

RVS-9HD-DVR

Rear View Monitor

9" HD DVR Monitor



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Congratulations on purchasing a Rear View Monitor!

With this manual you will be able to properly install and operate the unit.

The Monitor is intended to be installed as a supplement aid to your standard rear view mirror that already exists in your vehicle. The Monitor should not be used as a substitute for the standard rear view mirror or for any other mirror that exists in your vehicle.

In some jurisdictions, it is unlawful for a person to drive a motor vehicle equipped with a TV viewer or screen located forward of the back of the driver's seat or in any location that is visible, directly or indirectly, to the driver while operating the vehicle.

Please read all of the installation instructions carefully before installing the product. Improper installation will void manufacturer's warranty.

IN THE BOX

1 x 9" HD monitor with built-in speaker

1 x HDMI-VGA Adapter + USB to miniUSB Power Cable

1 x Power Harness

1 x HDMI Cable

1 x RVS Mount

1 x Remote Control

SAFETY INFORMATION

PLEASE READ THE ENTIRE MANUAL AND FOLLOW THE INSTRUCTIONS AND WARNINGS CAREFULLY. FAILURE TO DO SO CAN CAUSE SERIOUS DAMAGE AND/OR INJURY, INCLUDING LOSS OF LIFE. BE SURE TO OBEY ALL APPLICABLE LOCAL TRAFFIC AND MOTOR VEHICLE REGULATIONS AS IT PERTAINS TO THIS PRODUCT. IMPROPER INSTALLATION WILL VOID MANUFACTURER'S WARRANTY.

USAGE : The Rear View Camera System is designed to help the driver safely detect people and/or objects helping to avoid damage or injury. However, you the driver, must use it properly. Use of this system is not a substitute for safe, proper or legal driving.

- Never back up while looking at the monitor alone. You should always check behind and around the vehicle when backing up, in the same way as you would if the vehicle did not have the Rear View Camera System. If you back up while looking only at the monitor, you may cause damage or injury. Always back up slowly.
- The Rear View Camera System is not intended for use during extensive back-up maneuvers or backing into cross traffic or pedestrian walkways.
- Please, always remember, the area displayed by the Rear View Camera System is limited. It does not display the entire panorama that is behind you.



SAFETY INFORMATION

INSTALLATION

Electric shock or product malfunction may occur if this product is installed incorrectly.

- Use this product within the voltage range specified. Failure to do so can cause electronic shock or product malfunction.
- Take special care when cleaning the monitor.
- Make sure to firmly affix the product before use.
- If smoke or a burning smell is detected, disconnect the system immediately.
- Where the power cable may touch a metal case, cover the cable with a friction tape. A short circuit or disconnected wire may cause a fire.
- While installing the RVS System be careful with the wire positioning in order to avoid wire damage.
- The RVS System should only be used when the vehicle is in reverse.
- Do not watch movies or operate the monitor while driving; as it may cause an accident.
- Do not install the monitor where it may obstruct drivers view or obstruct an air bag device.
- Dropping the unit may cause possible mechanical failure.
- When in reverse, monitor buttons are not functional



A Safe Fleet Brand

If you have questions about this product,
please contact us at:

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**IN NO EVENT SHALL SELLER OR MANUFACTURER BE
LIABLE FOR ANY DIRECT OR CONSEQUENTIAL DAMAGES OF
ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM
ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.**



BEFORE YOU BEGIN INSTALLATION

Before drilling please check that no cable or wiring is on the other side of the wall. Please clamp all wires securely to reduce the possibility of them being damaged while vehicle is in use.

Keep all cables away from hot or moving parts and electrical noisy components.

We recommend doing a benchmark test before installation to insure that all components are working properly.

Step 1: Choose the monitor and camera locations.

Step 2: Install all cables in vehicle, when necessary a 0.8" (20mm) hole should be drilled for passing camera cable through vehicles walls.

Install split grommets where applicable.

Step 3: Once all cables and wiring have been properly routed, perform a system function test by temporarily connecting the system.

If the system seems to not be operating properly see troubleshooting (page 18).

