AUDIOVOX

LCM640TV
OWNER'S MANUAL

Flip down LCD In-Vehicle Television Entertainment System
US Patent # D 413,856

Audiovox Corporation
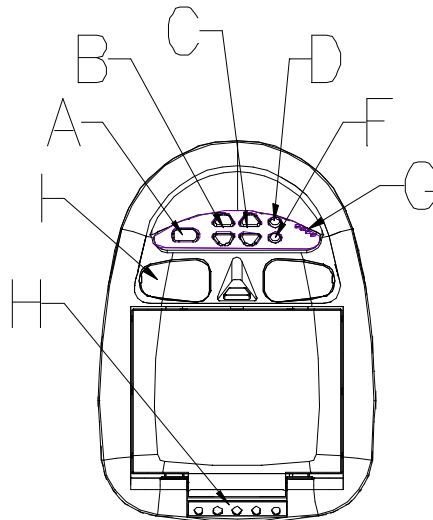150 Marcus Blvd.
Hauppauge, NY 11788
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Features

TFT Active Matrix Color LCD
4 Channel A/V Switching Built In (RCA Jacks Interrupt Source #3)
Audio Amplifier, Volume Control, and Headphone Jacks Built In
VCP, Game, DVD, A/V Input Jacks
Back lit Controls for Easy Night Time Operation
"Hide-Away" Screen When Not in Use
Built In TV Tuner
Infrared Remote Control Repeater Circuit (For wireless Video
Cassette and Tuner Functions)

Specifications

Video System:	NTSC Analog Composite Video (1V P-P, 75Ω)
A/V Switch:	4 Source Channel
Power:	10-16 VDC, Negative Ground
AVX Audio Outputs:	L&R Variable (800mV max, 8Ω load min.)
	L&R Fixed (300mV typical, 600Ω load min.)
Current Consumption (Stand by Mode):	40mA
Current Consumption (On, No VCP):	1.4mA
VCP Stand-by Mode:	140mA
VCP On Mode:	800mA
Current Consumption (VCP On):	2.2A
Audio Noise Floor @ 30kHz BW:	48dB
THD+N @ 1kHz:	A/V in 5%, TV in 3%
Cross Talk @ 1kHZ & 30kHz BW:	35dB
Maximum Input Level, Audio L&R:	500mV
Frequency Response, 20 Hz- 20kHz:	-11dB ~ -2dB
Frequency Response, 40Hz- 16kHz:	-4dB ~ 1.5dB
Channel Balance:	0dB
Volume Control:	0.3mV ~ 2.75V
Unit Weight:	1.5Kg

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Front Panel Features

A) Power Button: (dimly lit when in stand-by mode)
B) Volume Up/Down: Controls volume to headphone jacks
C) Channel Up/Down: Controls tuner channels
D) Source Select: Each press of this button selects the next source (1-3). Note that some sources may not produce an image, depending upon whether components are connected to all sources.
E) Auto-Program: Places the tuner into auto program mode. Auto program will scan all channels available and store active channels into memory for easy selection with the channel up/down buttons.
F) Source Indicator: The lighted LED indicates which source is currently active.
G) Monitor Flip Down Release Button: Press this button to lower the screen for viewing. Push the LCD panel up into place to lock in the "up" position.
H) Rear Jack Panel: Two headphone jacks and AUX input connectors for external A/V input (such as Camcorder or Game) source select #3.
I) Dome Lights: Since many installations of this video system will require mounting in the area of the vehicle's dome lights, dome lights have been incorporated into the video pod.
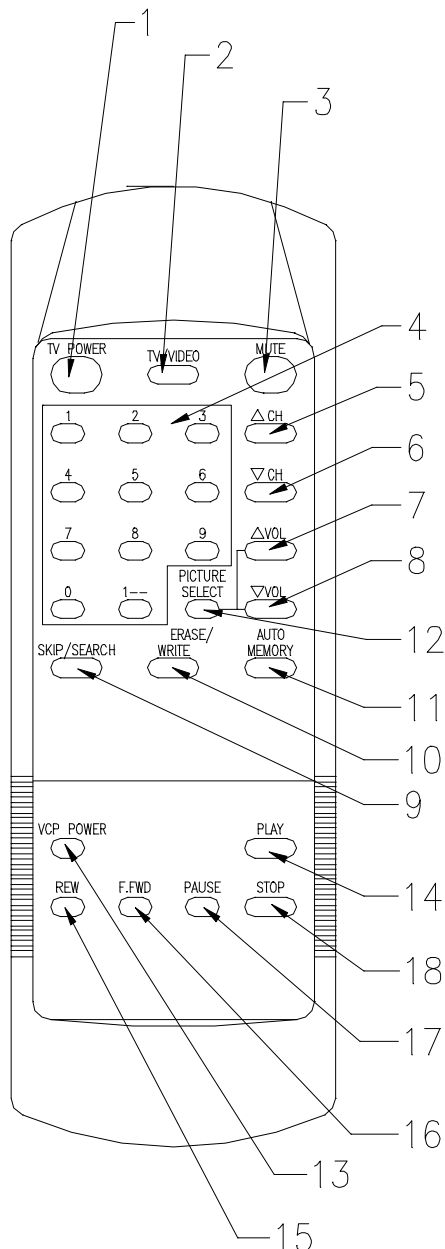
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Antenna Information

