USER'S MANUAL
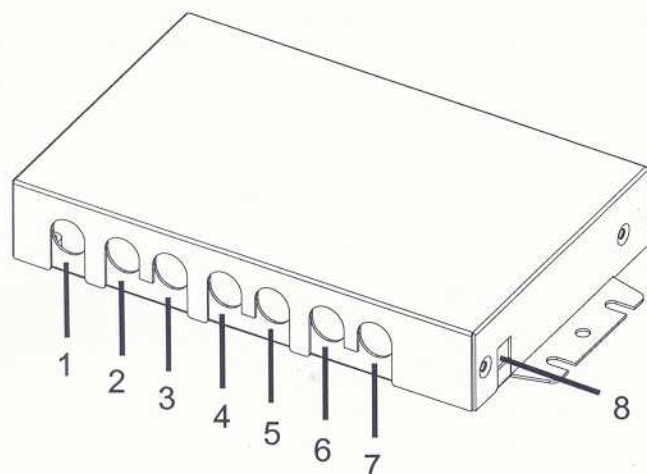## FTR-CBX3020

INPUT/OUTPUT PORTS
1. 12VDC INPUT JACK
2. DVD SOURCE INPUT
3. AUDIO/VIDEO OUTPUT TO MONITOR1
4. AUDIO/VIDEO OUTPUT RCA JACK
5. AUDIO/VIDEO INPUT
6. AUDIO/VIDEO OUTPUT TO MONITOR2
7. AUDIO/VIDEO INPUT
8. FM OUTPUT(MHz)
   (88.3/88.7/89.1/89.5/89.9/90.3)

ISOMETRIC

SPECIFICATIONS

OPERATION TEMPERATURE	0~60
STORAGE TEMPERATURE	-20~80
POWER CONSUMPTION	500mW 12VDC
AUDIO INPUT LEVEL	1Vp-p
VIDEO INPUT LEVEL	1Vp-p
FM FREQUENCY (MHz)	88.3/88.7/89.1/89.5/89.9/90.3

NOTICE : THE CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY
RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO
OPERATE THE EQUIPMENT.

IMPORTANT NOTE :TO COMPLY WITH THE FCC RF EXPOSURE COMPLIANCE REQUIREMENTS,
NO CHANGE TO THE ANTENNA OR THE DEVICE IS PERMITTED. ANY
CHANGE TO THE ANTENNA OR THE DEVICE COULD RESULT IN THE DEVICE
EXCEEDING THE RF EXPOSURE REQUIREMENTS AND VOID
USER'S ANTHORITY TO OPERATE THE DEVICE.

Owner's Manual

HMD-0702

Headrest Video Monitor with Built-in DVD

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. In the interest of safety, the unit should never be installed where it will be visible, directly or indirectly, by the operator of the motor vehicle.

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) this device must accept any interference that may be received, including interference that may cause undesired operation.

Safety Precaution

For safety reasons, when changing video disc it is recommended that the vehicle be not in motion, and that you do not allow children to unfasten seat belts to change disc or make any adjustments to the system. System adjustments can be accomplished using the remote control unit, while seatbelts remain fastened. Enjoy your entertainment system but remember safety of all passengers remains the number one priority.

Product Features

- 7-Inch Color TFT-LCD Panel with 16:9 aspect

- Built-in Top-loading Slot-in DVD loader.

- Infrared Transmitters for wireless Headphone

- Aux Input Source * 1 (3 RCA jacks)

- Monitor Input Source * 2 (Din jacks)

- Aux Monitor Output Source * 2 (Slave 3 RCA jacks)

- Monitor Output Source * 3 (Din jacks)

- Forward Remote Sensor on the Front Panel

- The unit with a Control Box

- 5 Control Buttons on the Front Panel---**MENU**, **UP**, **DOWN**, **POWER** and **SOURCE**

