



VBV-360-10000-AI High Definition Backeye[®]360 System with AI

Operation Instructions



Please read this manual thoroughly before operating the unit and keep it for future reference.

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1 Precautions

Storage and Keeping

- 1) Do not expose the System to excessive heat or cold. The storage temperature of this device is $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$, and the operating temperature is $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$.
- 2) Never use this device in environments with excessive moisture, dust or smoke.
- 3) Avoid dropping or striking this device.
- 4) Avoid using this device in enclosed spaces, areas with excessive vibration or subject to severe impacts.
- 5) Never puncture, scratch or use abrasive cleaning materials on this device.
- 6) Do not place cables where they may be pinched or stepped on.
- 7) The ECU is not designed to be waterproof.

Operating Precautions

- 1) The device may be powered by a 12 or 24 Volt automotive battery or vehicle electrical system.
- 2) Make sure all cables are connected properly. Observe polarity. Improper cable connections may damage the system. Remove the power cable connections when you do not intend to use the unit.





Warning!

1. The opening of the case should be by professionals.
2. Do not watch the video while driving unless you are monitoring the camera display.

1 Precautions *Continued*

- 1) Remove all the cable connections from the control box before cleaning the device.
- 2) Use a mild household detergent and clean the unit with a slightly damp, soft cloth.
- 3) Never use strong solvents such as thinner or benzine, as they might damage the finish of the device.

	Caution	
	Risk of electric shock Do not open	
<p>Caution: to reduce the risk of electric shock, Do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.</p>		



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



This symbol is intended to alert the user not to dispose of electrical and electronic equipment.

CAUTION

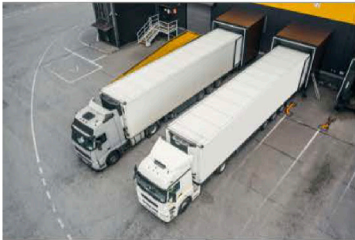
You are cautioned that any changes or modifications not expressly approved in this manual could void your warranty and necessitate expensive repairs.

2 Product Features

2.1 Basic Features

- 1) Simulated 360° Birdseye View
- 2) Support 4 pcs 190° FHD 1080P wide-angle fisheye cameras inputs, horizontal view angle>170°, maximum support 4CH input.
- 3) High performance H.264 video encoding / decoding for high quality image blending.
- 4) Simplified calibration procedures.
- 5) High definition 1080P video output and multiple formats of video signal output.
- 6) Switches to reversing image when reverse wire is triggered.
- 7) Switches to left / right image when left / right wire is triggered.
- 8) Compatible with the Brigade MDR.

2.2 Applications



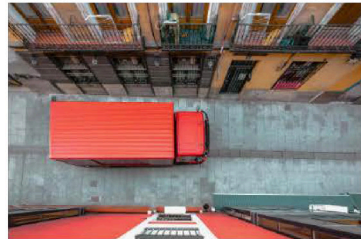
Reverse Parking



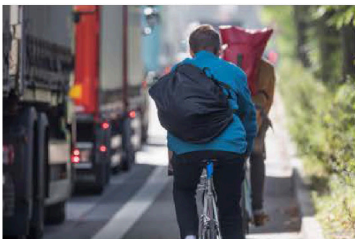
Side Parking



Congested Road



Narrow Road



Blind Spot

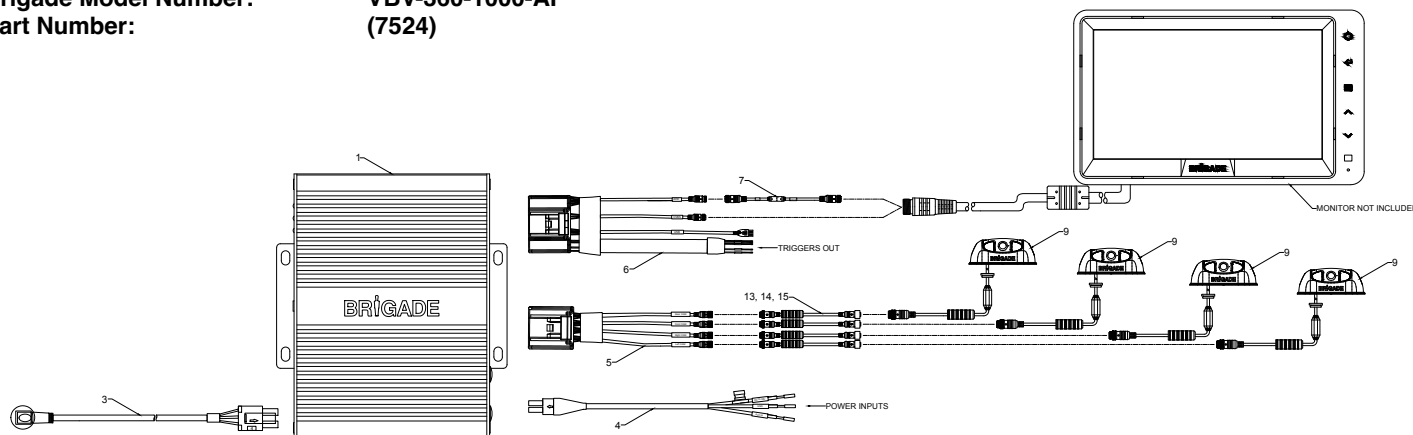


Mobile Digital Recorder

Product Specification



Brigade Model Number: VBV-360-1000-AI
Part Number: (7524)



VBV-360-1000-AI (7524) CONTAINS:			
No.	Model No.	Description	Qty
1	VBV-360-1000-ECU-AI	Backeye@360 VBV-360-1000-ECU	1
2	2mm Allen Key	2mm Allen Key	1 (NOT SHOWN)
3	VBV-360-1000-IR	Backeye@360 IR receiver	1
4	VBV-360-1000-ECU-PH	Backeye@360 Power Harness	1
5	VBV-360-1000-ECU-VI	Backeye@360 Video Input Harness	1
6	VBV-360-1000-ECU-VO	Backeye@360 VBV-360-1000-Video Output Harness	1
7	VBV-360-1000-ECU-VOC	Backeye@360 VBV-360-1000-Video Output Cable	1
8	VBV-360-AI-RC	Backeye@360 VBV-360-1000-AI, Remote control	1 (NOT SHOWN)
9	VBV-2240C-AI-D04-C	Backeye@360 VBV-360-1000-AI, AI-FHD Camera	4
10	VBV-222XC-AI-DVS-RM	Rubber mounting mat for VBV-2220C-AI-DVS & VBV-2240C-AI-D04	1 (NOT SHOWN)
11	ST4.2*25 screw	2x ST4.2*25 screw	1 (NOT SHOWN)
12	2.5mm Allen Key	2.5mm Allen Key	1 (NOT SHOWN)
13	VBV-AI820	20 Metre 8 pin to 8 pin extension cable	1
13	VBV-AI810	10 Metre 8 pin to 8 pin extension cable	2
13	VBV-AI805	5 Metre 8 pin to 8 pin extension cable	1

Environmental Specifications:

- Vibration Rating: 2.8g (Vertical Ax-is - 32hrs)
- Camera + Connector IP Rating: IP69K and Connector IP66
- ECU IP Rating: Not rated
- Operating Temperature: -30° to +70°C
- Storage Temperature: -40° to +85°C
- Operating Humidity: 65% @ 25°C

Approved Standards:

