



AUDIOVOX[®]
ELECTRONICS CORP.

**LCM5620PKG 5.6" Monitors
with
2 Audio/Video
Input Capability**



Installation and Operation Manual

Important Notice

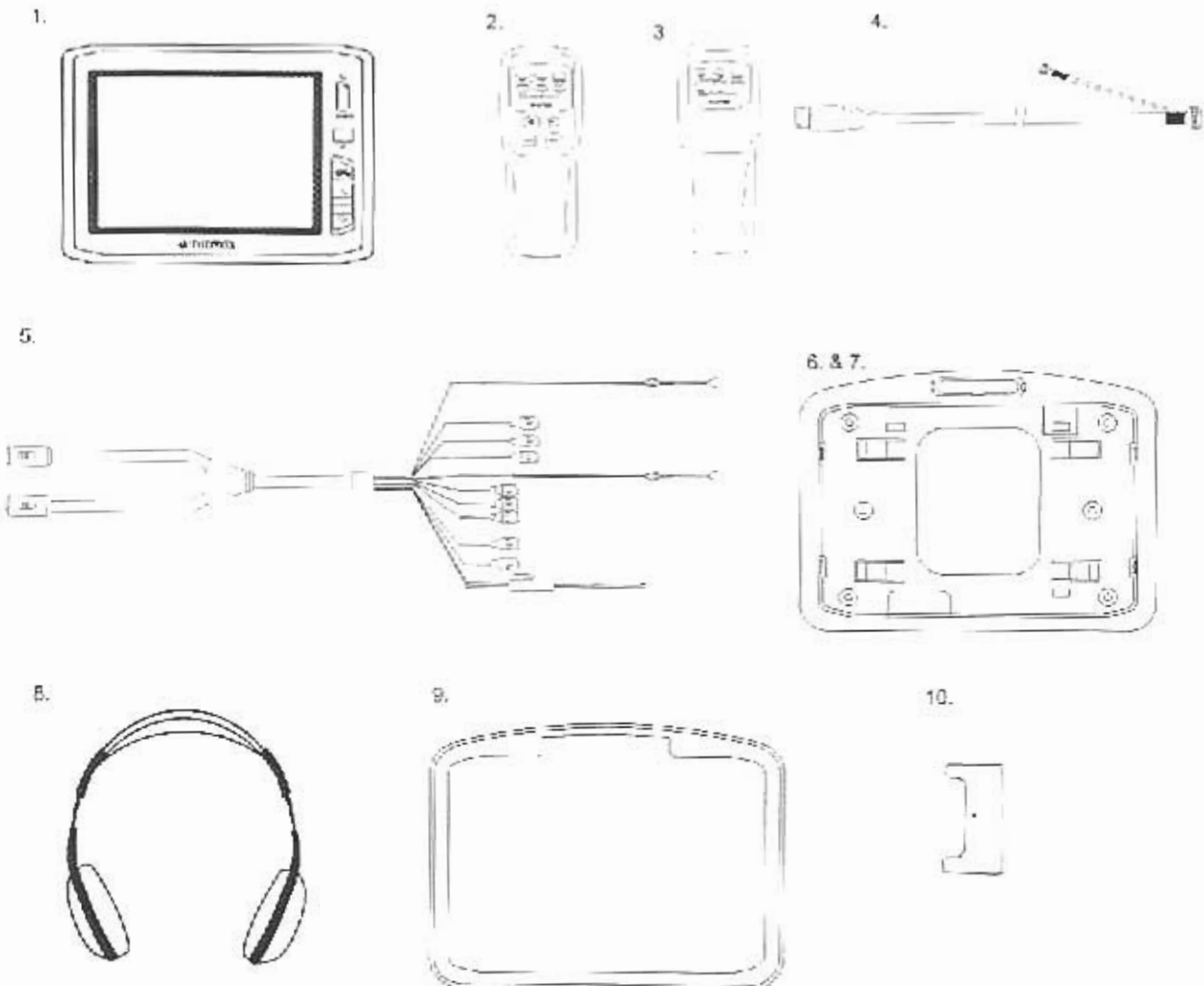
It is unlawful in most jurisdictions for a person to drive a motor vehicle which is equipped with a television viewer or screen that is located in the motor vehicle at any point forward of the back of the driver's seat, or that is visible directly or indirectly, to the driver while operating the vehicle.