- OSD(On Screen Display) Control

- 12V DC Power Input

Table of Contents

Wiring and Installation
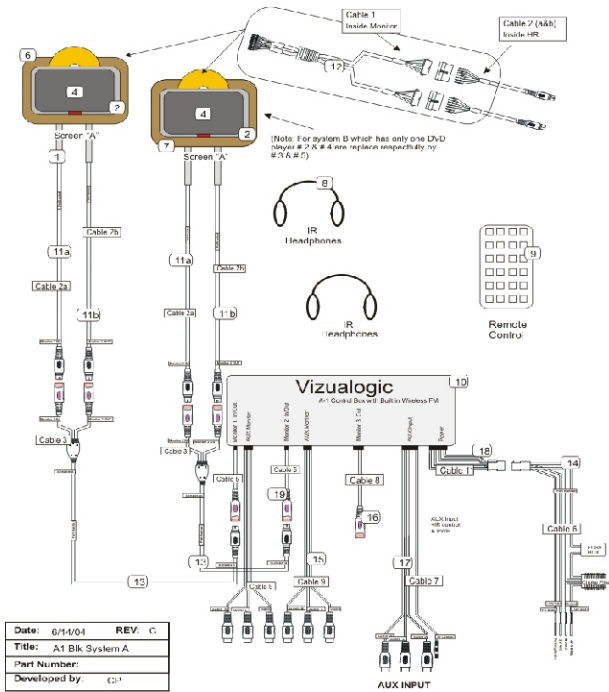
Control Buttons on Front Panel

Function Descriptions

MENU
   Enter and navigate the OSD menus (Main Menu and Hidden Menu).

UP
   Increase the value or navigate the options upwards.

DOWN
   Decrease the value or navigate the options downwards.

SOURCE
   Select the AV source among AV1/AV2/AV3

POWER
   Soft-power on/off.

IR Sensor
   Allow the remote controller to navigate the OSD(On Screen Display) on this unit and to control other accessories.
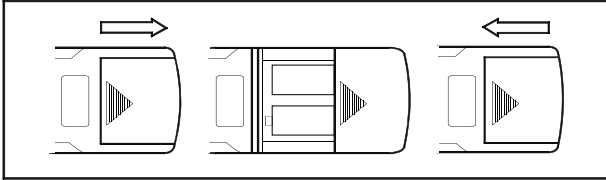
Infrared Transmitters
   Be used to transmit audio to the wireless headphone.

Level Lock and Release Latch
    Allow the user to adjust the viewing angle of LCD panel or
    lock the panel into the secure position.

Remote Control Operations

BATTERY INSTALLATION

Before attempting to operate your remote control, install the batteries as described below.

    (1)Turn the remote control face down.
       Press down on the ridged area of the battery cover and slide it off.
    (2)Install two "AAA" batteries as shown.
       Make sure that proper polarity(+ or -) is observed.
    (3)Slide the cover back until it clicks.

The remote control will operate the unit. It is not a universal remote control and will not control other equipments.

Function Descriptions

MONITOR   FUNCTION

MONITOR POWER
Press this button to turn the monitor ON. The current video source will be displayed on screen, and the picture will appear in a few seconds. Press the button again to turn the monitor OFF.

SOURCE
Any video equipment connected to the AV inputs can be used with the monitor by pressing this button. Each time thebutton is pressed, the AV source will change in the following seque- nce DVD Input Source.

DOWN
(1) Shift left or down OSD menu.
(2) Decrease the value of TINT, COLOR, BRIGHTNESS, or
     CONTRAST bar.

UP
(1)Shift right or up OSD menu.
(2) Increase the value of TINT, COLOR, BRIGHTNESS, or
     CONTRAST bar.

ZOOM
Select the screen-mode among wide/normal/cinema/zoom.
PICTURE
Press this button to enter OSD menu(Hidden menu) can be change the value of TINT, COLOR, BRIGHTNESS, or CONTRAST.
FM ON/OFF
Press this button to turn on Frequency Modulator. Press this button Again to turn off Frequency Modulator.
FM SELECT
Press this button to select Frequency Modulator channel.