INSTALLATION GUIDE

Cable

1. Be sure to position the cable properly. The aviation camera cable uses aircraft grade connectors which means the camera cable can be exposed to all weather elements. Do not run the cable over sharp edges, do not kink the cable and keep away from HOT and rotating parts.
2. Fasten all cables and secure all excess cable.

Monitor

1. To Attach the Pedestal mount to the dashboard or to the headliner use self-tapping screws and/or the adhesive pad.
2. Attach monitor to mount, and adjust mounting angle to allow optimum driver viewing comfort.

Figure 1.1

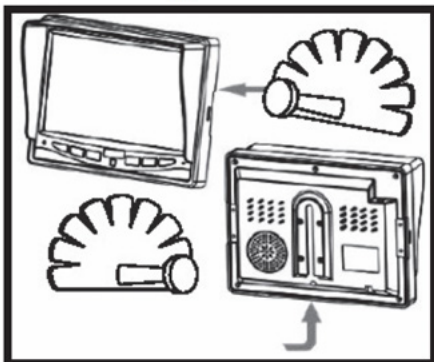


Figure 1.2

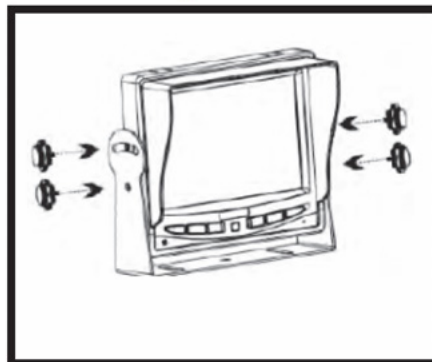


Figure 1.3

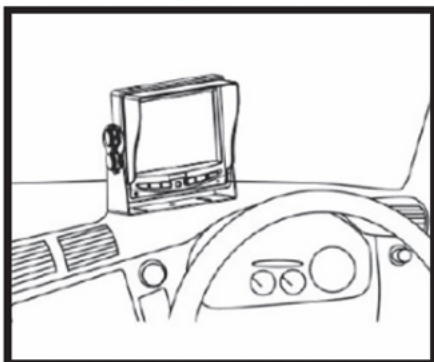
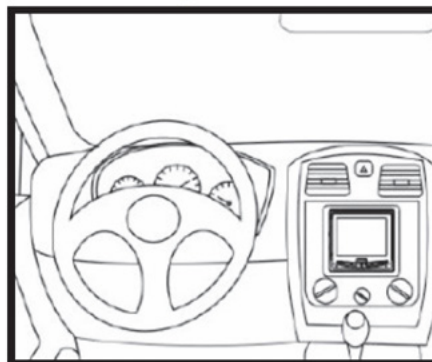


Figure 1.4



**Connection of U
Bracket**

**Connection of
Flushmount Bracket**

WIRING CAMERA AND MONITOR

The Power Harness

- To power the system connect the power (RED) 12V+ wire to ignition power and the ground (BLACK) wire to chassis ground.
- These are the only wires needed to power the entire system and all the cameras. Each camera can be seen at any time by simply pressing the power button and using the V1/2 button to toggle.
- The three positive trigger wires (WHITE-CH1, BROWN-CH2, BLUE-CH3) each represent one channel and will turn on their channel when the trigger wire is energized with 12V.
- "Camera 3" is the designated backup channel. To have the the backup camera come on when you go into reverse, connect the BLUE wire to reverse power (or any power source that comes on only in reverse).
- The other channels can similarly be triggered (i.e. side cameras can be triggered by the turn signals etc.)
- To automatically have camera and monitor turn ON when vehicle activates, simply twist BLUE positive trigger 12V+ to Red Power line 12V+ and wire to ignition power.

Note: This setup will disable the menu in channel 3. To access the menu simply move to channel 1 or 2 and all the changes will apply to channel 3.

Note: When the blue wire is active it will have precedence over the other triggers. Therefore, if you wish to use multiple triggers, do not attach the blue trigger to constant power.

