

360°

**BIRD VIEW
SECURITY SYSTEM**

fast-track entrance

CWX-01

DIRECTORY

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Disclaimer

The product is mainly for vehicle drivers provide a full range of vehicle around the road show pictures, safe driving in auxiliary sail to better, but because of the complexity of the road and the driver of different driving habits, the company is not undertaken with the products of the vehicle under any circumstances at the time of the traffic accident related joint and several liability, the driver, please drive carefully, comply with the traffic safety regulations!

Product description

This product is an advanced assisted driving system integrating panoramic (around 360° without dead Angle) driving recording (video recording), starting, reversing and parking image environment observation.










When the vehicle is starting and reversing, the driver can not only observe the blind area of sight through the front and rear camera, but also see the real-time situation in front and left and right directions on the panoramic image, so as to avoid causing harm to children and small animals in the blind area of sight in front and rear of the vehicle and scratch and touch the car.

When parking and entering the parking space, the vehicle can be observed in a full range of time-real images, with the addition of the astern sign line, and can grasp the distance between the vehicle and the vehicle and obstacles, so as to avoid scratching other vehicles and obstacles.

During the driving process, the product is recorded in real time. Therefore, whether accidental scratches or deliberate "racketeer fraud" can be taken as its own strong evidence and responsibilities can be well divided.

When encountering complicated road conditions, narrow roads, heavy traffic and many people, real-time images around the vehicle can be viewed in real time, which increases the driving safety factor.

Packing list

Name	No	picture	Name	No	picture
Main box	1 set		camera	4 pcs	
remote	1 piece		Power wire	1items	
Remote receiver	1 items		Video output wire	1items	
Camera extension wire	4 items		drill	1pcs	
Warranty card	1 book				

Attention

1. This system is a driver-assisted product, which cannot completely replace human eye observation. Excessive reliance on it may cause traffic accidents.
2. Since the camera is a wide-angle lens, the display image is somewhat different from the real environment, and the actual distance cannot be determined entirely by the image.
3. Please do not operate this system during high-speed driving to avoid distraction.
4. Each output interface of the system should not be connected with attachments and devices that have not been confirmed by our company.

specification

Name	Spec	Name	Spec
language	Simplified Chinese/ Traditional Chinese/English	Working voltage	DC10-18V
Input video format	AHD	Working current	380-480mA(12V)
Image	H.264	Working temperatu	-30-75 °C
Angle of view	360°(F/R/L/R)	The output	HD/Super HD
Storage capacity	2-64GB U disk cycle cover save	Trigger voltage	9-12V
Input video format	Single channel composite video output /VGA	cold time	8.5 second
Input signal	4-way 720P video input	software upgrade	support U disk automatic upgrade
Splicing fine-tuning move	zoom, rotate, push - straight	configuration	save backup and restore configuration

Installation instructions

1, preparation,

A. Verify whether the display interface is available: Check whether the video interface of the vehicle display is available and whether it supports analog visual frequency input.

B. Verify whether the control line meets the requirements: check whether there is a video detection line (also known as reverse detection line, signal control line). If not, test whether it supports analog video input first. If the automobile display adopts bus control, but the reverse display can be used or additional control box can be installed, other functions can also be achieved through AV or AUX port.

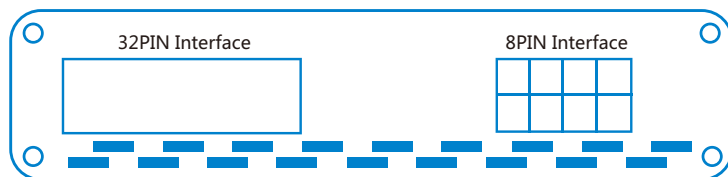
C. Location selection of the host machine: the space is large enough and easy to be ventilated. Avoid placing the machine in a closed and narrow place.

D. Setting site selection: it is required that the sunlight is weak and uniform, there is no strong reflection, and the ground is flat.

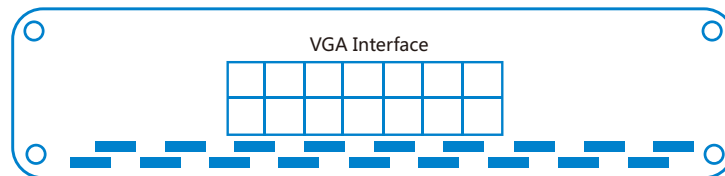
E. Disassembly and assembly tools: special screwdriver, interior modification tools, special test pens for automobiles, advanced insulation tape, for all purposes Table, electric opener, etc.