- E-Mark - (UNECE Reg. 10 Rev. 06)
- CE - (EN 50498:2010)
- FCC - (47 CFR Part 15 Subpart B, Class A)
- ICES - Industry Canada (003:2016, Issue 6, Class A)
- Ingress Protection - (ISO 20653:2013)
- RoHS

Technical Specifications:

- Operating Voltage: +10/32V D.C.
- Current Consumption: ≤ 2.2A @12V
- Power Consumption: ≤ 26W @12V
- TV System: AHD (30 fps)
- CVBS (25 fps/30 fps)
- Output Resolution: AHD - 1920 x 1080
- CVBS - 720 x 480
- Camera Resolution: 1920 x 1080
- Camera Viewing Angle: 190°(H) x 130°(V) 4
- Number of Video Inputs: 2
- Number of Video Outputs: 4
- Number of Trigger Inputs: 0.1 Lux
- Required Illumination: 1.0 Vp-p / 75Ω
- Video Output: 140 x 122.1 x 40mm
- ECU Overall Dimensions: 139.75 x 63.2 x 53.5mm
- Camera Overall Dimensions: ECU 1.3kg,
- System Assembled Weight: Camera 0.57kg
- Cable Thickness:
- Power Cable: 20 AWG
- Trigger Cable: 26 AWG

Technical Specifications Continued:

- Length of Cable:
- Camera: 400mm
- ECU Power: 1000mm
- ECU Triggers: 1000mm
- ECU Video Output: 300mm
- ECU and Camera Housing Material: Cast Aluminium Alloy
- Cast Aluminium Alloy ECU Colour: Black
- Camera Housing Colour: Black

Features:

- Choice of two video quality output formats:
- High definition in AHD
- Standard - definition in CVBS (PAL/NTSC)
- 360° visibility using ultra wide viewing angle cameras
- Customisable 360° views: 2D/3D Display Mode, Front and rear crossing traffic views, Customisable vehicle position in 360° view

Kit Contents:

- 1x Backeye@360 ECU - VBV-360-1000-ECU
- 4x Backeye@360 Camera - VBV-2240C-AI-D04-C
- 1x Backeye@360 IR receiver - VBV-360-1000-IR
- 1x Backeye@360 Power Harness - VBV-360-1000-ECU-PH
- 1x Backeye@360 Video Input Harness - VBV-360-1000-ECU-VI
- 1x Backeye@360 Video Output Harness - VBV-360-1000-ECU-VO
- 1x Backeye@360 Video Output Cable - VBV-360-1000-ECU-VOC
- 1x Backeye@360 Remote control - VBV-360-AI-RC
- 1x 5M 8 pin to 8 pin extension cable - VBV-AI805
- 2x 10M 8 pin to 8 pin extension cable - VBV-AI810
- 1x 20M 8 pin to 8 pin extension cable - VBV-AI820
- Monitor optional extra (Not included)

Contact: +44 (0) 1322 420300
www.brigade-electronics.com

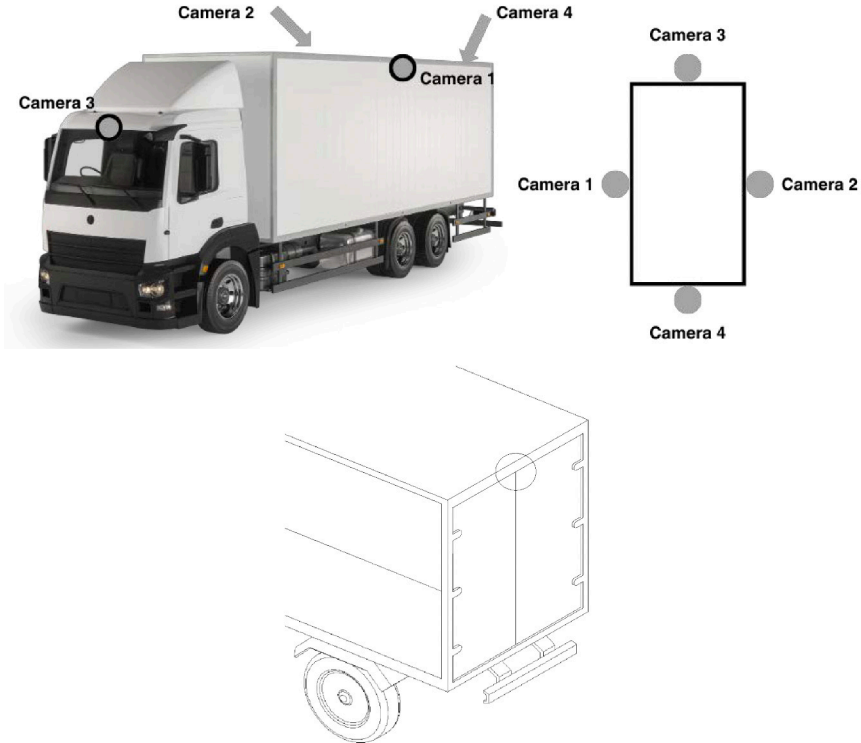
Specifications subject to change without notice

4 Installation of System Hardware

Step 1: Cable connection in vehicle body

Step 2: Camera Installation

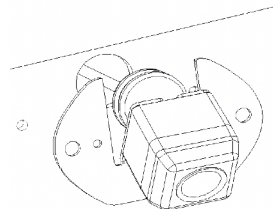
VBV-2240C-AI-D04-C Camera Installation Position



Note:

- a) The higher the installation, the better.
- b) Installing all cameras at the same height will give a better result than when cameras are installed at varying heights.

Adjust the base so that the hole position is consistent with the hole position on the vehicle. When the hole position is consistent with the hole position on the vehicle, stick the camera on the vehicle.



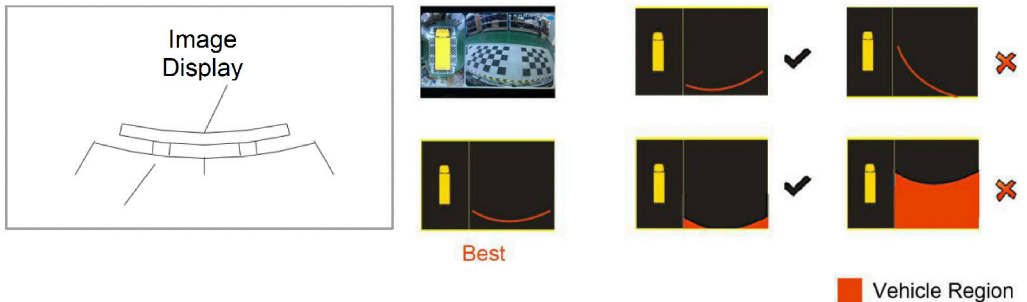
4 Installation of System Hardware Continued

