



CONVOY TECHNOLOGIES
See Everything

Owner's / Installation Manual

Performance Series

RVM-0744

Non-Reflective

REARVIEW MIRROR MONITOR



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

Convoy Technologies 6409 Highview Drive | Fort Wayne, IN 46808 | Ph (888) 565-2583



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PRECAUTIONS

Storage and keeping

Do not expose the monitor to excessive heat or cold. The storage temperature of this device is $-30 \sim +75$ C, and the operating temperature is $-20 \sim +60$ C. The Humidity is Rh90%.

Never use this device near a bathtub, wash basin, kitchen, damp basement, swimming pool or similar place.

Never use this device in environments with excessive moisture, dust or smoke.

Avoid dropping or striking this device.

Never puncture, scratch or use abrasive cleaning materials on this device.

The monitor is not designed to be waterproof.

Operating Precautions

Make sure all cables are connected properly observe polarity. Improper cable connections may damage the monitor. Remove the power cable connections when you do not intend to use the unit.

Warning!

1. High voltage is present within the monitor. The opening of the case should be by professionals.
2. Do not watch the video while driving unless you are monitoring the rear view camera display.

Special Notice

Occasionally, a few highlights or dark spots may occur on the LCD screen. This is a very common phenomenon in active matrix display technology, and doesn't necessarily indicate any defects or faults. Never try to repair this device by yourself. In case of any problems, please turn off the display at once and notify our company or authorized dealer. The monitor is a complex device. Any disassembly or modification may lead to damage and void the warranty.

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PRECAUTIONS

Maintenance

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



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 waste 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.

Declaration of conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: This device may not cause harmful interference. This device must accept any interference received, including interference that may cause under desired operation.



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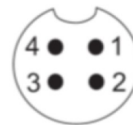
Mounting the RearView Mirror Monitor

- 1) Loosen the set screw holding the installed rearview mirror in place, and carefully slide it off its base. The Convoy RVM-0744 will use the installed base on the windshield.
- 2) Mount the supplied windshield bracket to the back of the RVM-0744 with the supplied screws. Slide the bracket onto the base on the windshield, tighten the locking screw. Route the cable up under the headliner to the A pillar and down.
- 3) The device may be powered by a 12 or 24 volt automotive battery or vehicle electrical system.
- 4) Make sure all cables are connected properly, observe polarity. Improper cable connections may damage the monitor. Remove the power cable connections when you do not intend to use the unit.



1. CH1-Brown, CH1 Trigger—Brown (12VDC)
2. CH2-White, CH2 Trigger—White (12VDC)
3. CH3-Yellow, CH3 Trigger—Yellow (12VDC)
4. CH4-Blue, CH4 Trigger—Blue (12VDC)
5. Red to Power (9-48VDC +)
6. Black to Ground
7. 13 pin din to Monitor

Pinout from the Monitor side:



- Pin1= +12V (Power)
- Pin2= GND (Ground)
- Pin3= Audio
- Pin4= Video



Function Keys:

1. **Power** = Power On/Off
- < ◀ = a. Quad (AV1-4) and triple (AV1-3) images display switch
b. Adjust up numbers of options in menu pages
1. **MENU** = a. Enter Menu
b. Turn Menu Page
2. ▶ = a. Dual images display switch: (AV1-2) TO (AV3-4)
b. Adjust down numbers of options in menu pages
3. **AV▼** = a. Single channel switch (AV1, AV2, AV3, AV4)
b. As option choosing button in menu page

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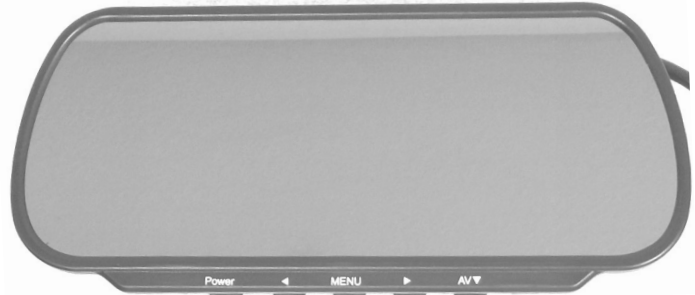