The Materials included in this package:

- | | | |
|-----|---|--------|
| 1. | LCM5620PKG System Monitor (One Master, One Slave) | (2pcs) |
| 2. | Master Remote Control Unit (MRCU) | (1pc) |
| 3. | Slave Remote Control Unit (SRCU) | (1pc) |
| 4. | 13 Pin 4 Foot Din cable | (2pcs) |
| 5. | System Main Cable (SMC) | (1pc) |
| 6. | Master Housing with built-in Master IR Transmitter (IRT456, CH A) | (1pc) |
| 7. | Slave Housing with built-in Slave IR Transmitter (IRT457, CH B) | (1pc) |
| 8. | Dual Frequency IR Headphone set | (2pcs) |
| 9. | Trim Ring | (2pcs) |
| 10. | Release Key | (2pcs) |

Optional Enhancements (not included, must be purchased separately)

1. FMM100, FM Modulator



LCM5620PKG SYSTEM OVERVIEW

- 1) The LCM5620PKG is a versatile audio/video switching system, which includes two monitors, that accept two Audio/Video inputs. A separate audio output is provided for connecting a FM Modulator to the vehicle's radio.
- 2) The Master Monitor is comprised of a 5.6" TFT LCD monitor that allows the user to select from two A/V sources (Not Supplied). The housing has a built-in inferred audio transmitter (IRT 456, CH A) for use with the supplied two channel wireless headphones (CH A). The master monitor also has the ability to select either audio source for output to an optional FM/Modulator (Audiovox FMM-100) to allow audio playback through the vehicle radio. The built in IR repeater circuitry enables the user to control the sources via remote control.

(NOTE: The VCP functions on the master remote are for use with Audiovox products only.)

- 3) The slave monitor is identical to the Master Monitor, except that it can not control the A/V sources, or select the audio for the FM Modulator.
- 4) The monitors will show all of the functions including the FM selection (Master Only) with the comprehensive OSD.
- 5) The LCM5620PKG System supplies two IR Headphone sets. It offers excellent convenience for the users compared to wired headphones. The headsets have an A-B switch that allows the user's to select the audio from either the master (CH A) or the Slave (CH B).
- 6) Using the IR codes, the Master Monitor will be able to respond only to the Master Remote Control unit and the Slave will respond only to the Slave Remote Control unit. Each unit operates independently of the other.

(NOTE: The IR Repeater in this system may not work with non-Audiovox components.)

VEHICLE PREPARATION:

- 1) Decide on the system configuration and the options that will be installed (i.e.what components, VCP, DVD, TV Tuner, Video Game, Monitor, FM Modulator, etc.).
- 2) Read the manuals and get familiar with the electrical requirements and connections.
- 3) Decide on the mounting locations and methods of mounting the products.
- 4) Prepare the vehicle by removing any interior trim necessary to gain access to the vehicle's wiring as well as all areas where interconnecting wire harnesses will be located. If any access holes need to be cut into the vehicle, headrests, or other trim components, this should be performed now. (Refer to the Installation Procedure).
- 5) Run the wiring harnesses throughout the vehicle as necessary. (Refer to the Wiring Diagrams on page 7, as well as the wiring instructions for the individual components and accessory options being installed). Be sure, that all the wiring is protected from sharp edges and is routed in such a manner that it will not be pinched, when it is fully installed. Be sure to leave enough slack in the wiring at each component to allow sufficient working room.
- 6) Remove all the A/V system components from their packaging and then place them in the vehicle at their respective locations.
- 7) Connect all the components together (electrically) and verify that the proper operation of all the system functions. **NOTE:** This is best done BEFORE the components are permanently mounted.
- 8) After verifying the proper operation of the system, proceed to mount each component.
- 9) When all the components are mounted, recheck the function of the entire system to be sure it is functioning correctly. Make sure that no wiring was pinched, or connected improperly during the final installation.

VEHICLE PREPARATION:

- 1) Locate an accessory power source (+12VDC present when the ignition key is in the accessory and run positions. 0VDC should be present when the ignition key is in the OFF position). Generally, these wires can be found at the ignition switch or fusebox. (NOTE: Ensure that the accessory power is fused at the source. Failure to do so may result in vehicle wiring damage.) Ground the black wire to a chassis ground close to the mounting location of AV sources.
- 2) The mounting method, and the location will vary from vehicle to vehicle, so this manual will only focus for the installation of the LCM5620PKG Master and Slave Monitors in the supplied configuration.
- 3) The best location for the LCM5620PKG System components is:
 - a) Monitors : Headrest
 - b) Optional FM Modulator: Near the car radio with the ON/OFF switch mounted on the dashboard near the driver.
 - c) System Main Cable: Under either seat where monitors are located.

Tools and Materials Required:

- Utility knife or box cutter with sharp blade
- Sharpie™ marker or similar
- Tie Wraps

Remove the headrest from the vehicle for easiest installation.