2, Wiring

Host interface diagram (front and rear)



VGA Interface



Wiring table:

Wire	Wire pic	Connection methods
power wire		Yellow battery long B+, red wire ACC, black grounding (near DVD grounding wire)
Remote receiver		The remote receiver is inserted into the remote control interface and placed where the line of sight can be seen
Camera extension		Left, right and rear extension lines with short white lines, no short white front lensLine; Insert "left", "right", "after" and "before" interfaces respectively.The short white line on the left and right video extension line is connected to the left and right turn signal respectivelyOn the signal line, the small white line on the rear video extension line is connected to the backlight signal line
Video output wire		Video output interface for the standard yellow video lotus plug, directly insertedIn the video input interface; Short white line to DVD back check line. ifThere is a aster check line. Please disconnect it.

3. Install and debug the camera

A. Rear-view camera: The universall rear-view camera is installed in the rear of the car as far as possible toward the center, and is higher than the ground height 50cm, the image on the display screen should be able to see the car body, the special camera needs to be customized.

B. Front view camera: The general camera is installed in the center of the front middle network of the car, and the height above the ground is more than 50cm. It is appropriate to adjust the Angle to see the car body (the special camera needs to be customized).

C. Left-view camera: The installation position of general left-view camera needs to be fixed with holes punched in the bottom of the left rearview mirror of the car (special camera needs to be customized).

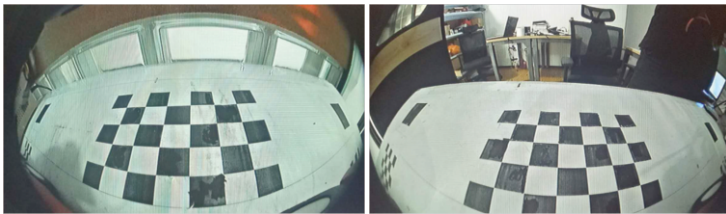
D. Right view camera: The installation position of general right view camera needs to be fixed with holes punched in the bottom of the right rearview mirror of the car (special camera needs to be customized)





Front-view camera: During installation, the camera should shoot up to the ground as far as possible, and at the same time, it should take less pictures of the vehicle itself, so that the picture is on the ground as far as possible; The camera should be parallel to the horizontal line; The camera should be mounted higher than the license plate, as shown above

Rear-view camera: try to install it in the middle of the license plate light. The camera should be parallel to the horizontal line. For example, the camera used for special vehicles should be directly buckled on the license plate light, as shown in the figure above:



Left and right camera: the left and right cameras are vertically illuminated on the ground through the oblique circles above the camera, and the camera head should be parallel to the horizontal line. Note that the vehicle should be displayed in the horizontal center of the image to get the best stitching effect. The display is as shown in the figure above:

4. Panoramic calibration

A. Press OK to enter the main menu and click Panorama adjustment

The corresponding camera lens type selected (8255.31006.2706.6007.8055)



B. Enter automatic splicing (as shown in the figure)

Input the actual measured car width, length, and left and right offset distance. Unit (cm) Front and rear lens suits, reverse refers to the front and rear lens image rotation 180 degrees.