WIRING CAMERA AND MONITOR

Audio: There is audio on channels 2 and 3. On channel 3 the blue trigger wire must be energized (12V) to activate the audio. On channel 2 the audio is always on.

Grid-lines: The grid-lines are also carried through the blue wire. To use the grid-lines for reversing, connect the blue wire to a reverse power.

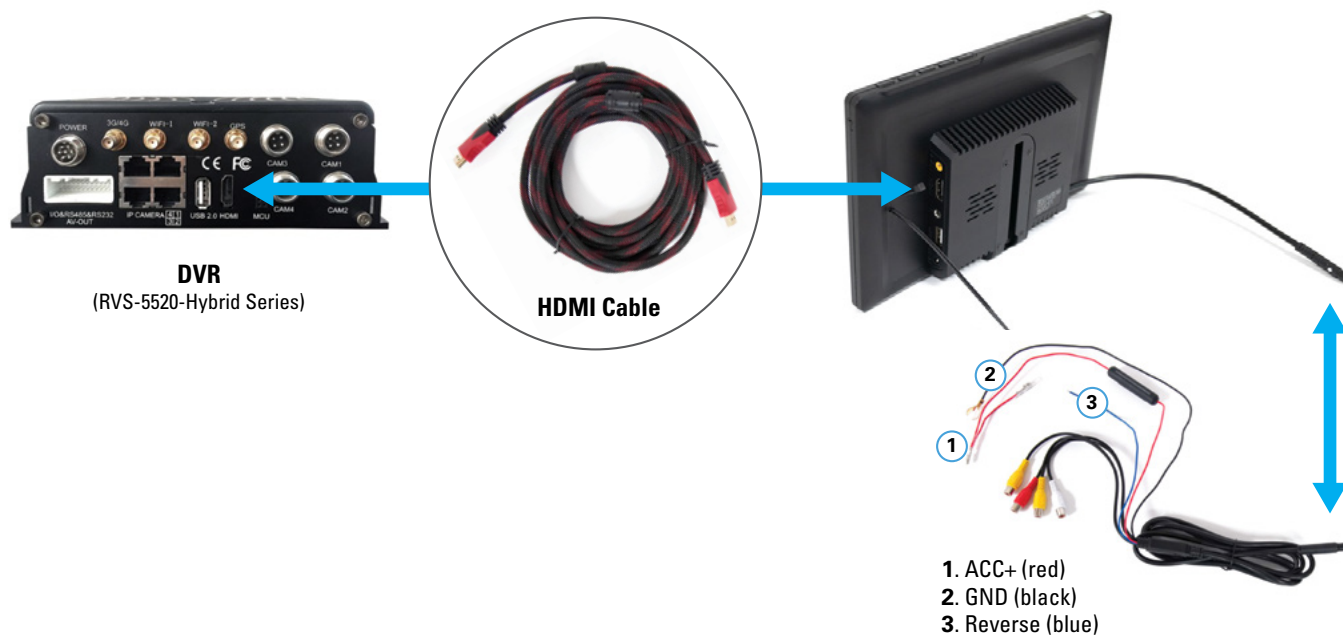
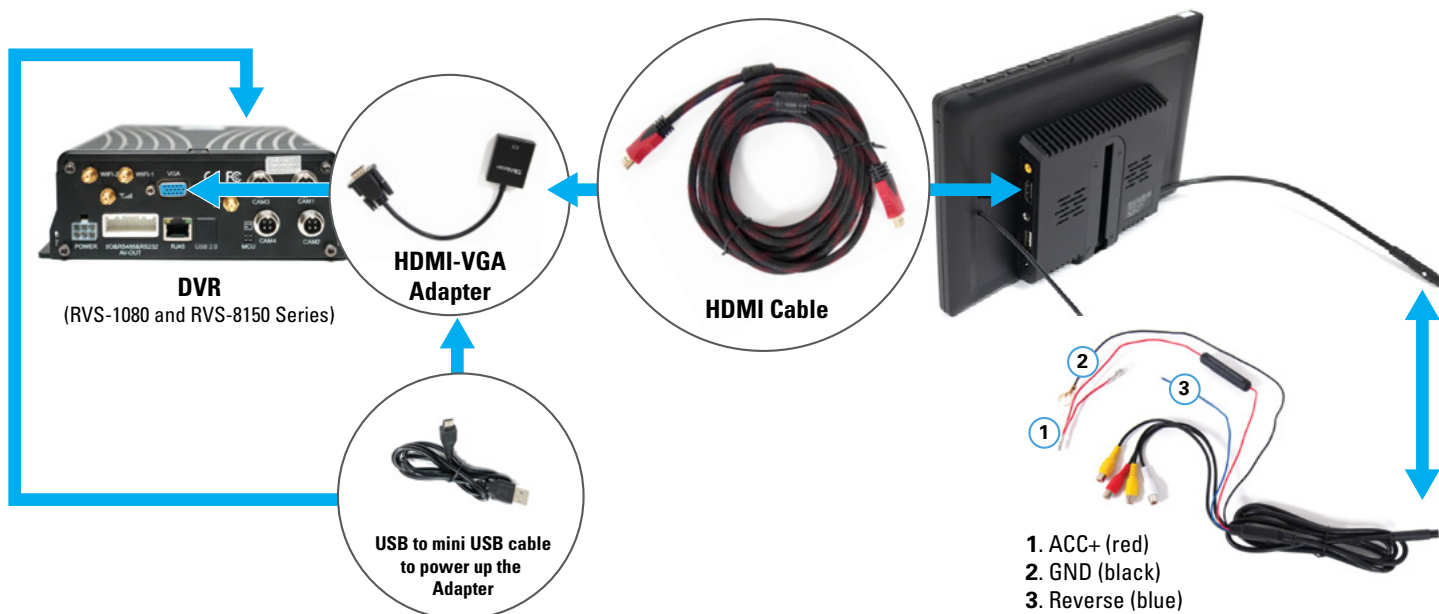
There is a built-in voltage regulator for our systems which can handle 12-24 volts. Real consumption is 10 to 30 Volts.