Step 3: ECU

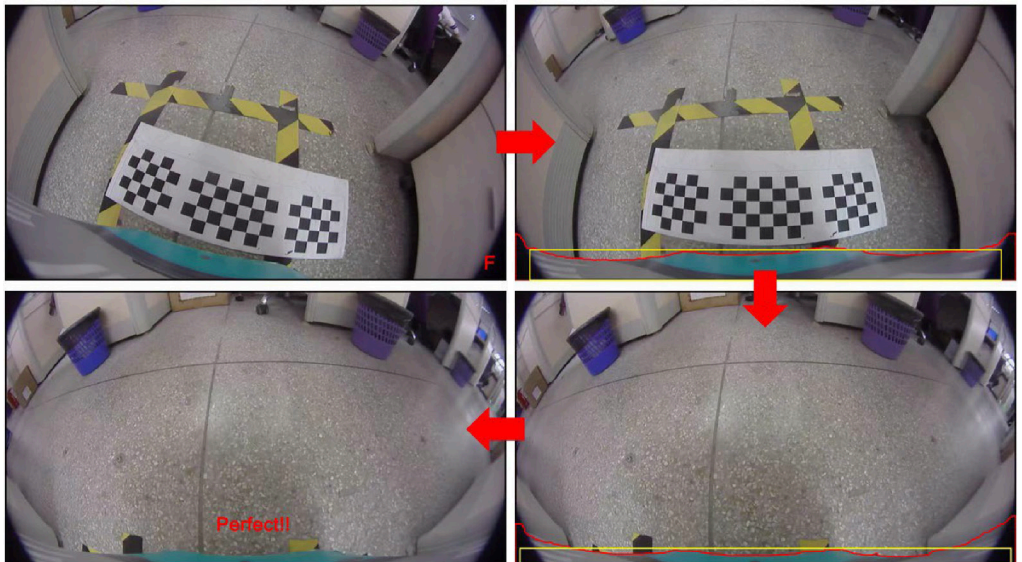
- 1) The ECU should be installed in a well ventilated area
- 2) Connect the ECU, please refer to “System diagram” for details.
- 3) Power on and test the wiring.
- 4) Perform basic functional tests.

Step 4: Adjustments of camera viewing angles of VBV-2240C-AI-D04-C

- 1) Adjust the camera viewing angle so that you only just a small part of the vehicle panel.



Adjustment example:



- 2) Cameras installation.

4 Installation of System Hardware **Continued**

Step 5: Set Up Image Stitching

- 1) Adjust the viewing angle of cameras used for calibration.
- 2) Please refer to '6.4 AVM interface' for more detailed information.

Step 6: Fasten Cameras and Cable

- 1) Fix the main box and cable to make the camera installation stable.

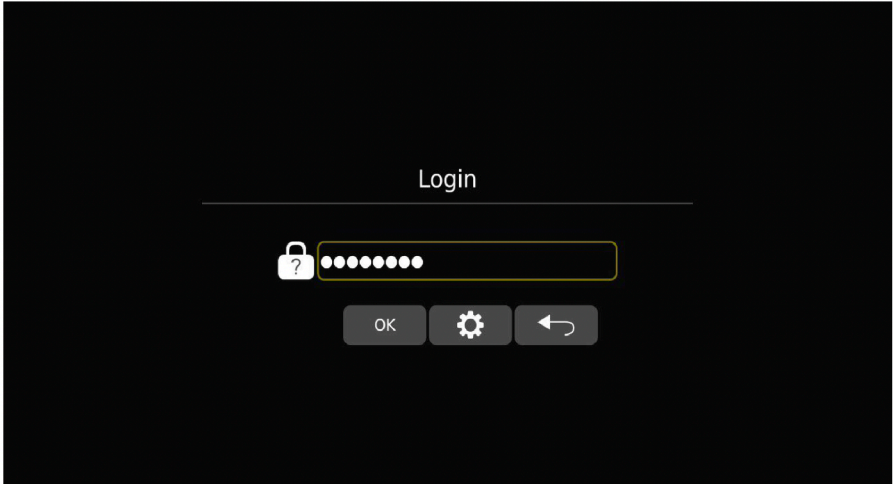
5 Remote Control Operation

- **ENTER:** Enter main menu or confirm menu selection.
- **ESC:** Exit main menu interface / return to main menu interface.
- **◀ ▶:** Left and right buttons are used to switch the left and right single view in the main interface; it is also used to add and subtract settings in the menu page.
- **▲ ▼:** Up and down keys, shift image channel to front/back view. When in the main interface, in the menu page, it is used to switch left and right options.
- **SHIFT:** Shifts current display mode to quad-view, when in main menu It is used for switching menu selection in menu.
- **POWER:** Turn on / off video display.
- **Number button 0-9:** For inputting numeric information.
- **CLEAR:** Delete button, delete an individual character.
- **MULTI:** Switch to full screen surround view in the main interface.
- **PTZ:** Enter decimal point



6 Operation Instruction of Main Menu Interface

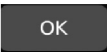
6.1 User Administration Login



Feature description



: Input password (default password is 88888888)



: Login

confirmation



:

Modify password.



: ESC key, return to the last menu.

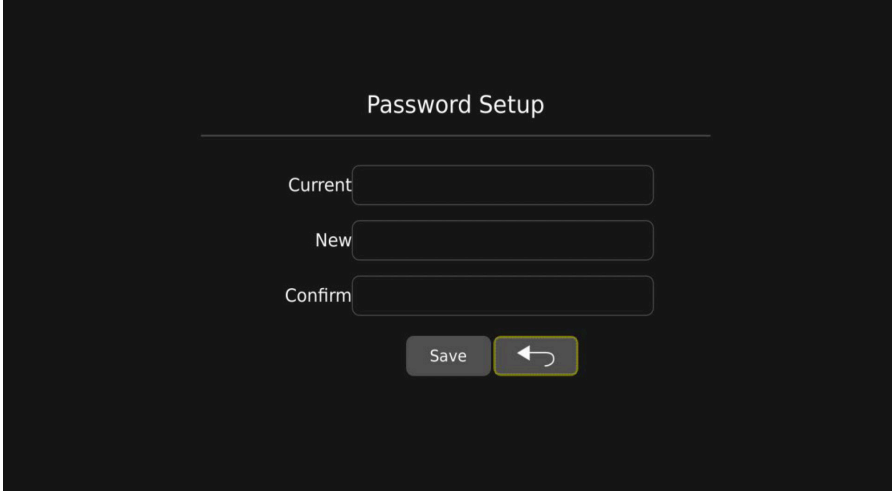
Notice:

- 1) Initial password: 88888888. The password can be composed of numbers and letters, and the password length supports up to 16 characters. If you forget the password, please contact the manufacturer to apply for the key, and you can do the initialization operation, please note this process may take a few days.
- 2) After the password is logged in, there is no need to re-enter the password within 10 minutes.

6 Operation Instruction of Main Menu Interface

Continued

Modify Password



Password modification instructions:

Current : Input old password.

New : Input new password.

Confirm : New password.

confirmed.

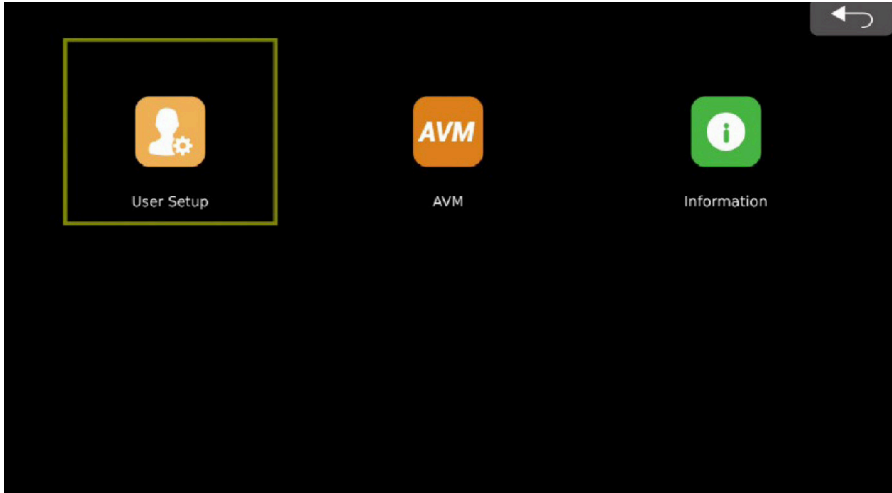
: Save password.