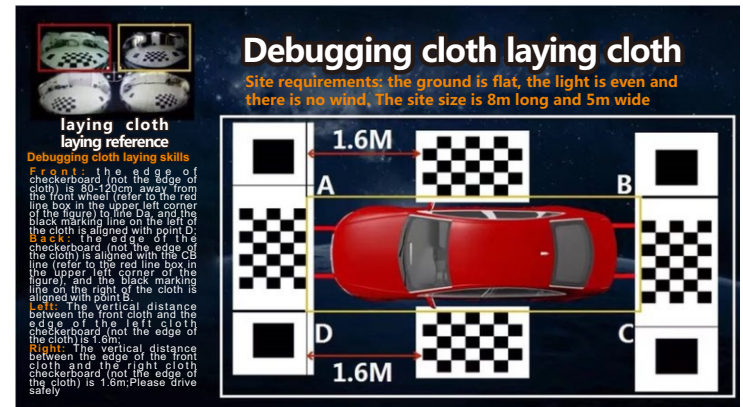
Noun definition

Conductor: The distance between the front splice and the back splice

width: The distance between two pieces of cloth

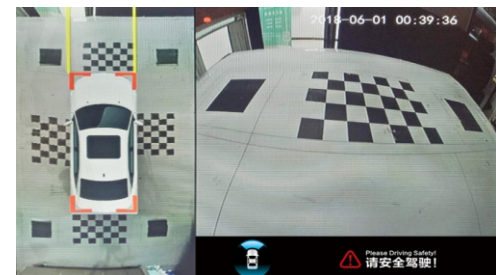
offset: The front mosaics of the sermon and the middle mosaics of the distance between

themLens flip/suit: The lens image is rotated 180 degrees (if the front camera or the rear camera is mounted upside down or upside down during loading, the lens can be mounted backwards; For example, the actual length of the car is 520cm and the width of the car is 190cm. The deviation is 120cm. Enter the number 520,190,120 into the corresponding position

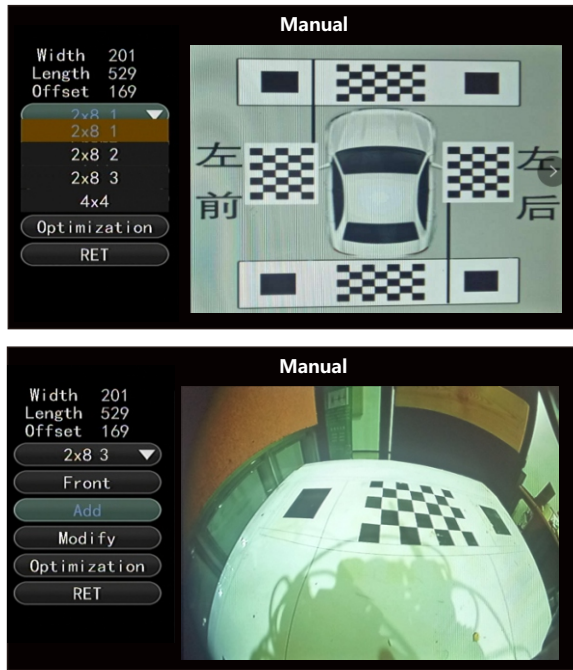


Layout: The front stitching cloth should be placed 30cm away from the car body and kept parallel; the rear stitching cloth should be kept 30cm away from the car body and kept parallel; the left stitching cloth should be kept parallel with the ruler line of the front stitching cloth; the right stitching cloth should be kept parallel with the ruler line of the back stitching cloth. After confirming the placement of the four pieces of cloth, click the automatic splicing.

Effect picture after automatic calibration OK:



C. Manually splicing items (as shown in the figure)



Noun definition

Front/back/left/right of the lens: add identification point to the selected lens position by manual splicing: put the cursor + recognition position on the splicing point. (2 big cloth point 8 1-3 each lens of the splicing points in total8), 4 small cloth points, 4 stitching points for each lens

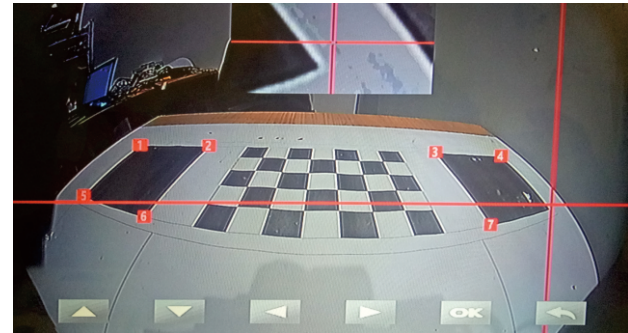
Change identification point: Change the wrong place point. The splicing cloth placed by the real car corresponds to the cloth type selection of the splicing program (2 big cloth 8.1.2 big cloth 8.2.2 big cloth

There are 4 kinds of stitching cloth (as shown in the figure).