Note: The camera and monitor can always be activated by manually pushing the power button on monitor. This is in addition to utilizing the positive triggers..

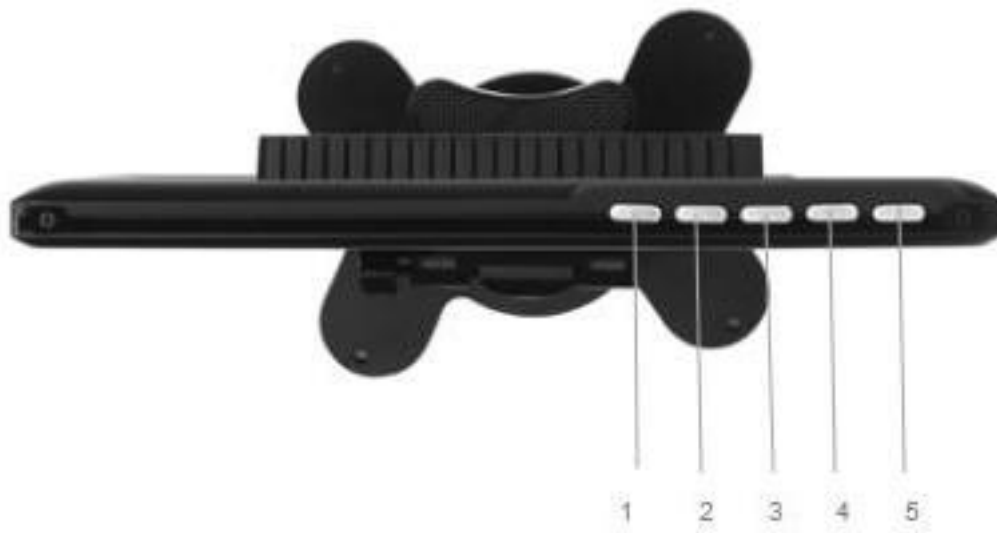
Note: If connecting power directly to battery, the camera is always ON and therefore can drain battery. It is recommended to connect power to an ignition switched accessory power source.