DVD FUNCTION

DVD POWER
Press this button to turn the DVD ON. The current video
source will be displayed on screen, and the picture will
appear in
a few seconds. Press the button again to turn the DVD OFF.

EJECT
Eject disc from disc compartment or pull disc into the compa-
Rtment.

UP
Shift up DVD SETUP menu.

DOWN
Shift down DVD SETUP menu.

RIGHT
Shift right DVD SETUP menu.

LEFT
Shift left DVD SETUP menu.

ENTER
Make a selection.

RETURN
Return to previous menu screen or playing point.

SETUP
Navigate SETUP MENU. There are 4 pages to configure sys-
tem
(1)Geneal Setup Page.
(2)Audio Setup Page.
(3)Preference Page.
(4)Password Setup Page.

TITLE
Navigate the Title Menu included in the disc.

MENU
Go to Root Menu included in the disc.

AUDIO DOWN
Press this button to decrease DVD volume.

AUDIO UP
Press this button to increase DVD volume.

SUBTITLE
Change the subtitle language to another available language
or set off (only if the disc contains multiplesubtitle languages).

AUDIO
Change the audio language to another available language
(Only if the disc contains multiple audio languages).

REPEAT(Except VCD with PBC on)
Repeats part or all of a chapter, title, track, or an entire disc.

A-B(Except Mp3)
Repeat from point A to point B.

GOTO
Navigate the Goto Menu and go to the desired title, chapter,
track or song inside the disc.

DISPLAY
   Show information on the left-up corner on the screen inclu-
   ding Title, chapter/track, time elapsed, and time remained,
   or turn off the display.
PLAYMODE
   For mp3 use.
MUTE
   Press this button to shut off the sound at the headphone stat-
   ion. The screen will display that the sound has been turned
   off. Pressing the button again restores sound to the revious-
   ly set Level.
ZOOM
   (1) Enlarge the picture in the movie by 2x, 3x and 4x.
   (2) Shrink the picture in the movie by 1/2x,1/3x, and 1/4x.
PLAY
   Press this button to play a movie while disc is
   loaded into the disc compartment. For more information ,
   consult the DVD Basics section.
STOP
   Stop playing the movie or songs.
   STOP -> **PLAY**: Resume playing,
   STOP -> **STOP** -> **PLAY**: Resume from the point being
                                    stopped.
PAUSE
   Press this button to pause a movie while disc is
   loaded into the disc compartment. For more information ,
   consult the DVD Basics section.

SLOW
   Press this button movie will be play slow motion.
   There are 3 speed options to choose:1/2 , 1/4 , 1/8.
FR(Fast Rewind)
   Press button to search disc backward continuously. There
   are 5 speed options to choose like FF (Fast Forward) is.
FF(Fast Forward)
   Press button to search disc forward continuously. There are
   5 speed options to choose: **2X**, **4X**,**8X**,**16X**, and **32X**.

PREV
   Play the previous chapter or track.
NEXT
   Play the next chapter or track.
PBC (Video CD only)
   Turn the PBC (Play Back Control) on or off.
NUMBERS
   Decimal number: 0 to 9

OSD FUNCTION CONTROL

Turning the unit ON or OFF

OSD MAIN MENU

Press MENU key to enter OSD main menu, then select
Item in the menu by continuously hitting MENU key.

CONTRAST

Adjust CONTRAST value from 0 -32 (default:16)

BRIGHTNESS

Adjust BRIGHTNESS value from 0-32 (default:16)

COLOR

Adjust COLOR value from 0-32 (default:16)

TINT

Adjust TINT value from 0-32 (default:16)

SHARPNESS

Adjust SHARPNESS value from 0-32 (default:16)

SCREEN AUTO(AUTO/ON/OFF)

Set the unit condition when power connected the system

AUTO: When power connected the machine, the machine
will soft-power on or off, It based on the machine
was soft-power on or off last time.

ON: When power connected the machine, the machine
will soft-power on.

OFF: When power connected the machine, the machine
will not soft-power on.

WIDE SCREEN

Select the screen-mode among wide/normal/cinema/zoom.