Lay headrest on a flat surface

Center trim collar on headrest as shown.

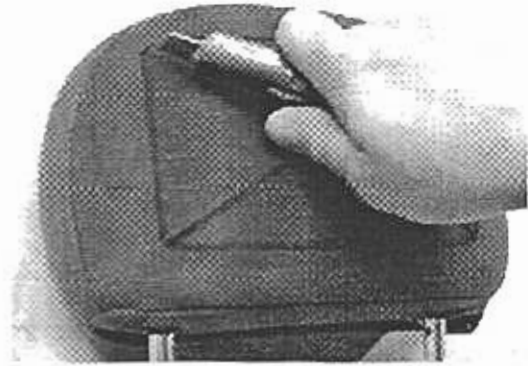
NOTE: Depending on the angle of the headrest the trim ring and housing may be mounted upside down.

Using a Sharpie™ marker or similar marking pen, mark headrest material along the interior of the trim collar.

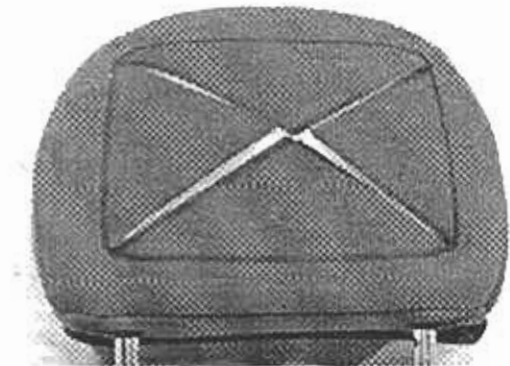
Remove the trim collar and mark an "X" from corner to corner as shown



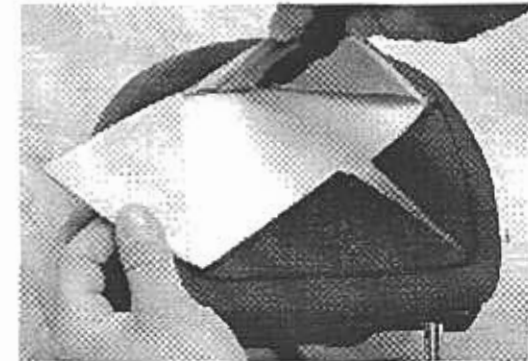
Using the utility knife, cut the headrest material along the "X" lines. Do not cut the material along the other lines at this time.



This will leave you with an "X" cut as shown.

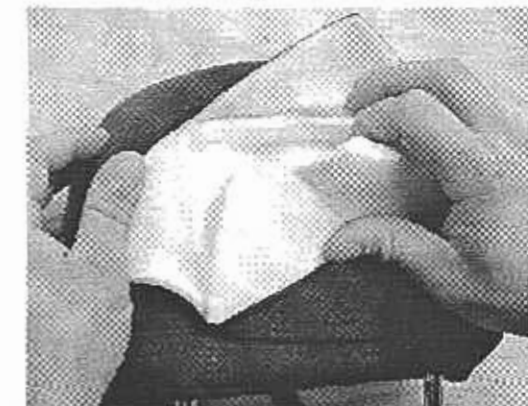


Pull the flaps up and cut the foam beneath the material to the proper depth. Cut all four sides of the foam.



Using your fingers, tear the foam out of the headrest leaving a recess where the shell will be inserted.

At this point you will need to install the harness up through the area into the recess. It may be helpful to follow one of the posts and tie wrap it to the post for restraint.



Lay the flaps of headrest material down into the recess and insert the clamshell into the recess. Check for fit. If it does not fit properly, you may need to remove some more foam.

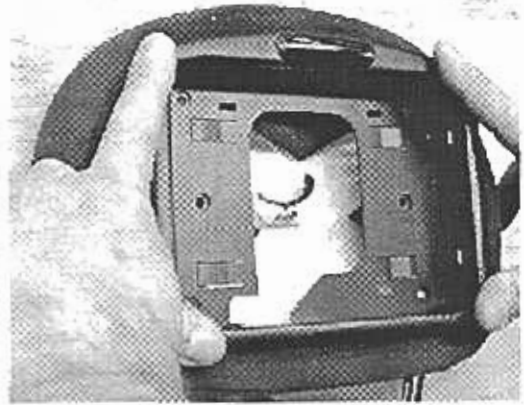
NOTE: The clamshell will need to be secured to the headrest, either by using tie straps, screws, ect..

Remove the clamshell and insert the IR transmitter and plug into the IR transmitter board. Reinsert the clamshell into the recess and secure using tie wraps or screws.