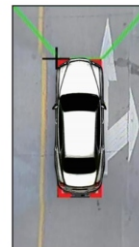
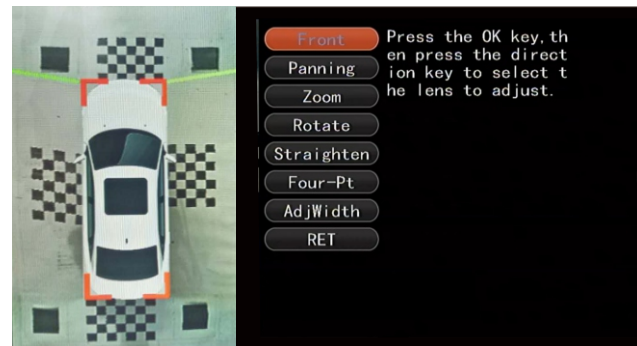
Manual stitching method: input the distance of car length and car width to the corresponding position, then select the actual stitching cloth type, and enter it to add the identification item.

The method of adding identification points is shown in Figure 2 (point 8)



The sequence of placement points is first up and then down. There are 4 lenses in the above sequence, each lens has 8 identification points (front lens, rear lens, left lens, right lens). Click the splicing after the identification of the 4 lenses.

Select "Auto Splicing" and press [OK] to make automatic splicing. If the splicing is unsuccessful, there will be a prompt. After the splicing is successful, enter "Display Adjustment"/" Fine Adjustment "to watch the splicing effect and fine-tune the splicing.



left corner of the front view to the right



left corner is not good Press the right arrow key to stretch the lower



Press the right arrow key to stretch the top left cross of the front view to the right Adjust to a satisfactory



position and stop operation

Fine adjustment, due to the pane cloth put not parallel, there was a slight rotation, distance measurement error, the lens processing poor dispersion error reason, for the first time stitching images may have tiny displacement, bending, deflection and deformation, etc., can be through the menu on the fine fine adjustment] 【 correction, including position image translation, scaling, rotation, bending line straight adjustment (in the case of rectangular shape into trapezoidal). As shown in the figure above: after successful connection, enter "Display Adjustment"/" Fine Adjustment "to watch the stitching effect and fine-tune the stitching.

Menu function instructions

In the working mode (left), press the "OK" key of the remote control to enter the main menu (right)



The main menu contains basic Settings, driving record, control Settings, image Settings, panoramic adjustment, storage management, system maintenance 6.

Note: The red dot indicates the video recording, indicating that the video is being recorded; After 6 seconds in the working mode and non-triggered state, press double flash twice quickly to turn on or off the normal display function. Select "Basic Settings" and press "OK" to enter the setting interface:



Press remote [▲] or [▼] to move options.

Here you can set the language used by the system, ruler line, power-on display, control Settings, protocol type, system time.

Select "System Language" and press "OK" to set.

After selecting the language,

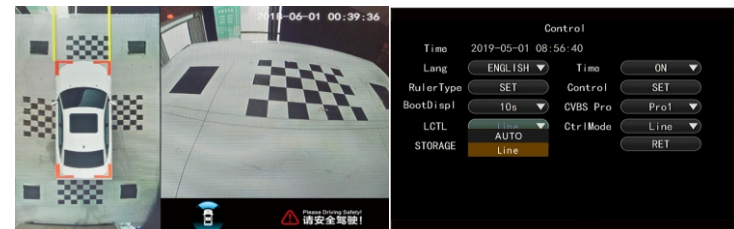
restart the system to take effect. Select "Switch video" and press "OK" to set.



Function description:

[Image setting] : The functions include mode position, output mode, mode selection, dual screen symmetry, delay shutdown, color management, display adjustment, touch calibration. Automatic control of video output according to left and right steering signals and astern signals; Turn off the display video output after no such signal for 15 seconds, leaving the display to other devices (such as navigation), but the system will keep recording. This setting is suitable for multiple devices to share the display.

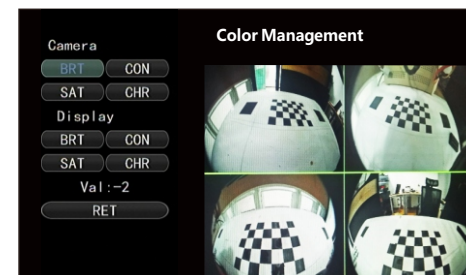
[Display all the time] : the video signal is output all the time, and the display screen shows the camera video all the time. This setting is suitable for the special use of the display screen for this system.



description:

[Panorama + original image] : The system enters the panorama + original image video output mode. In this mode, the left side of the display screen is 360 panorama, and the right side outputs the original image of front, back, left and right respectively according to the steering signal.