: ESC key (Click this to discard password changes)

6 Operation Instruction of Main Menu Interface

Continued

6.2 Main Menu Interface



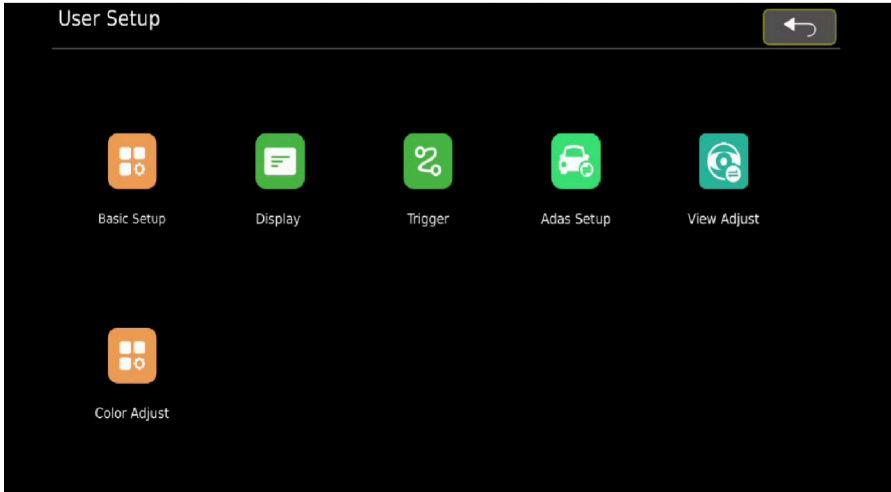
Feature description:

- **User Setup:** Basic function setting, display settings, Trigger set up, ADAS Setup, View Adjust
- **AVM:** Calibration, calibration file import and export, vehicle model switching, view settings and other functions.
- **Information:** Information data, to check and upgrade the version of CPU.

6 Operation Instruction of Main Menu Interface

Continued

6.3 User setup interface



Feature description:

- **Basic Setup:** Basic setup interface.
- **Display:** Display mode setting.
- **Trigger:** Trigger settings.
- **Adas setup:** AI assistance setting.
- **View Adjust:** Adjust image characteristics.
- **Colour Adjust:** Adjust monitor characteristics.

Remote control operation instructions:

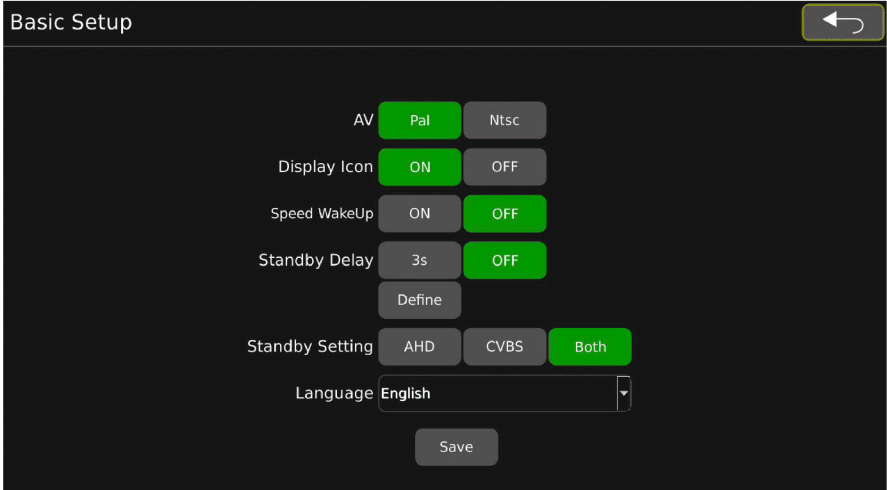
- 1) **SHIFT:** Switch configuration item button.
- 2) **Left / right:** Modify the parameters of the current configuration item.
- 3) **ESC:** Exit the shortcut key and return to the main menu.

Note: It is normal for this system to automatically restart after saving some modified configurations.

6 Operation Instruction of Main Menu Interface

Continued

6.3.1 Basic Setup: Basic setup interface



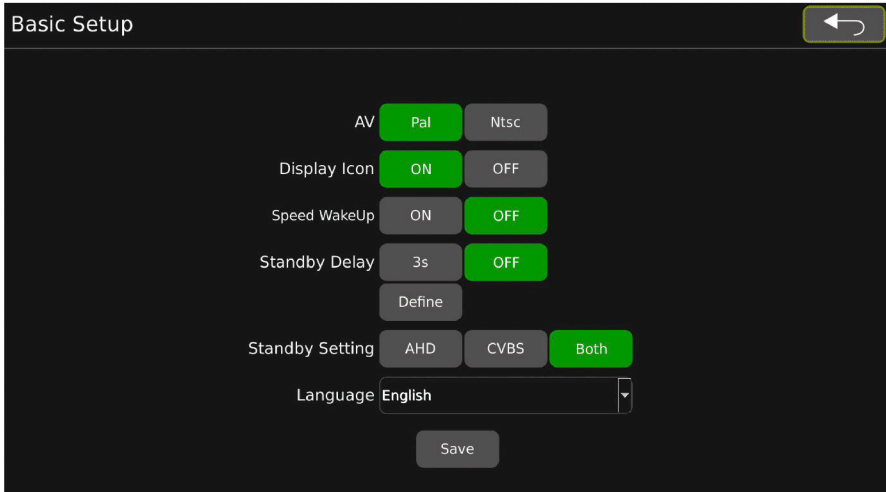
Feature description:

- **AV:** The default standard configuration is PAL. The PAL/NTSC configuration is only for the CVBS output.
- **Standby Delay:** Automatic standby function, the default is **OFF**. When set to 3s the system will automatically enter the standby state after 3s if there is no operation on the system. Set to **OFF**, for no standby delay. Set to Define to customize the configuration Standby time, the configuration range is 3-30s.
- **Standby setting:** Screen standby control function, the default is Both. When set to AHD, in standby, only AHD output will enter the standby state. Set to CVBS, when in standby, only CVBS output will enter the standby state. Set to Both, when in standby, both AHD and CVBS outputs will enter the standby state.
- **Language:** Currently only English is available.

6 Operation Instruction of Main Menu Interface

Continued

6.3.2 Display: Display mode setup



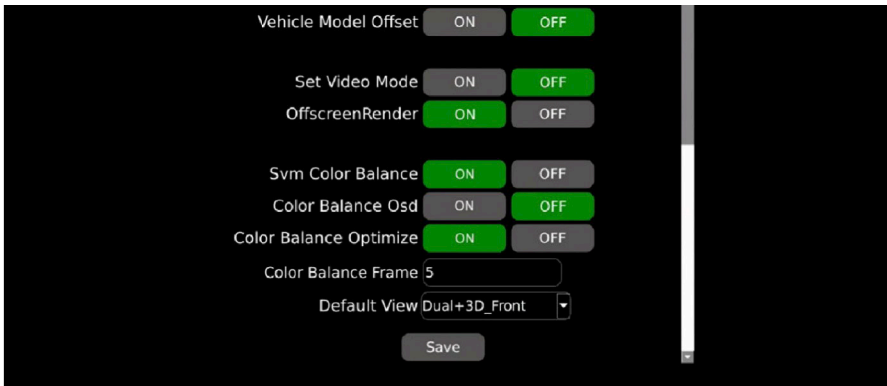
Function Description:

- **SD Screen Adjustment:** CVBS output screen parameter adjustment. Note: re-adjustment is required after switching between NTSC and PAL.
- **Logo Setup:** Replacement of the boot logo.
Note: Currently, it is supported to import a 24-bit deep 1920x1080 BMP format logo image.
- **Blending Region:** When **ON** the blending region will show the image overlap, when off the blending region will not display any overlap.
- **View Cut:** Default is **ON**. When set to **ON**, the individual camera angle of view is slightly cropped, so the camera image fills the screen more. When set to **OFF** the angle of view is not cropped which will show more of the black border.
- **View Mode:** Switch between 2D and 3D viewing modes, (default is 2D). When set to 2D, the screen display effect is 2D surround view + single view; when set to 3D, the screen display effect is 2D surround view + 3D ring view.
- **Display Direction:** Horizontal and vertical screens switching, the default is Horizontal. When set to Horizontal, the screen is rendered in a horizontal screen effect; when set to Vertical, the screen is rendered in a vertical screen effect.
- **View Ratio:** The setting of surround view and single view/3D image ratio, the default is 1:2. When set to 1:2, surround view occupies 1/3 of the entire screen, single view/3D occupies 2/3 of the entire screen; set to 2:3, surround view occupies 2/5 of the entire screen, single view/3D occupies 3/5 of the entire screen; set to 1:1, surround view occupies 1/2 of the entire screen, and single view/3D occupies 1/2 of the entire screen.
- **Compatibility Mode:** Default is **ON**. When set to **ON**, the system will work with a wider variety of monitors, when set to **OFF**, the screen display effect is better, but the system will work with less monitors.

6 Operation Instruction of Main Menu Interface

Continued

- **Instant Rear View:** Default is **OFF**. When set to **OFF**, when the system starts the startup logo will be displayed followed by the panoramic screen. When set to on, a single view (back view) will be displayed after 3 secs of powering on before the panoramic screen is displayed. In otherwords, the back view will be displayed instead of the startup logo).
- **Front Cursor:** Default is **OFF**. When set to **ON**, the front single view displays the cursor; when set to **OFF**, the front single view does not display the cursor.
- **Back Cursor:** Default is **OFF**. When set to **ON**, the back single view displays the cursor; when set to **OFF**, the back single view does not display the cursor.

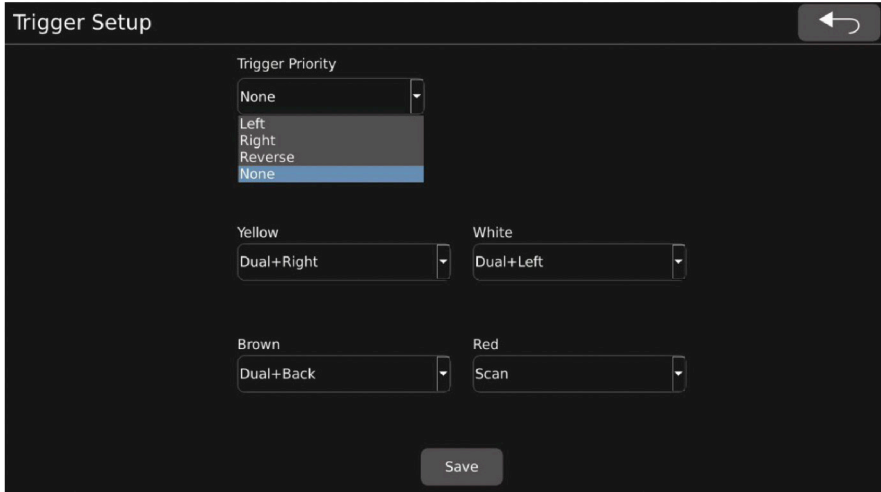


- **Vehicle Model Offset:** Default is **OFF**. When set to **ON**, the rear single-view screen will be displayed about 3s after power-on; if it is set to **OFF**, the boot logo will be displayed about 3s after power-on.
- **Off Screen Render:** Default is **ON** this improves the smoothness of the 3D vehicle rotation view.
- **SVM Colour Balance:** Adjustment for the brightness balance.
- **Colour Balance Osd:** Colour adjustment for the OSD
- **Colour Balance Optimize:** Optimisation setting for colour balance.
- **Colour Balance Frame:** Colour Balance frame setting, default is 5
- **Default View:** Default value is Dual +Front, Dual +Left, Dual +Right, Dual +Front, Dual +Back, Quad.

6 Operation Instruction of Main Menu Interface

Continued

6.3.3 Trigger: The trigger line setting interface.



- **Trigger Priority:** Trigger priority, default value is Reverse. When set to None: 360 view will be displayed as the first triggered view, for example, when the rear line is triggered, the rear view camera is displayed in a 360 view, At this time, if the left trigger is also triggered, the back road camera is still displayed in the panorama. The left side camera will not be displayed until the backroad trigger is deactivated. When set to Reverse: When the rear trigger line is triggered, the panorama will always display the rear camera view. If the current other road is triggered, the rear camera is also triggered, and the panorama will give priority to displaying the rear camera picture. Set to Left/Right in the same way.
- **Yellow:** After the yellow wire is triggered, the configuration of the screen display effect is Dual+Right by default. Configurable: Dual+Left, Dual +Right, Dual +Front, Dual +Back, Scan, Dual +3D Left, Dual +3D Right, Quad, Full Dual, IPC.
- **White:** After the white wire is triggered, the configuration of the screen display effect, the default is Dual+Left. Configurable: Same as Yellow.
- **Brown:** After the brown line is triggered, the configuration of the screen display effect, the default is Dual+Back. Configurable: Same as Yellow.
- **Red:** After the red line is triggered, the configuration of the screen display effect, the default is Scan.

Configurable: Same as Yellow.

- **Save:** Save parameter adjustments.

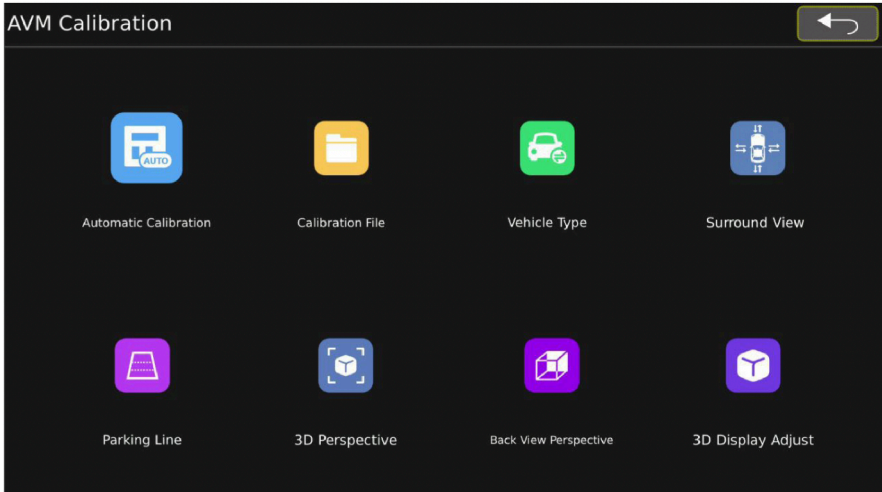


: Exit

6 Operation Instruction of Main Menu Interface

Continued

6.4 AVM Interface



Feature Description:

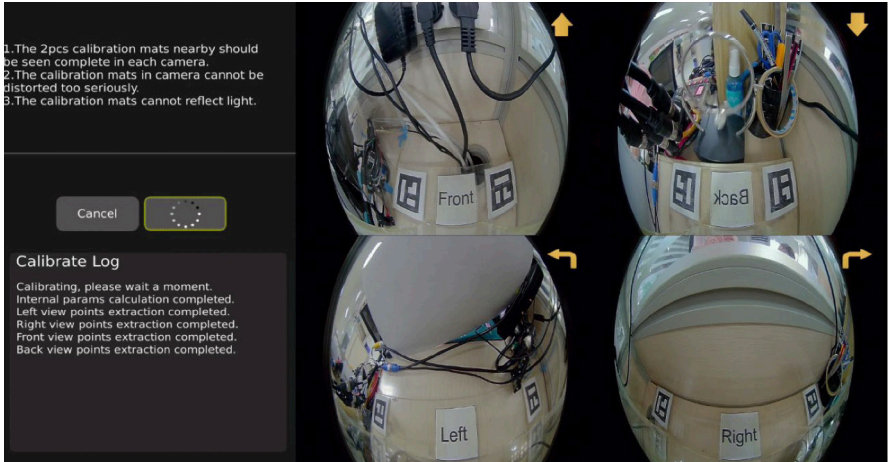
- **Automatic Calibration:** Automatic Calibration, calibrates the view from the 4 cameras.
- **Calibration File:** Export calibration picture resources and import calibration files.
- **Vehicle Type:** Change the car model type page.
- **Surround View:** Overlap angle and surrounding visual range setting.
- **Parking Line:** Reversing cursor adjustment.
- **3D Perspective:** 3D perspective viewpoint setting. (This configuration item is displayed only when the view mode is configured as 3D; if the view mode is configured as 2D, the configuration item is not visible).
- **Back View Perspective:** 3D rear view viewpoint setting. (This configuration item is displayed only when the view mode is configured as 3D; if the view mode is configured as 2D, the configuration item is not visible).
- **3D Display Adjust:** 3D display setting. (This configuration item is displayed only when the view mode is configured as 3D; if the view mode is configured as 2D, the configuration item is in blanking state)

6 Operation Instruction of Main Menu Interface

Continued

6.4.1 Automatic Calibration: Automatic Calibration

1) Calibration Interface

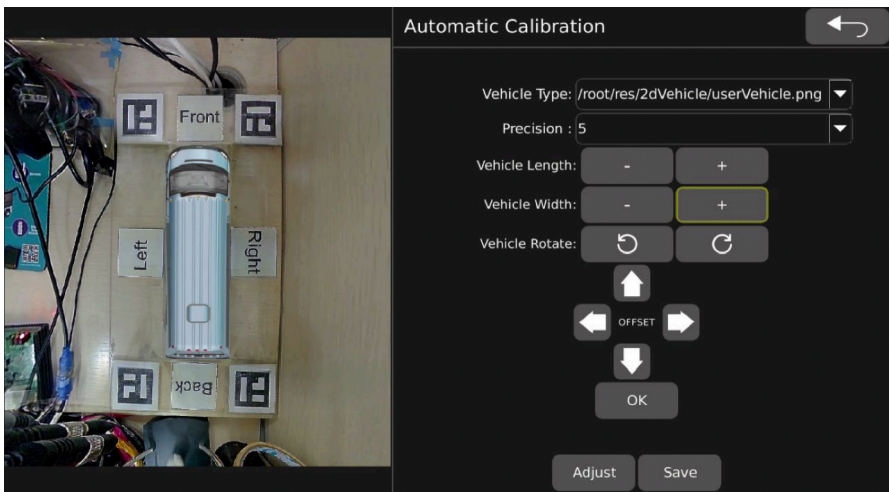


Feature Description:

Precautions:

- 1) Each camera should see the 2 closest mats and cannot be blocked by objects.
- 2) The calibration mats shown in the camera image cannot be severely distorted.
- 3) Reflective light on the calibration mats should be minimal.

2) Adjustment Interface



6 Operation Instruction of Main Menu Interface

Continued

Feature Description:

- **Vehicle Type:** Used to modify the type of vehicle, (note that the vehicle model here is only for auxiliary calibration reference and does not need to be saved)
- **Precision:** Accurate adjustment of vehicle length, width and model movement, default is 1. (optional values 1, 5, 10, 15 pixels).
- **Vehicle Length:** Used for vehicle length adjustment. Click "-" to decrease vehicle length; Click "+" to increase vehicle length
- **Vehicle Width:** Used for vehicle width adjustment, Click "-" to decrease vehicle width; Click "+" to increase vehicle width
- **Vehicle Rotate:** Used for vehicle model rotation (turn left or right).



- : For car model movement (up/down/left/right).



- : Used to update the calibration effect button after adjusting the overall effect.
- **Adjust:** Used to jump to the calibration internal parameter adjustment interface.
- **Save:** Save the calibration results.

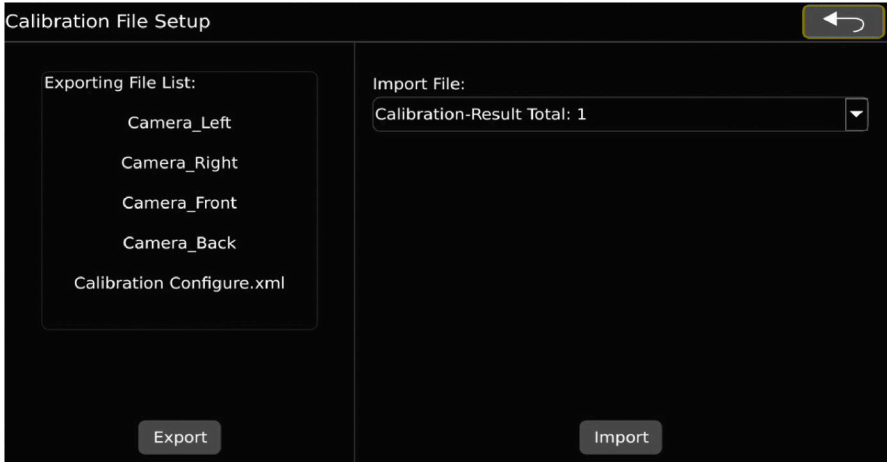
Note:

- 1) It is recommended to use the quad screen display to monitor the installation effect in real time when the camera is installed. It is required that the car body can still be observed at the centre of each screen.
- 2) When calibrating, it is recommended to stick zebra tape (or other marks) close to the periphery of the vehicle and adjust the parameters of the vehicle model until you can see the zebra tape all around.


6 Operation Instruction of Main Menu Interface

Continued

6.4.2 Calibration File: Calibration File



Feature Description: Used for exporting calibration picture and import calibration file.