Plug the remaining connector into the monitor.

Turn the monitor around and insert it into the clamshell housing. Snap into place.

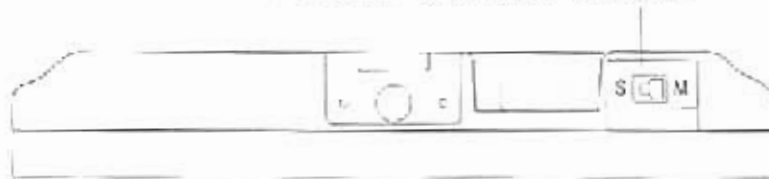
Connect the wiring to the video system and test.



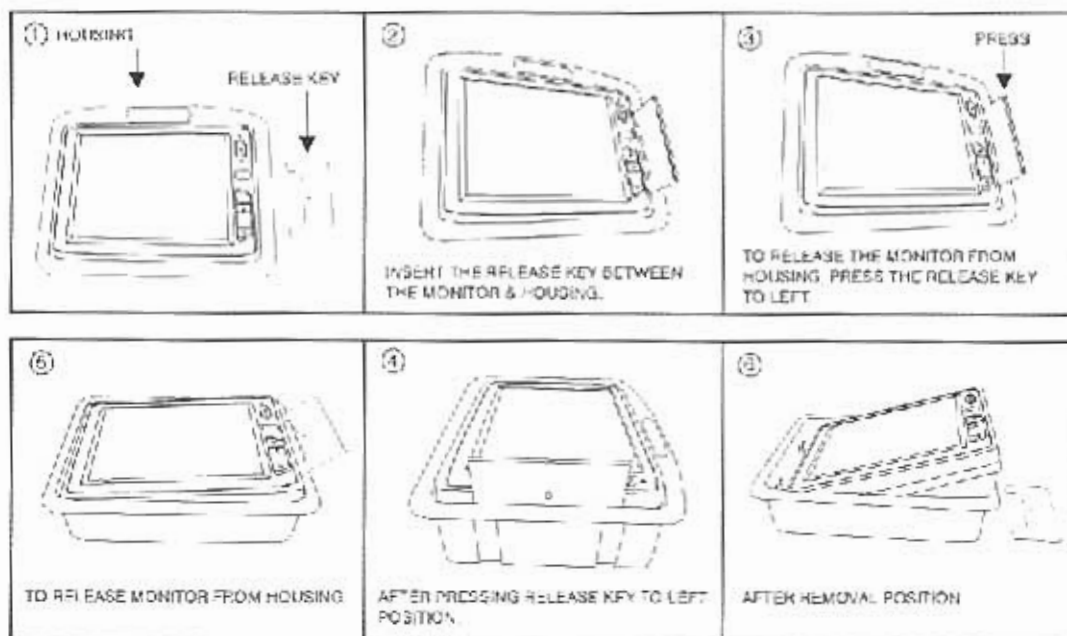
13) Make sure that the Master/Slave Monitor Switch (located on the bottom side of the Monitor) is set to the appropriate position. Refer to the drawing below.

NOTE: If both units are set to "Master" or "Slave" at the same time the result will be improper function.