CONNECTION DIAGRAM

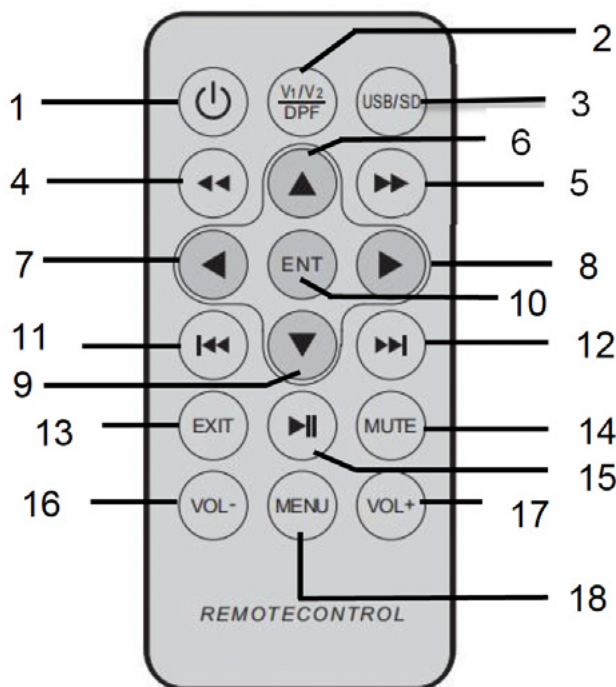


MONITOR OPERATION



1. Decrease brightness, contrast, color, volume
2. Menu
3. Increase brightness, contrast, color, volume
4. AV/HDMI/USB Switch
5. Power ON/OFF

MONITOR DIMENSIONS AND REMOTE OPERATIONS



1. Power
2. AV1/AV2/HDMI/USB
3. USB/SD
4. Fast Backward
5. Fast Forward
6. Up
7. Left
8. Right
9. Down
10. Enter
11. Previous
12. Next
13. Exit
14. Mute
15. Play/Pause
16. VOL-
17. VOL+
18. Menu



SPECIFICATION

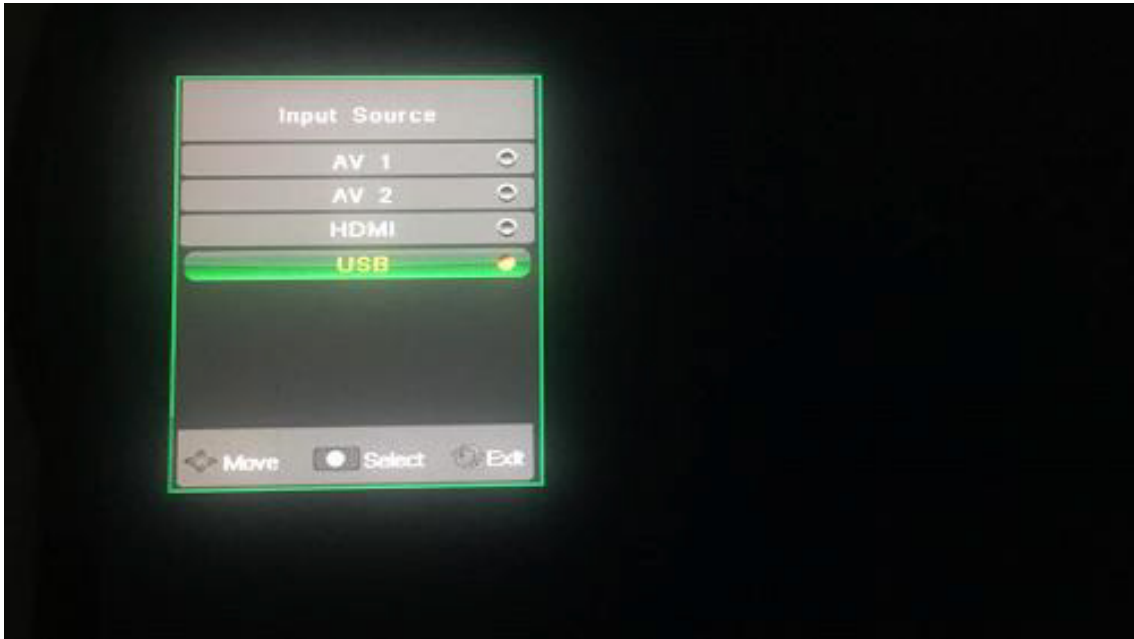
Monitor Specs	
Screen Size	9.3" HD IPS Full-View Panel
Video System	PAL / NTSC
Resolution	1280 x (RGB) 640 Pixels
Aspect Ratio	16 x 9
Video Input	AV2 w/ trigger wire, AV1 w/ trigger wire (optional)
Brightness	500 cd/m2
Contrast	500:1
Audio	Built-in Speaker
Field of View	L/R:90°,UP:90°,down:90°
Dimming	Automatic
Power Input	DC 9~32 V
Nominal Voltage	12V-24V
Power Consumption	9W MAX
Dimensions	22.4 x 14.2 x 3.1cm / 8.8" x 5.6" x 1.22"
Operating Temperature	-20°~ 60°C