RESET DEFAULT

Reset all OSD adjust value to default.(except screen-mode)

OSD HIDDEN MENU

Press MENU key for 5 seconds to enter or leave OSD hidden menu then select item in the menu by continuously hitting MENU key.

IR PHONE(OFF/A/B)

Select Infrared Transmitters channel.

FM CHANNEL(OFF/CH1/CH2/CH3/CH4/CH5/CH6)

Select Frequency Modulator channel.

MIRROR(OFF/ON)

Set display screen mirror.

Remote Sensor

The unit incorporates an infrared sensor which relays signals from the remote control to be controlled simply by pointing its remote control at the remote sensor eye. This provides control of auxiliary equipment such as an Video Cassette Player. The infrared sensor can relay signals from any manufacturer 's remote control to its respective component connected to the AUX input, such as a DVD player. In this case you must use the remote control supplied with the DVD player.

A c c e s s o r i e s

Wireless Headphone

This unit includes a built-in dual channel infrared trans-
mitter for use with a wireless headphone. The volume
can then be adjusted with the controls on each headset .
The wireless headphone must be used within a line of
sight from the transmitter, as infrared transmission, like
visible light travels only in a straight line.

DVD Basics

To get the optimum use out of DVD, make sure you read this section completely.

Regional Coding
Both the DVD player and disc are coded by region. These regional codes must match in order for the disc to play. If the codes don't match, the disc won't play. This unit's code is region 1. Other regional codes can't be played in this unit.

Types of Discs your DVD Will Play
DVD-Video: DVD contains video.
CD-DA: CD contains musical or sound content only.
CD-Video: CD contains movie only.
CD-R/RW: A disc that contains audio files (for example, a CD-R with downloaded Mp3 Files), MPEG, or JPEG files.

Loading and Playing Discs
Before you load a disc, make sure that it is compatible with the player. Note that the following discs **CANNOT** be used with this player

Optical disc
    CD-1, CD-ROM, DVD-ROM
Mini disc
    CDG(audio only, not graphics).

Loading and Playing a Disc

When you press the **POWER** button the unit is on and in DVD mode. Put the disc printed-side up into the disc compartment about halfway into the slot .The disc will load automatically and begin to play momentarily.

Settings and Adjustments
This chapter describes how to set and adjust using the on-screen setup pages included in the SETUP MENU.

Using the Setup Menu
Using the setup display , you can do the initial setup ,adjust the picture quality , and set the various output. You can also set a language for the on-screen display and the setup display, and limit playback by children.
   (1) Press the **SETUP** button to display the icons and pages on the display screen.
   (2) Select the desired page you want by using ◀▶ buttons to move the cursor.

To Cancel Using The Setup Display
Press the **SETUP** button on the remote.

Setting the Language for On-Screen Display
Press the **SETUP** button, use the buttons ▼ navigating to General Setup Page, then use the ◀▶ button to select OSD Lang.

OSD(On Screen Display) Language Menu
The OSD Lang sub-menu allows the user to select the language for the on-screen display. Press ▼▲ and then use the buttons ▶ to select the desired language. The user can select either English,French or Spanish for the OSD language.
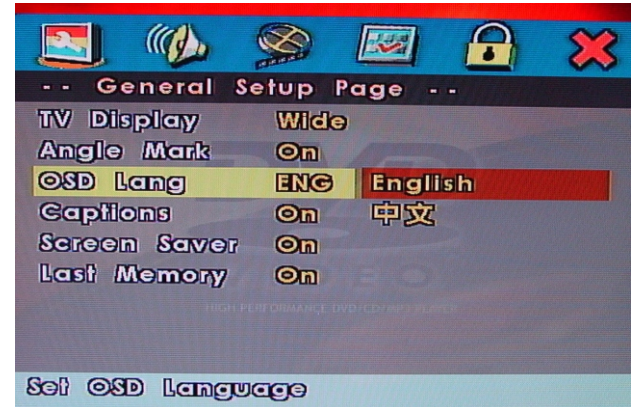
Settings for Display