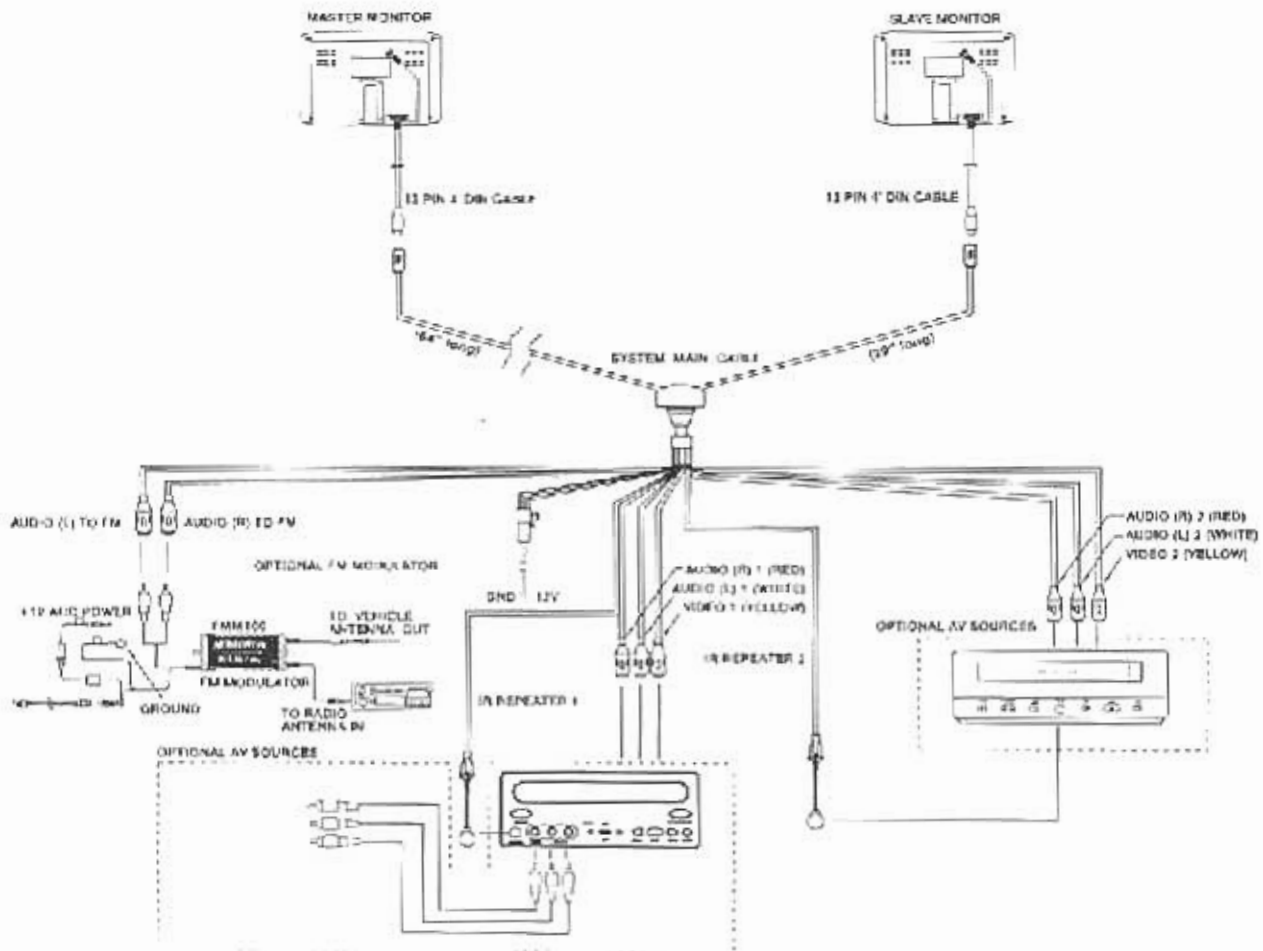
Master or Slave Monitor Switch



14) The supplied Release Key is for removing monitor from housing. Refer to the drawing below.