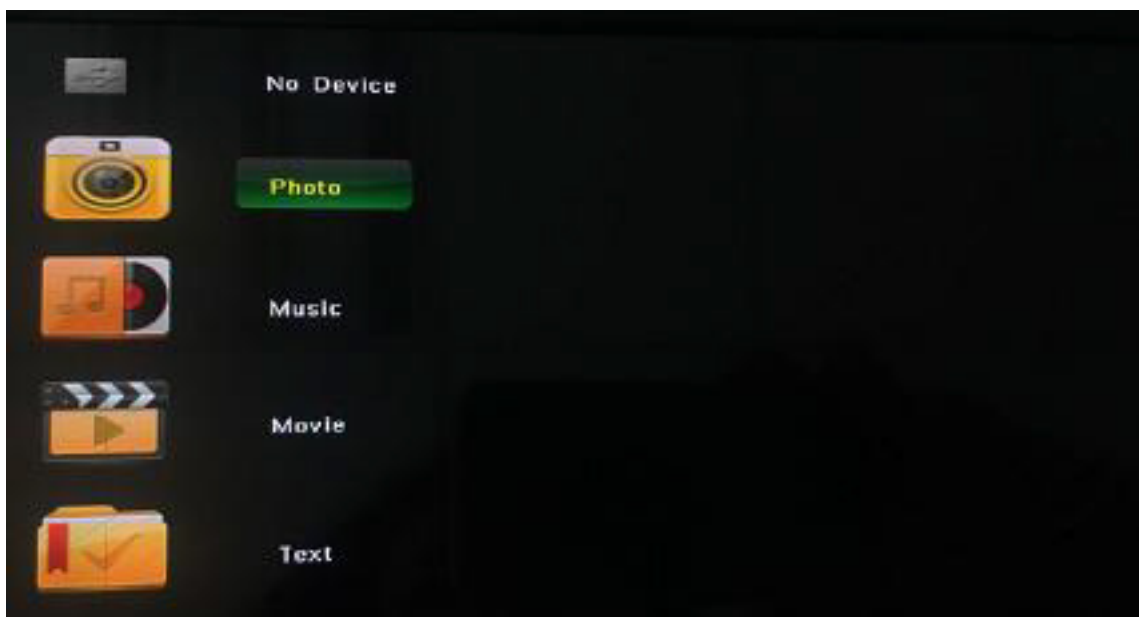
MONITOR MENU

Input Source Switch


Press the key  or press the  on the remote to change Input source (AV 1 / AV 2 / HDMI / USB mode)



USB Mode (Read the Photo, Music, Movie, Text on USB)



VIDEO SETTINGS

Long press the second key  on the monitor or press MENU on remote to get into the settings mode