Press the **SETUP** button, use ◀▶ buttons navigating to General Setup Page, and then the ▼ button to select TV Display sub-menu.The setup allows you to adjust screen setting(aspect ratio). Press ▶ and then use the buttons ▼▲ to select the appropriate setting. The options are as follows:

Normal/PS *(Pan and Scan)*

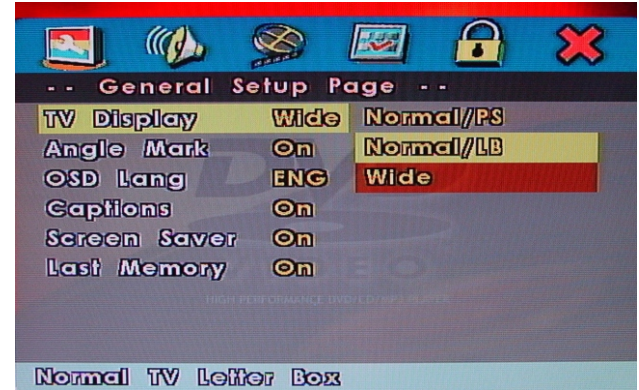This displays the wide picture on the screen with a portion of the left & right sides removed.

Normal/LB *(Letter-Box)*

This display the wide picture with black bands on the upper and lower portions of the screen.

Wide *(16:9)*

This option is choose if the LCD panel is of wide screen.

Then press **ENTER** to confirm the screen.

Default Settings

Press the **SETUP** button, and use buttons ◂▸ and ▸ going to the Default sub-menu under preference Page. The default setup allow you to reset all options to factory defaults. Press ▾ and then press **ENTER** to carryout the reset.

Note : This function will not effect the parental setting.
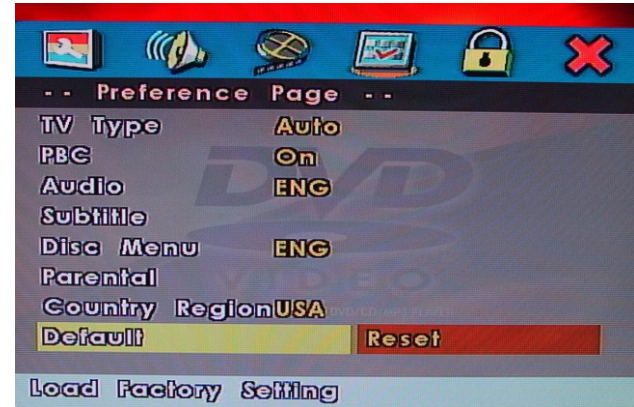
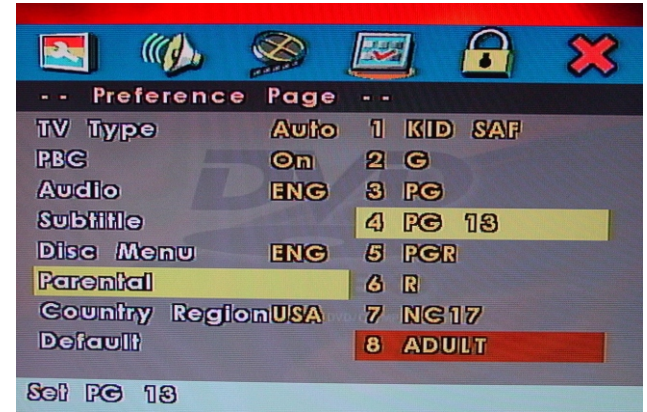## Settings for Parental (Parental Control)

This section of the SETUP MENU allows users to control the content of movie playback from **G** to **ADULT**. The parental control function allows you to limit viewing to your preference.

1. After navigating to the Parental sub-menu under Preference Page, use the ▼▲ buttons to select from:

   KID SAF (Children)
   G
   PG
   PG 13
   PGR
   R
   NC-17
   ADULT

Note : The lower the value , the more strict the limitation.

