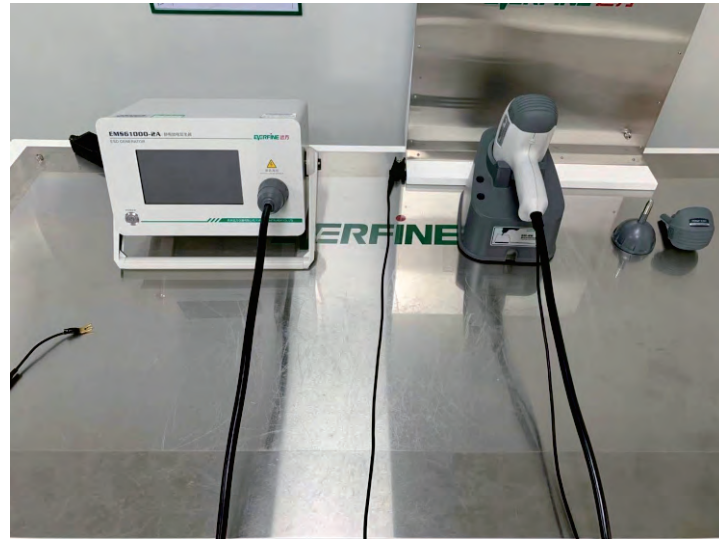
Flow rate 14000-16000cm³/min (9460 cm³/min)

meet with national standards GB-4208-2008 Protection level

Machine use voltage 380V 50HZ

Data reading Internal storage

Electro-Static Discharge Machine



Parameter available:
 ESD simulator tip resistance: 330 Ω
 ESD simulator tip capacitance: 150pF, 330pF
 Type of discharge: Contact, Air
 Test Voltage: ±4KV to ±25KV
 Cycle require: 3 discharges per test sequence

Reference:
 SAE J1113-13

Advantage:
 The device(unpowered) for air discharge is ±25KV, strict than EN61000-4-2.

Mechanical impact testing machine SKT30



It is determined whether the performances are failed when the product is subjected to a series of shocks under normal and extreme conditions. Through the impact test to test the product technical indicators including: peak acceleration, pulse duration, speed change (half sine wave, after peak sawtooth wave, trapezoidal wave) and waveform selection to meet the standard.

Work platform: 400*400mm
 Maximum load: 30KG (The company's product weight is 13kg)
 Peak acceleration: Half sine wave: 20—600 G (**30G**)
 Pulse duration: Half sine: 1---18ms(**11ms**)
 Peak acceleration: After peak sawtooth 30-100G
 Pulse duration: Half sine: 6---18ms
 Equipment size: 1050×1150×2500mm
 Equipment weight: 2100 kg

Consistent Performance

Electromagnetism Testing For Cable And Connector



Test Standard	ISO11452-2:2004
Standard	A
Frequency Range	80- 3000 MHz
Test Levels	30V/m ²
FM	AM,80%(800-3000MHz) PM,577μS,(800-3000MHz)
Power Input	DC12V-24V
Mode Of Operation	A
Ground Wire	NO
Temp	24°C
Humidity	50%
Atmospheric Pressure	1 01kPa

Electromagnetic vibration testing machine EV206H0404-VCSusb-2

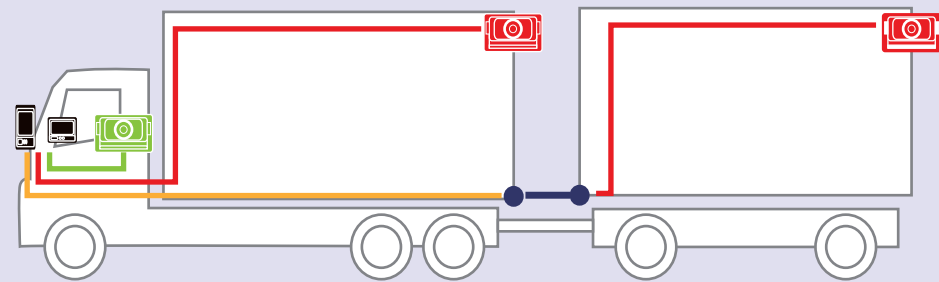
Experiment Purpose:

To simulate actual working condition and structural strength test, this device can do sine wave, frequency modulation, frequency sweep, programmable, frequency doubling, logarithm, maximum acceleration, amplitude modulation, time control and full-function computer control. It can set the acceleration, amplitude and continuously trouble-free operation time via computer to verify product performance stability and quality reliability.