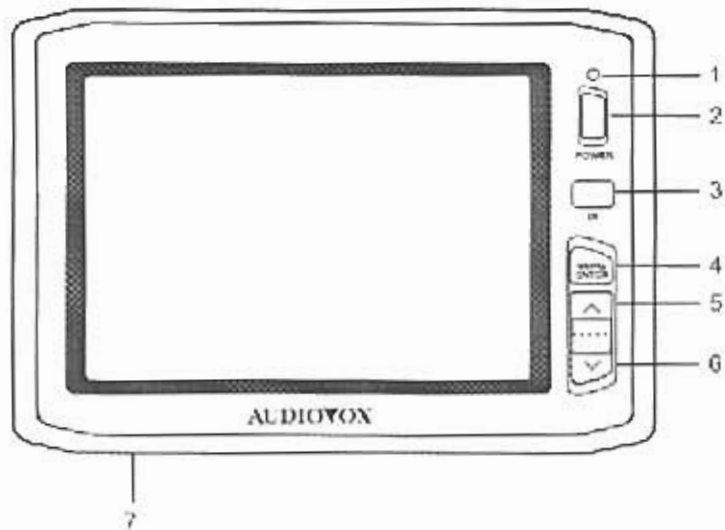
LCM5620PKG SYSTEM WIRING DIAGRAM



- 1.) Make sure the Master, and slave monitor have been installed properly, as described in the procedures as stated on pages 4,5, and 6.
- 2.) Connect the two 13 pin DIN terminals of the System Main Cable to the corresponding DIN terminals of Master Monitor and Slave monitor on the bottom of the seats. Label the DIN terminal of System Main Cable Master to connect to the Master monitor. The other DIN terminal of System Main cable should be labeled as Slave and connect to the Slave monitor.
- 3.) There are three RCA Jacks on the other end of the System's Main Cable, which are labeled as Audio #1L/Audio#1 R/video #1. These jacks need to be connected to the respective AV plugs. The AV cable come from AV source #1.
- 4.) The IR repeater LED that is labeled LED #1 is utilized to connect to AV Source #1. LED #1 has an adhesive that allows it to adhere to the AV Source #1 Remote Sensor Eye. Remove the backing covering the adhesive and place LED #1 directly over the Remote Sensor Eye. NOTE: In some cases you may need to offset the LED to achieve proper operation. Inside this LED cable there is a 2 pin JST terminal in series with the LED. Insert this terminal to AV source #1 if it has a 2 pin JST type socket, that can accept a direct coded 38kHz signal.
- 5.) Repeat item three and four, for connecting AV source #2.
- 6.) Both sources can now be controlled with the Master Monitor IR Repeater Circuit.
- 7.) The System Main Cable also gets connected to the vehicle's accessory power terminal.
- 8.) The two RCA Jacks on the system Main Cable, labeled as Audio L/Audio R for connecting the FM Modulator. Please refer to the wiring instructions of the separately purchased FM Modulator (Audiovox's model FMM100 is recommended).

Controls on Master Monitor and Master Remote Control Unit

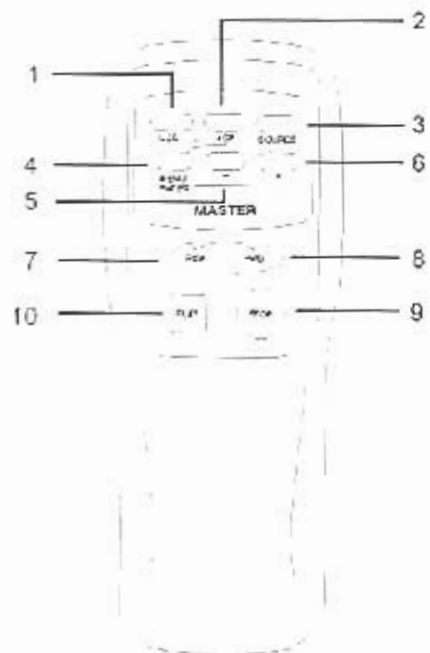
Master Monitor Panel Controls



- 1 Power LED Indicator
- 2 POWER On / Off Button
- 3 Remote Control Sensor (IR)
- 4 MENU/ENTER Button
- 5 Select Up / Button
- 6 Select Down / Button
- 7 M (Master) / S (Slave) Monitor Switch

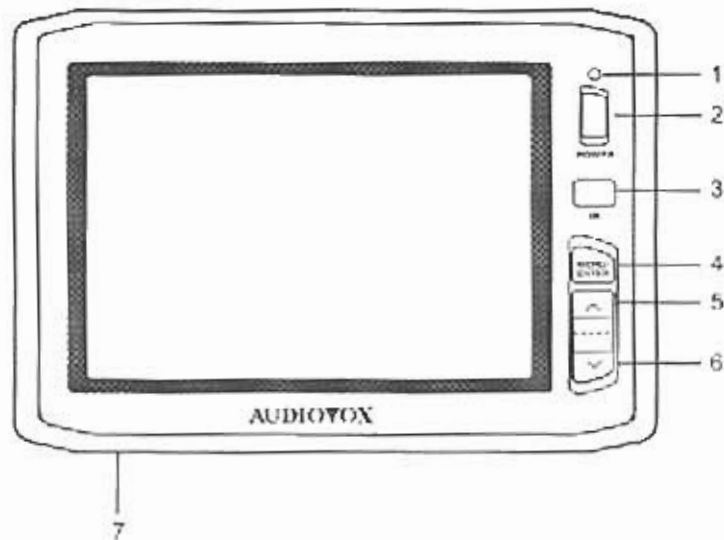
Master Remote Control Unit Buttons

- 1 LCD : Power On / Off Button for Master monitor
- 2 VCP : Power On / Off Button for Audiovox VCP
- 3 SOURCE : Button for selection of AV #1 and AV #2
- 4 MENU/ENTER Button
- 5 - : Select Down / Button
- 6 + : Select Up / Button
- 7 REW :Rewinds Tape
- 8 FWD : Fast Forwards Tape
- 9 PLAY : Plays Tape
- 10 STOP :Stops Tape