Monitor Video Settings Interface



Auto Picture: Standard / Movie / Eco / Personal/ Vivid

Brightness: 0-100

Contrast: 0-100

Color: 0-100

Sharpness: 0-100

Color Temperature: Normal / Warm / User / Cool

Advance Control: Noise Reduction / Backlight / DCR / DCC

AUDIO SETTINGS



Sound Mode: Standard / Music / Speech / Personal

Balance: 0-50

Bass/Treble: Set up according to Sound Mode automatically

Virtual Surround: On / Off

Auto Volume: On / Off

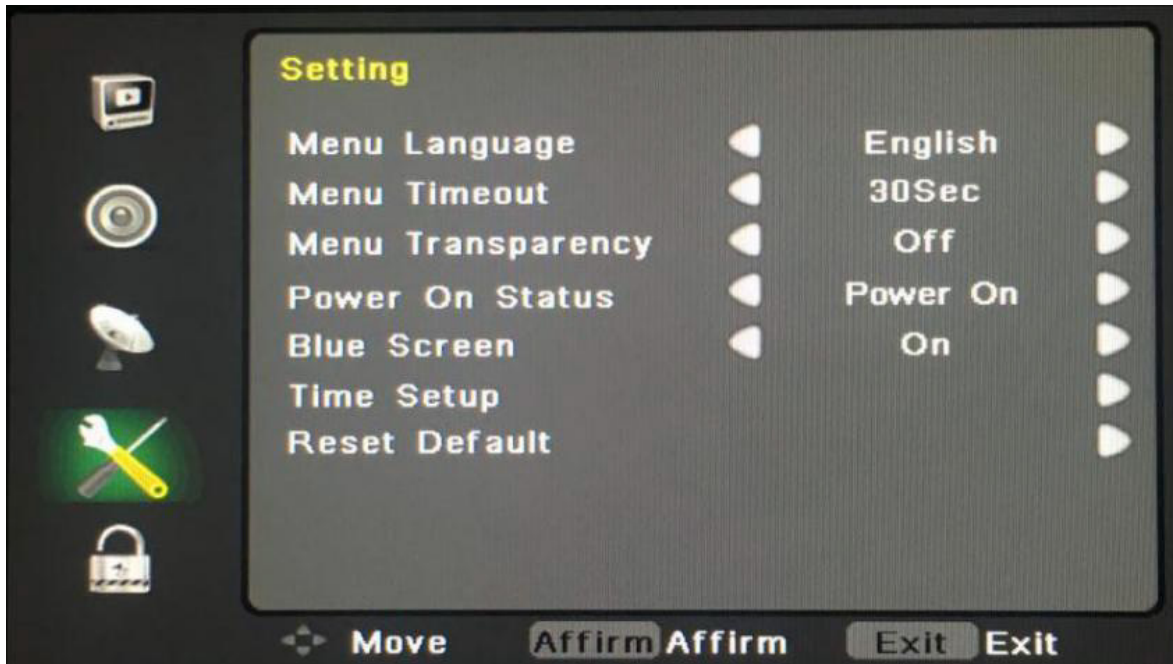
Balance: 0-50

Bass/Treble: Set up according to Sound Mode automatically

Virtual Surround: On / Off

Auto Volume: On / Off

SETTING



Menu Language: English / Chinese

MenuTimeout: 20 / 30 / 40 / 50 / 60 second / Off

Menu Transparency: Off / Low/ Middle/ High

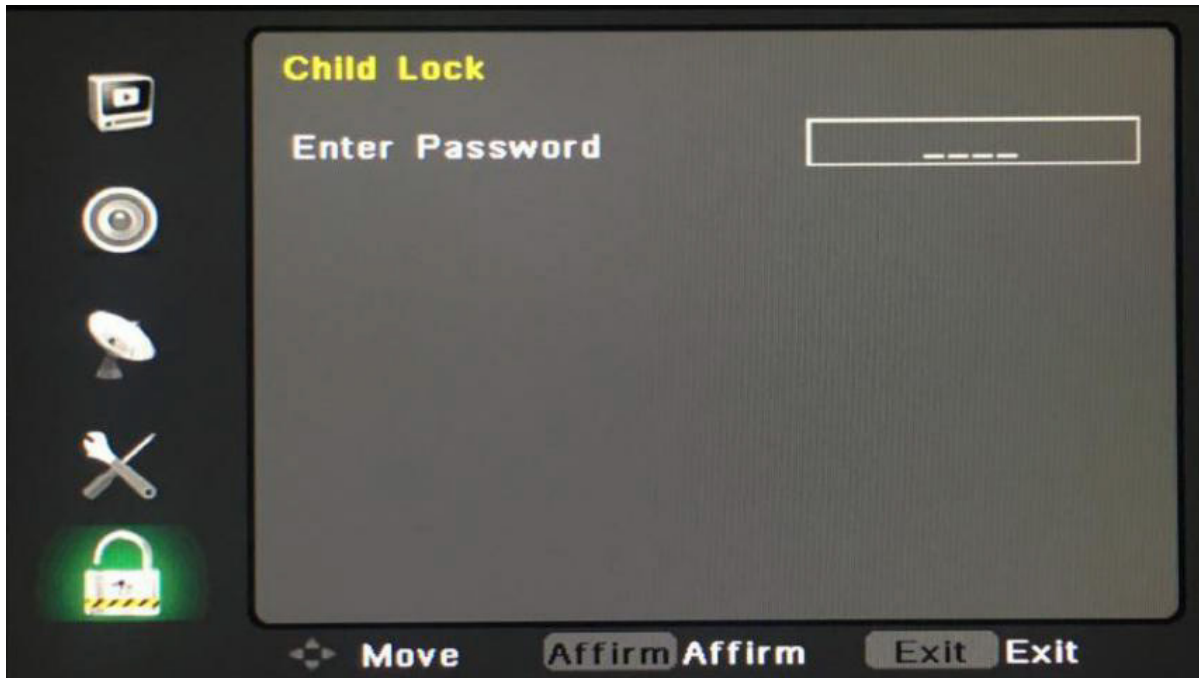
Power On Status:Power On / Keep Last Memory / Standby

Blue Screen: On / Off

Time Setup: Time / Sleep Timer/ Auto Sleep

Reset Default

CHILD LOCK



Enter 4 numbers as PIN according to your preferences.

(This function is in order to prevent children press button and cause something that should not happen, the other keys will not work after the lock is locked.)

TROUBLESHOOTING

Monitor Displays Blue Screen & Displays No Signal

- Do a hard reset, unplug all cables and power cables and leave out for 1 minute and then re-connect them.
- Check to ensure that the connection to the camera is tight.