Parameter:

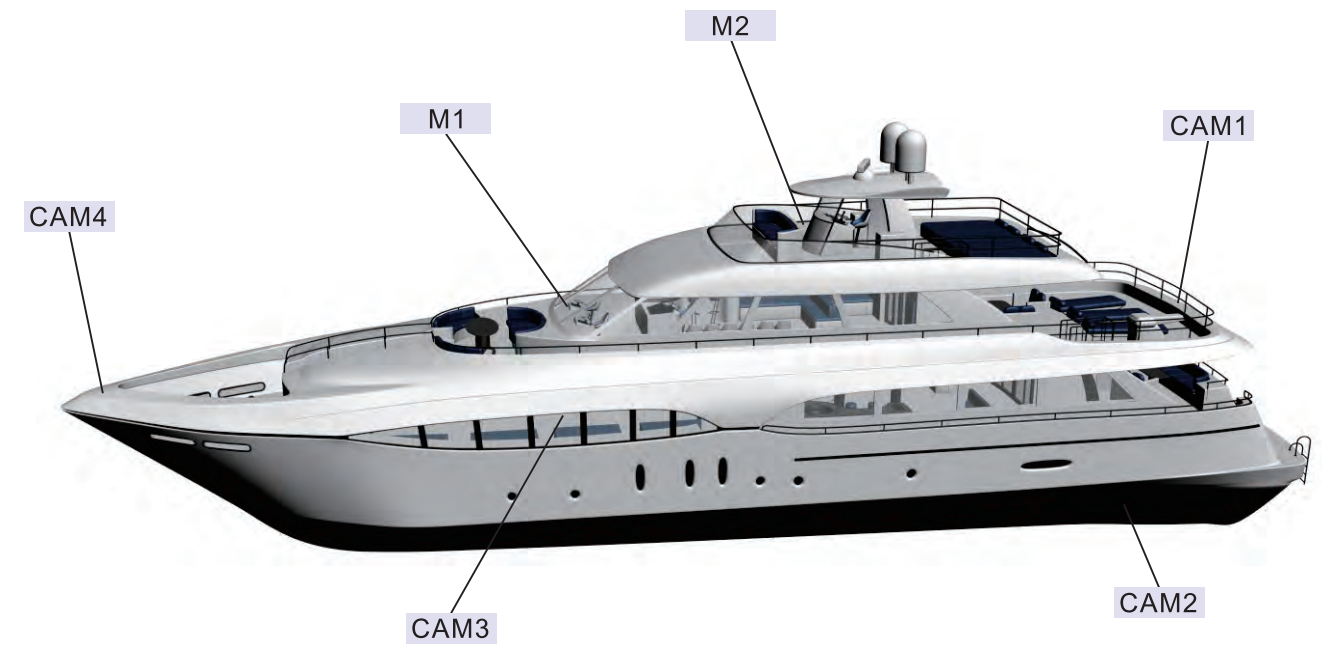
Sinusoidal excitation(peak):	600Kg.f
Random excitation force(rms):	600Kg.f
Shock force(peak):	1200Kg.f
Frequency Range:	DC~3000Hz
Maximum displacement:	51mm p-p
Maximum speed:	1.8m/s
Maximum acceleration:	100G(980m/s ²)
First order resonant frequency:	3200Hz±5%





- VT-M9176 7" Monitor ■ VT-M9621 12.3" Mirror Monitor ■ VT-C9181 Side View Camera
- VT-C9180 Color Shutter Camera ■ VT-C6506 Color View Camera

Application









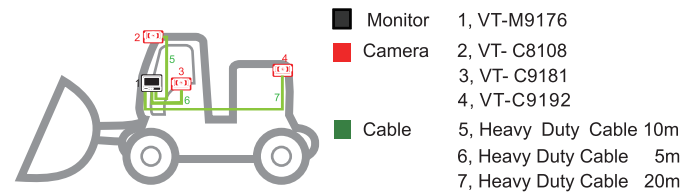
VT-M9176 VT-C8108 VT-C9192 VT-C9181

The Bulldozer

VT-C9181: The driver can see the side of the blind spot to make the load more accurately.