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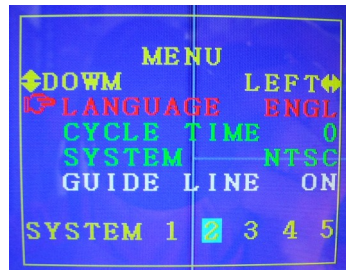
See Everything

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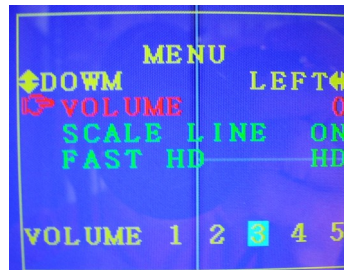
RVM-0744 Operation



Menu Page 1:
Picture Controls



Menu Page 2:
Appearance Controls



Menu Page 3:
Volume Control, etc.



Menu Page 4:
Camera Channel Mirror Image on
or off.



Menu Page 5:
Camera focus delay time after
trigger voltage is removed.

Function Keys:

- Power** = Power On/Off
- ◀** = a. Quad (AV1-4) and triple (AV1-3) images display switch
b. In the menu, it will adjust up numbers or options
- MENU** = a. Enter Menu
b. Turn Menu Page
- ▶** = a. Dual images display switch: (AV1-2) TO (AV3-4)
b. In the menu, it will adjust down numbers or options
- AV ▼** = a. Single channel switch (AV1, AV2, AV3, AV4)
b. In the menu, this will select an option on that menu page.

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Installation Notes

- 12v to the trigger wire will turn the monitor and camera on, and focus on that camera. When trigger voltage is removed, monitor will turn off, or go back to its previous state.
- AV1 does not have a trigger wire. There is a distance grid superimposed on AV2, for the backup camera view.
- Trigger delay times on Menu Page 5 are useful if you install sideview cameras triggered by turn signals. If you connect your 12v trigger wire to a pulsing wire, increasing the delay will keep the camera turned on instead of turning on and off when the turn indicators flash, allowing the driver to view the camera on the inside of the turn until the turn is complete.

Troubleshooting

Symptom	possible Causes/Solutions
No picture. No sound	Improper connection of automobile adapter. Use of un-authorized power supply. Power switch is on OFF position
No picture	Check whether locking cable is properly connected.
No sound	Check whether locking cable is properly connected, or the volume is set too low
Dark picture	Check whether brightness and contrast are adjusted correctly, and note if the temperature is at or below -10°C.
No color	Adjust the color settings.
No reversing function (i.e. Picture)	Check the wires (black/ red/ blue) that may be loose

Specifications

Warranty and Support Information

7" TFT-LCD	Color Monitor
Audio Output:	0.5 W
Loudspeaker:	1ea 15x40mm
Power Supply:	10-24V
Power Consumption:	6.6W Max, 260mA
Outer Dim (WxHxD):	9-7/8" x 4-1/4" x 1-1/4"
Resolution:	800W x 480H
Contrast:	300:1
Brightness:	500cd/m ²
Viewing Angle:	40°V x 60°H
Operating Temperature:	-10° - +60°C, RH90%
Storage Temperature:	-20° - +70°C, RH90%

Subject to the provisions described below, this CT product is protected for 1 year against defects in material and workmanship. Should a product fail to perform as described above within the warranted period, it will be repaired or replaced with the same or functionally equivalent product by CT. This warrant does not apply if, in the judgement of CT, the product fails due to damage from shipment, handling, storage, accident, abuse or misuse, or if it has been used or maintained in a manner not conforming to product manual instructions, has been modified in any way. Repair by anyone other than CT or an approved agent will void this warranty. The maximum liability of CT under this warranty is limited to the purchase price of the product covered by the warranty. All defective products should be returned to CT with shipping charges pre-paid. CT will not accept collect shipments.

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