- Verify camera cable is plugged into port labeled Backup Camera
- Verify that the blue positive trigger on power harness is put to power 12v+.
- If the problem still persists, verify that alternate ports work. If alternate ports do not work, remove Blue Trigger wire from 12V+ and select alternate channels.

Monitor Will Not Power-Up (no backlight on power button)

- Check fuse
- Check 12v+ to monitor
- Check ground connection

No Image On Screen

- Verify camera is in correct camera input
- Verify cable is connected to monitor
- Verify camera is connected to cable
- Connect known working camera and cable to monitor.
- Verify Blue trigger is receiving power

Audio on Camera (optional)

- Verify chosen camera has audio
- Verify volume setting
- Confirm that the Blue audio trigger is connected to 12v+



ONE YEAR WARRANTY

REAR VIEW SAFETY, INC. WARRANTS THIS PRODUCT AGAINST MATERIAL DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF PURCHASE. WE RESERVE THE RIGHT TO REPAIR OR REPLACE ANY SUCH DEFECTIVE UNIT AT OUR SOLE DISCRETION. REAR VIEW SAFETY, INC. IS NOT RESPONSIBLE FOR A DEFECT IN THE SYSTEM AS A RESULT OF MISUSE, IMPROPER INSTALLATION, DAMAGE OR MISHANDLING OF THE ELECTRONIC COMPONENTS. REAR VIEW SAFETY, INC. IS NOT RESPONSIBLE FOR CONSEQUENTIAL DAMAGES OF ANY KIND.

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