Select "Color Adjustment" and press "OK" to set.



Function description:

[Brightness] : the same as the lens input image, without adjustment, the standard brightness is 50.

[Contrast] : Image brightness increased, standard contrast 55.

[Saturation] : Filter the image, details will be reduced, noise will be reduced, standard saturation 55.

[Chroma] : as the sharpness of the image increases, the details will increase. The standard chroma is 61. Select "System Time" and press "OK" to set.



description:

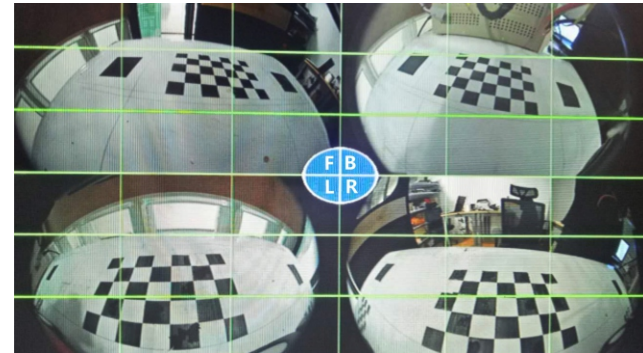
【System time】 : Set the system running time, which is also the basic time in the video files; According to the 【▲】 Increasing Numbers, bring about 【▼】 reduce Numbers, 【◀】 【▶】 digital mobile needs to be changed.

Select 【Video Playback】 and press 【OK】 to enter.



description: the function includes the previous page, the next page, play, lock, unlock, deleteView video files, including record start time, record length.

Press 【】 or 【】 to switch the video recording group (front, back, left, right 4 lens recording group), and press 【OK】 to play.



sidesIn play state (e.g., ShangZuoTu), press 【▲】 【▼】 【◀】 【▶】 key play video "and" single road respectively; Press 【Return】 to exit the single-channel video playback; Press the "Back" key in the group play state to return to the group video file browsing menu.

Select 【Storage Management】 and press 【OK】 to enter the Settings menu.

Function description:

【Format usb Flash drive】 : Format the usb flash drive to clear all information

【Pop up the U disk】 : pop up the U disk, then pull out the U disk, so as not to lose the parameter file

【Clarity】 : Default standard.

【Video format】 : PAL or NTSC can be selected and the default is NTSC720*480



[Export configuration] : Export all kinds of configuration and splicing data and save it to the FOLDER "auto360_config" on the USB flash drive for backup. If the folder "auto360_config" exists in the USB flash drive and is exported, please change the folder name by yourself to avoid other backup data being overwritten.

[Import configuration] : The splicing parameters and splicing data backed up by the folder "auto360_config" on the U disk are imported into the current system for parallel operation.

System restart: Reboot the system to make the changed Settings take effect.



【Panorama adjustment】 , press 【OK】 key to enter the setting menu.

Cautions

1. The machine may be permanently damaged by rain, water and fall.
2. Please turn off the engine before you dial out the USB flash drive and pull out the key for more than 10 seconds, otherwise the video file may be damaged.
3. please do not grasp the cable to pull hard, should grasp the joint plug and plug, otherwise it may damage the cable or even damage the car circuit.
4. The installation of this machine needs professional personnel and tools. It is forbidden for non-professional personnel to install, or circuit damage may be caused.
5. The maintenance service of the machine is uniformly provided by the distributor. If you have any questions, please contact the local distributor.

Warranty card

(Dealer archive)

Name : _____ Model No : _____

Mobile No : _____ Serial No : _____

Date : _____

Company Name : _____

Company address : _____

Service No : _____

Warranty terms

1. The goods shall be replaced within three months from the date of sale. In case of failure, the goods shall be kept intact, free from scratch and deformation, and the same type of goods can be replaced.

2. The product is guaranteed for one year from the date of sale, and the maintenance is lifelong.

3. Artificial damage, self dismantling machine, unsealing label and water intrusion are not covered by the warranty.

Warranty card

(user archive)

Name : _____ Model No : _____

Mobile No : _____ Serial No : _____

Date : _____

Company Name : _____

Company address : _____

Service No : _____

Warranty terms

1. The goods shall be replaced within three months from the date of sale. In case of failure, the goods shall be kept intact, free from scratch and deformation, and the same type of goods can be replaced.

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