VT-C9192: You can see the blind spots while reversing to make driving safer.

VT-C8108: The driver can see the front of the blind spot to make the load more accurately.







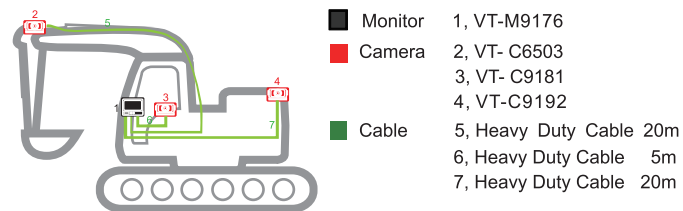

VT-M9176 VT-C9192 VT-C6503 VT-C9181

The Loader

VT-C6503: The driver can see the excavator digging, lifting, etc., to avoid danger.

VT-C9192: You can see the blind spots while reversing to make driving safer.

VT-C9181: The driver can see the side of the blind spot to make the load more accurately.





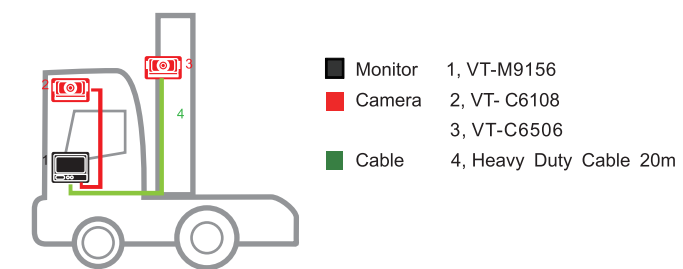


VT-M9156 VT-C6506 VT-C6108

The Forklift

VT-C6108: The driver can see the front of the blind spot to make the load more accurately.

VT-C6506: You can see the blind spots while reversing to make driving safer.





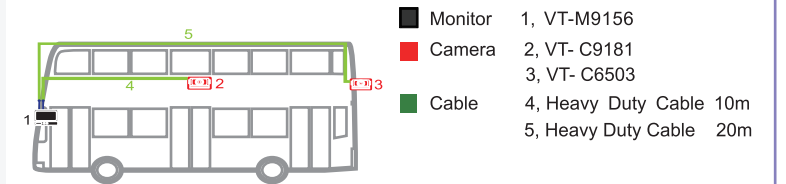


VT-M9156 VT-C6503 VT-C9181

The Bus

VT-C9181: In the turning, the driver can see the side of the blind spots to making driving safer.

VT-C6503: You can see the blind spots while reversing to make driving safer.









VT-M9176 VT-C8108 VT-C6503 VT-C9181 VT-C9180

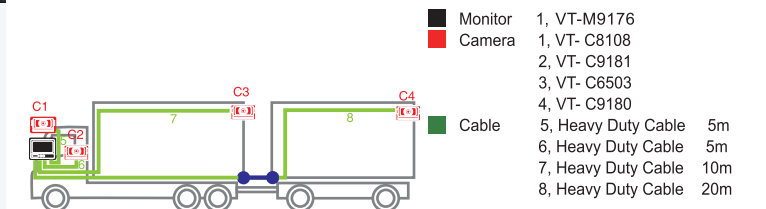
The Trailer Truck

VT-C8108: The driver can see in front of blind spots.

VT-C9181: In the turning, the driver can see the side of the blind spots to making driving safer.

VT-C6503: You can see the blind spots while reversing. To make driving safer.

VT-C9180: You can see the blind spots while reversing. To make driving safer.






VT-M3118 VT-C9180

The Clean Car

VT-C9180: The driver can see the excavator digging, lifting, etc., to avoid danger.

- Monitor 1, VT-M3118
- Camera 2, VT-C9180
- Cable 3, Heavy Duty Cable 10m