- **Export:** Export the calibration picture file to USB, the resources include: 4-channel image (The resources will also include xml file if you already finished the calibration)
- **Import File:** List of calibration files. Click to expand the list, all calibration files in the U disk will be displayed in the list, and you can select the file to be imported.
- **Import:** Import selected calibration files.
-  : Exit

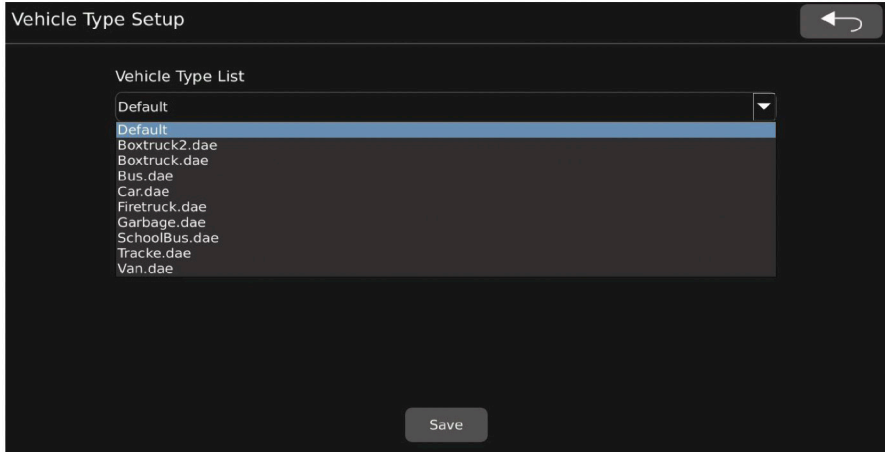
Note:

- 1) As files can only be imported into USB, user must first access the USB before entering this page.
- 2) It is normal for this system to restart after the confirmation of import calibration files.

6 Operation Instruction of Main Menu Interface

Continued

6.4.3 Vehicle Type Setup: Change the car model type page




Feature Description:

- **Vehicle Type List:** Car model list

Note:

In 2D mode: The system comes with 3 car models. (Support importing custom car models)

In 3D mode: The system comes with 9 3D car models. (Currently, the import of custom 3D car models is not supported, but custom 3D car models are supported.)

-  : Save button.
-  : Exit button.

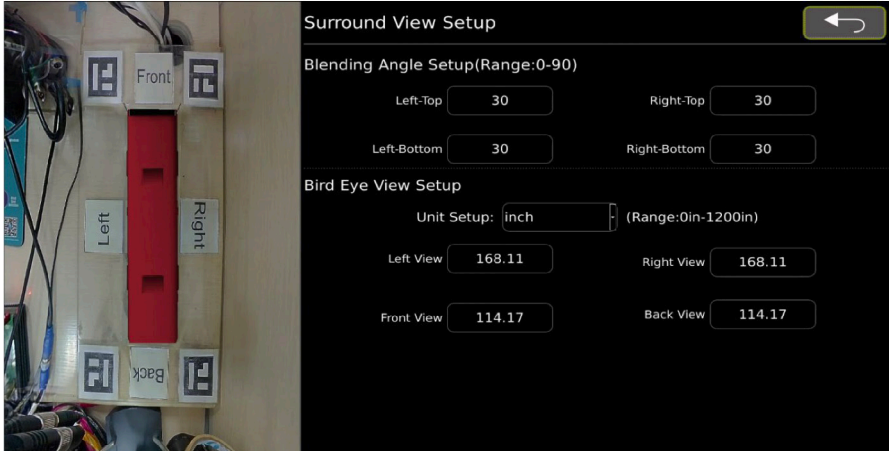
Precautions for importing custom car models:

- 1) The vehicle model picture must be a 32-bit deep, png format picture, otherwise it could cause an issue such as failure to import or bad vehicle model pictures. The vehicle model pictures need to be placed in the top directory of the USB, otherwise the system will not be able to read the vehicle model pictures.
- 2) User must first access the USB before entering this page, otherwise the system cannot read vehicle model pictures.

6 Operation Instruction of Main Menu Interface

Continued

6.4.4 Surround view: Setting page for overlap angle and surround view range.



Feature Description:

Blending Angle

Setup:

- **Left-Top:** Setting of left-top overlap angle, the default value is 30, and the value can be set in the range of 0-90.
- **Left-Bottom:** Setting of left-bottom overlap angle, the default value is 30, and the value can be set in the range of 0-90.
- **Right-Top:** Setting of right-top overlap angle, the default value is 30, and the value can be set in the range of 0-90.
- **Right-Bottom:** Setting of right-bottom overlap angle, the default value is 30, and the value can be set in the range of 0-90.

Bird Eye View Setup:

- **Unit Setup:** Unit configuration, the default is inch. Can be set: inch/cm (the unit is switched to CM, only for conversion display, not for permanent storage. After completely returning to the main interface, the unit will change back to the default value of inch)
- **Left View:** Set the visible width on the left side of the surround view.
- **Right View:** Set the visible width on the right side of the surround view.
- **Front View:** Set the visible width on the front side of the surround view.
- **Back View:** Set the visible width on the rear side of the surround view.

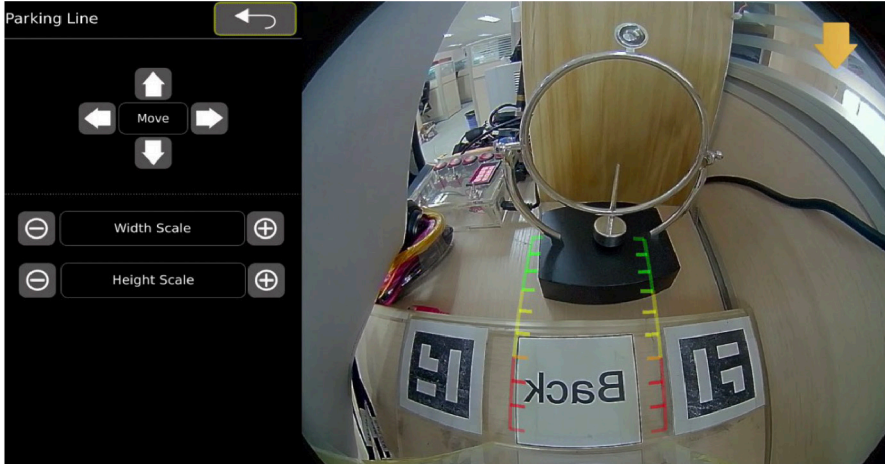
Note:

The parameters on this page will be reset after importing a new calibration file, If there are custom parameters, they need to be reconfigured.

6 Operation Instruction of Main Menu Interface

Continued

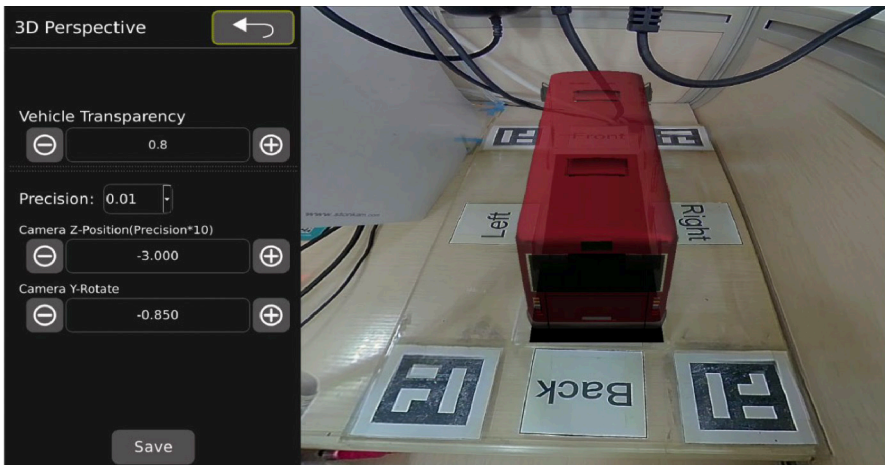
6.4.5 Parking Line: Reversing cursor adjustment interface



Feature Description:

- **Move:** The reversing lines moves up, down, left and right.
- **Width Scale:** Adjust the width of the reversing lines.
- **Height Scale:** Adjust the height of the reversing lines.