Controls on Slave Monitor and Optional Slave Remote Control Unit

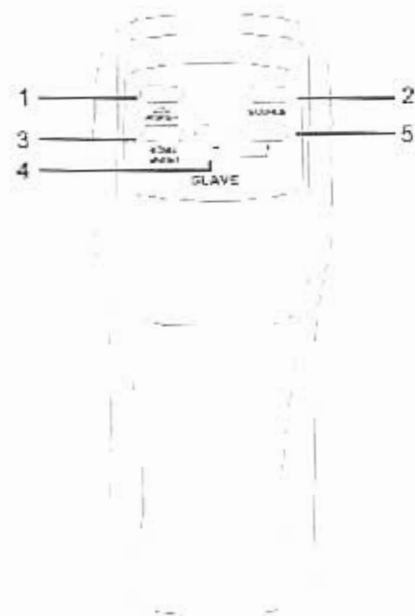
Slave Monitor Panel Controls



- 1 Power LED Indicator
- 2 POWER On / Off Button
- 3 Remote Control Sensor (IR)
- 4 MENU/ENTER Button
- 5 Select Up / Button
- 6 Select Down / Button
- 7 M (Master) / S (Slave) Monitor Switch

Slave Remote Control Unit Buttons

- 1 LCD : Power On / Off Button for Slave monitor
- 2 SOURCE : Button for selection of AV #1 and AV #2
- 3 Menu / Enter
- 4 - : Select Down / Button
- 5 + : Select Up / Button



OPERATION INSTRUCTION

1. Button Functions:

- a) There are four buttons on the front of the monitor: POWER, MENU/ENTER, "∧" and "∨".
- b) POWER : Pressing this button will turn the unit on/ off.
- c) MENU/ENTER : Pressing this button, will display the menu OSD. After opening the menu, it is used as the Enter function.
- d) With the menu displayed on the screen you may then use the ∧ or ∨ buttons to select from: Picture, Source, Audio (Master only) and Display off. When the appropriate item is highlighted you may then press the enter button to access that function, then use the ∧ or ∨ to adjust or switch the selected item.

NOTE: The above 4 buttons are also located on the Remote Control Unit.

- e) Source: This button is only located on the remote control, and it will select between AV1 and AV

2. OSD

- a) Press the Menu/Enter button, OSD as below:
For using the Master:

MENU
PICTURE
SOURCE
AUDIO
DISPLAY OFF

- b) Use ∧ or ∨ buttons to highlight the AUDIO item, then press Menu / Enter button, OSD as below :
AUDIO
AUDIO 1
AUDIO 2

- c) Use ∧ or ∨ buttons to select the audio for the FM Modulator. (Color blue means that audio source has been selected at the moment).

- d) The Slave monitor cannot select the audio source, so the OSD AUDIO does not appear in the menu.

MENU
PICTURE
SOURCE
DISPLAY OFF

- e) Select DISPLAY, then press the Menu/Enter button, this item will change to "DISPLAY ON", that means the source number selected will be displayed on the monitor until "DISPLAY OFF" is selected.

- f) Highlight the SOURCE and press Menu/Enter button, OSD as below :
SOURCE
AV 1
AV 2

Then, you can use ∧ or ∨ buttons to select from AV1 or AV2. The Master monitor can also operate the AV sources via the remote control sensor.

g) If you select PICTURE, OSD below : (NTSC format, including TINT, if video is PAL, the OSD will automatically change to PAL format (without TINT item in OSD).

NOTE: The unit will automatically select NTSC/PAL according to the input.

NTSC format :		PAL format :	
☀	BRIGHTNESS 32	☀	BRIGHTNESS 32
●	CONTRAST 32	●	CONTRAST 32
☐	COLOR 32	☐	COLOR 32
↕	TINT 00		RESET
	RESET		
		32	BRIGHTNESS
☀	32 BRIGHTNESS	☀	

h) In the above condition, if you highlight BRIGHTNESS and then press Menu/Enter button, OSD will display as below :

Then you can use ^ or v buttons to adjust it.

i) TINT and RESET OSD please refer to below picture :

↕ 00	TINT		RESET
.....	☀	BRIGHTNESS 32
		●	CONTRAST 32
		☐	COLOR 32
		↕	TINT 00

j) The OSD will automatically disappear if no buttons are pressed for 4 seconds.