The following are a few points to consider in regards to TV reception in a mobile application.

Generally in a mobile application, the lower channels are the most difficult to receive due to the size of the antenna required to receive the signal.

When TV antennas are inside the vehicle, the TV signal can be obstructed by the outside metal of the vehicle. This will diminish UHF performance and may eliminate VHF reception altogether. VHF are channels 2-13 and UHF are channels 14-69.

Depending on the location of the antenna and the direction of the vehicle, some VHF signal may be received.

Remote Control Functionality

1) <u>TV Power:</u> Turns the unit on/off
2) <u>TV/Video:</u> Toggles between 3 available sources; Tuner/VCP/DVD (VCP 2).
3) <u>Mute:</u> Mutes headphone audio
4) <u>0-9:</u> Numbers for channel select
5) Δ <u>CH:</u> Channel Up
6) ∇ <u>CH:</u> Channel Down
7) Δ <u>Vol:</u> Volume Up
8) ∇ <u>Vol:</u> Volume Down
9) <u>Skip/Search:</u> Toggles On/Off. Skips channels that are not auto programmed
10) <u>Erase/Write:</u> Controls manual adding/deleting auto programmed channels. Press once to add, again to delete
11) <u>Auto memory:</u> Programs stronger stations into memory.
12) <u>Picture Select:</u> Toggles between contrast, brightness, color, and tint controls. Volume up and volume down are used to make adjustments.

<u>VCP Controls:</u> If a VCP is connected to source 2 or 3, these buttons will control functionality of the VCP. The IR emitter must be connected to the front of the VCP.

13) <u>VCP Power:</u> Toggles VCP power on/off
14) <u>Play:</u> Play tape in VCP
15) <u>REW:</u> Rewind tape in VCP
16) <u>FFWD:</u> Fast forward the tape in the VCP.
17) <u>Pause:</u> This button will stop current play, rewind the tape and replay tape from the beginning.
18) <u>Stop:</u> Stop the tape in the VCP.

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Notes

All systems have a built in Audio/Video input. When the unit is on source #3 and another external source is plugged into the RCA Audio/Video input jacks, source #3 is interrupted and the external source (considered source #4) will be the current source.

For audio output, there are a few scenarios that may apply to your system.
- A) All systems have two headphone jacks built into the rear of the Video pod. These are behind the TV when flipped down.
- B) Remote headphone jacks may be added and located throughout the vehicle.
- C) Additional speakers and amplifiers may be added throughout the vehicle.

Lights on the pod serve as dome lights. There is no switch on the pod that turns these off and on. The lights are turned on when a door is opened or the interior lights are turned on.

Troubleshooting

System	Cause	Possible Solution
Picture scrolls or is fuzzy	Antenna type or location	Change antenna or try antenna in a different location
Poor reception	Vehicle is moving	
Not receiving certain channels	Connections	Vehicle may be out of TV signal range. Check antenna connections. Check number of antenna connections- the more connections there are, the greater chance of signal loss, reduce number of connections if possible.
Unit will not respond to remote control	Sensor is blocked Batteries in remote control are weak	Clear path for sensor or clean sensor lens. Replace batteries.
No power to unit	Power connection Fuse blown at fuse panel	Check connections Replace fuse

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