6.4.6 3D Perspective: 3D view viewpoint setting page



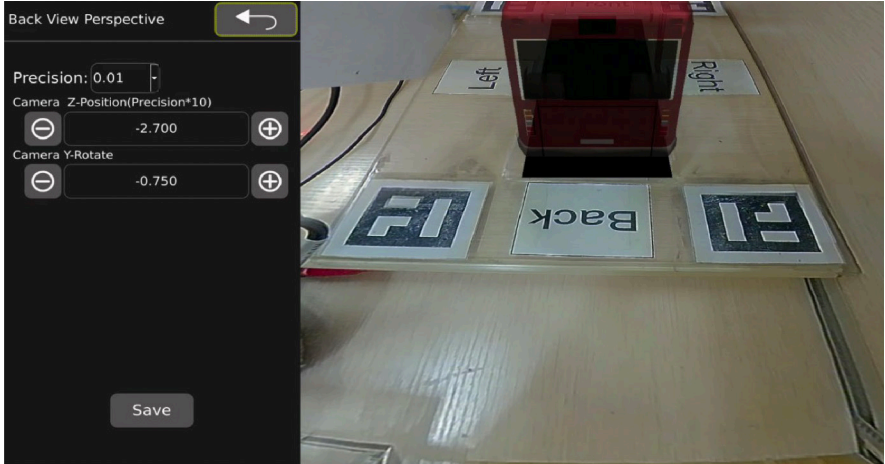
Feature Description:

- **Vehicle Transparency:** Vehicle model transparency setting, default value is 0.8 (range: 0.1-1).
- **Precision:** Precision setting, default value is 0.01 (range: 0.01-0.1).
- **Camera Z-Position:** 3D view zoom setting. Default value is -3.000
- **Camera Y-Position:** 3D view up/down rotation setting. Default value is -0.850

6 Operation Instruction of Main Menu Interface

Continued

6.4.7 Back View Perspective:3D rear view viewpoint setting page

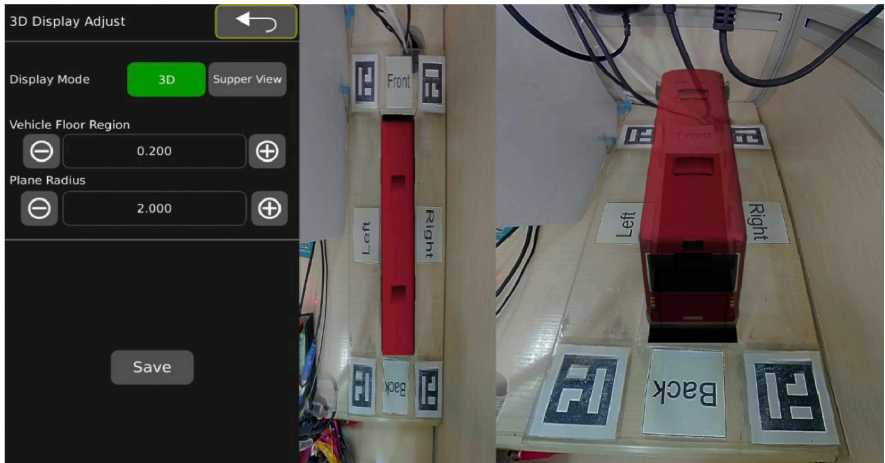


Feature Description:

- **Precision:** Precision setting, default value is 0.01 (range: 0.01-0.1).
- **Camera Z-Position:** 3D view zoom setting.
- **Camera Y-Rotate:** 3D view up/down rotation setting.

6.4.8 3D Display Adjust:3D display setting interface

1) When Display Mode is set to 3D mode:



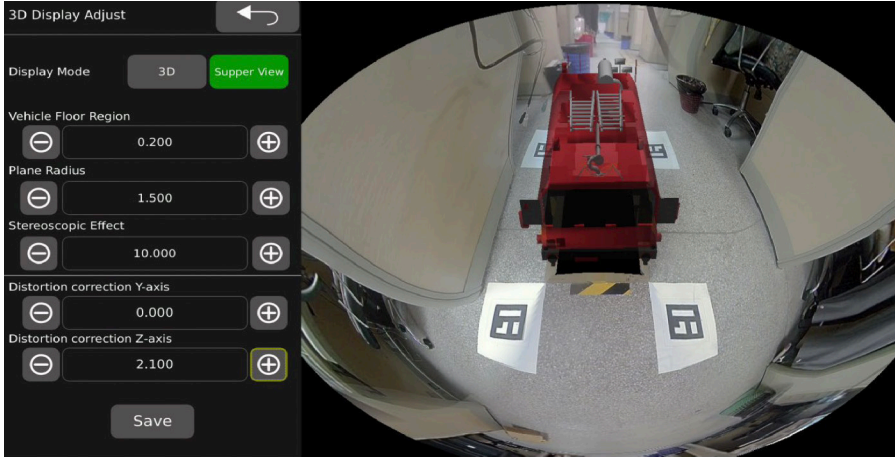
Feature Description:

- **Display Mode:** 3D / Super View selectable. The default value is 3D.
- **Vehicle Floor Region:** Set the size of the floor region under the vehicle model. The default value is 0.200.

6 Operation Instruction of Main Menu Interface

Continued

- **Plane Radius:** Ground radius setting, the larger the radius, the smaller the 3D field of view. Default value is 2.000.2) When Display Mode is set to Supper View mode:



Feature Description:

- **Precision:** Vehicle Floor Region: Sets the size of the floor region under the vehicle model. The default value is 0.200.
- **Plane Radius:** Ground radius setting, the larger the radius, the smaller the 3D field of view. The default value is 1.500.
- **Stereoscopic Effect:** Object 3D effect settings, default is 10.000.
- **Distortion correction Y-axis:** The Y direction offset setting of the virtual projection camera. Default value is 0.000.
- **Distortion correction Z-axis:** The height offset setting of the virtual projection camera. The default value is 1.000.

7 Information: Information data management page

7.1 User Administration Login

The screenshot displays a web interface titled "Information" with a back arrow icon in the top right corner. The interface is divided into several sections:

- Current Version:** Displays system information: CPU: 00.v1.1.01-0.0-839:20210702, MCU: 00-V1.1.09, and Linux: 4.9.170.
- Upgrade:** Features a dropdown menu with "BVA16-UPDATE-00.v1.1.01.tar.gz" selected and an "Upgrade" button.
- System Setup:** Includes a dropdown menu and three buttons: "Reset", "Import", and "Export".
- Upgrade Configure:** Contains a dropdown menu and an "Upgrade" button.
- Specification:** A large empty area for detailed specifications.

Feature Description:

Current Version:

- **CPU:** Current CPU flash version information.
- **MCU:** Current MCU version information.
- **Linux:** Current Linux system version information.

Upgrade:

- Version upgrade, select the version that needs to be upgraded and click  button.

System Setup:

- **Reset:** Resume to default setting.
- **Import:** Import the configuration file.
- **Export:** Export the configuration file.
(Currently the configuration file does not include AVM configuration parameters)

Upgrade Configure:

- Upgrade configuration file

Note:

Do not remove the USB Stick during the upgrade process.

Do not power-off system during the upgrade.



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Please find full conditions here:

<https://brigade-electronics.com/wp-content/uploads/2023/04/Brigade-Official-Warranty-and-Conditions-of-Warranty-Documentation-1-May-2023.pdf>

Specifications subject to change.