☀ 52 BRIGHTNESS
 |||||

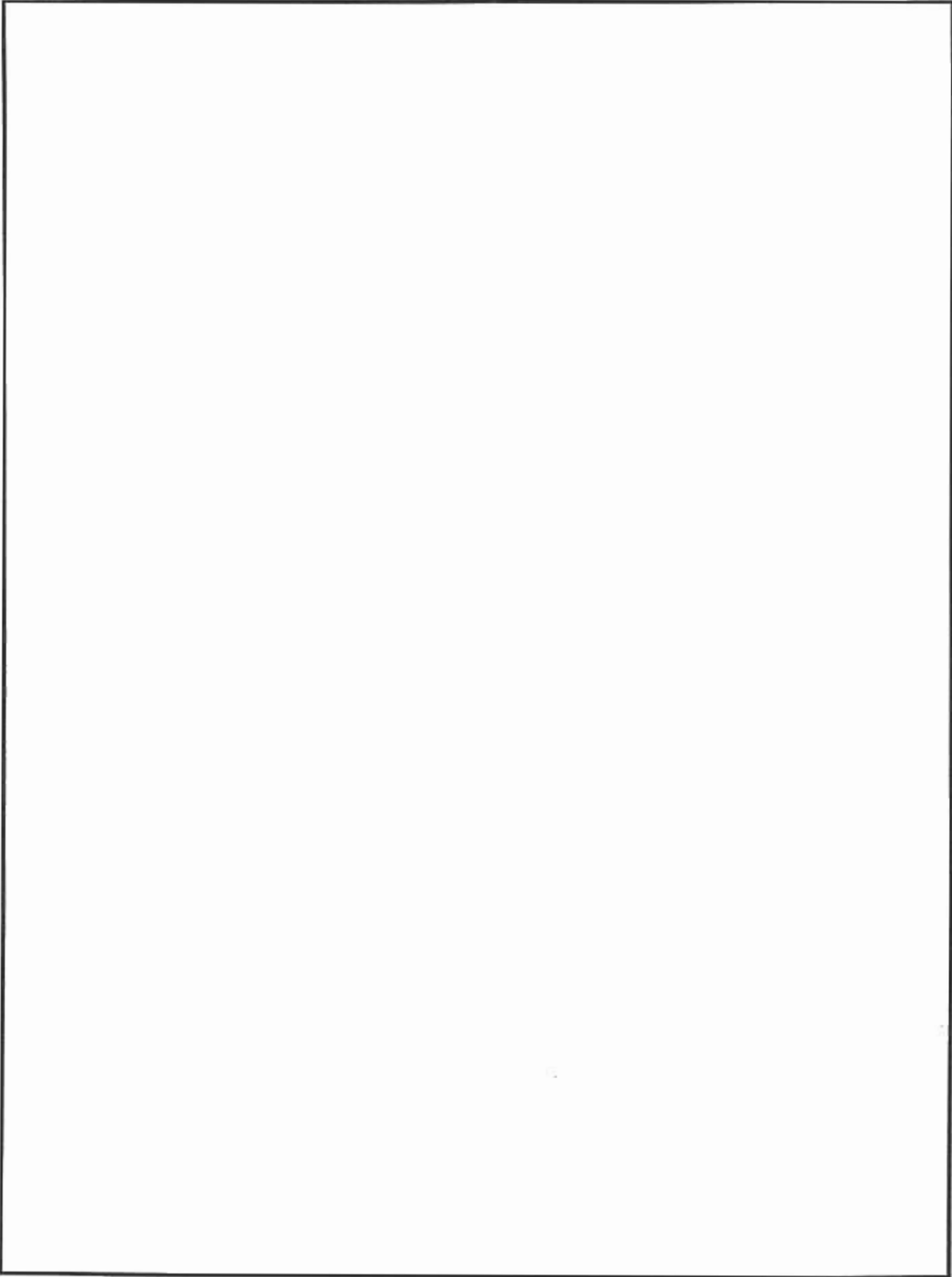


CAUTION

1. Do not operate the monitor at temperatures below 32°F (0°C) or above 104°F (40°C).
2. Keep the monitor clean and dry.
3. Always seek qualified personnel to perform repairs. Never attempt your own repairs.
4. Do not drop the monitor or expose to strong impacts.
5. Do not expose to direct sunlight for extended periods of time.

MONITOR SPECIFICATIONS

1. Type : TFT Active Matrix LCD
2. Display Screen Size : 5.6 inches (113.3 x 84.7mm) (W x H)
3. Resolution: 960 (W) x 234 (H)
4. Pixels: 224,640
5. Back Light : Cold Cathode Fluorescent Lamp
6. Power Source : +12 VDC
7. Power Consumption : 22W For 2 Monitors
8. Connection Terminals : Power Input 12V, Video/Audio Input Jacks (RCA) x2, IR Jacks x2, Audio L/R Out (for FM)
9. Operating Temperature : 32°F – 104°F (0°C – 40°C)
10. Storage Temperature : -4°F – 176°F (-20°C – +80°C)
11. Monitor Cabinet : 6.29 in x 4.52 in x 1.14 in (WxHxD)
Dimensions (160 x 115 x 29 mm)
12. Weight : 1.33 lbs (500g)
13. Video Format : PAL, NTSC (Automatic Switching)





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