2. Press the **ENTER** button to confirm the selection.

3. Input a password in 4 digits using the numeric buttons then press the **ENTER** button.

Note: The default password is 136900.

Settings for Password(Parental Control Password)

Press the **SETUP** button and navigate to Password sub-memu under Password Setup Page. The menu appears and allows you to change the parental control password. Press ▶ and then press **ENTER**.

OLD PASSWORD

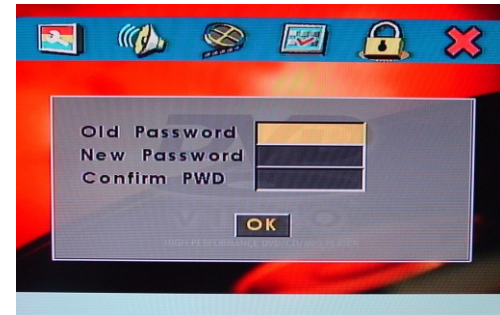Input the old password or the default password (4digits).

NEW PASSWORD

Input a new password (4 digits) using numeric buttons.

CONFIRM PWD

Confirm the new password by entering the same new password again.

Then navigate to the **OK** button and press **ENTER** to implement it.

Playing Audio CD

When playing an audio CD, the DISPLAY banner appe-ars automatically. It displays the current track and the amount of the time for that track playing, the total amo-unt of time on the disc and the current time running on the disc. Press the DISPLAY button on the remote to display the DISPLAY banner. The options below show you what happens when you press the **DISPLAY** button.

Press DISPLAY(**1x**)
" *Single Elapsed* " appears along with the current track playing and the time of that track .

Press DISPLAY(**2x**)
" *Single Remain* " appears along with the current track playing and the amount of time left.

Press DISPLAY(**3x**)
" *Total Elapsed* " appears along with the current track playing and the total time playing on CD.

Press DISPLAY(**4x**)
" *Total Remain* " appears along with the current track playing and the amount of time left on CD.

Using the REPEAT Feature

The default mode for the REPEAT feature is OFF. Pres-sing **REPEAT** button consecutively changes the REPEAT options as follows:
   Track - repeat the track that is playing.
   All - repeat the disc that is playing.

 As you toggle through the options, the REPEAT option changes that time. The track repeats once that track has ended. The selected repeat option loops repeatedly until you turn it off.

Playing MP3 CD

MP3 is the format for storing digital audio. An audio CD -quality song can be compressed into the MP3 format with very little loss of quality, while taking up much less space. CD-R/RW discs that have been encoded in MP3 format can be played on your DVD player.

Selecting Folders and Songs
When an MP3 disc is inserted in the player, the navigation screen appears automatically. You can change folders and songs through navigating the file system. The DVD player plays the songs in order they were burned to the disc.

1. If a disc is playing, press **STOP**. Press the **UP** or **DOWN** arrow button to go through the folder list on the left side of the navigation screen.
2. Once the folder you want is highlighted, press **ENTER.**

3. Press the **UP** or **DOWN** arrow button going through the song list and highlight the song you want. Press **ENTER** to begin the playback of the highlighted song.
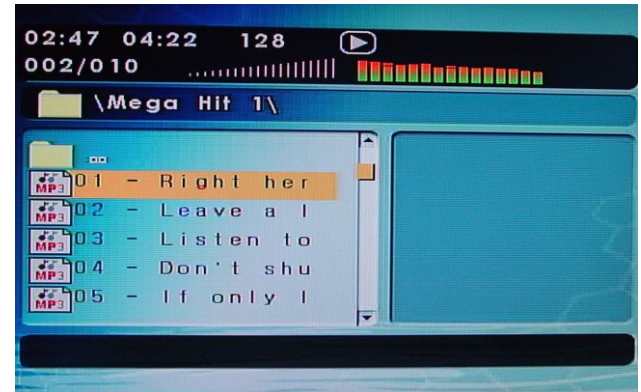
Skipping Songs

Use **NEXT**(▶▶) button on the remote control to move to the next song. Use the **PREV** (◀◀) button to move to ◀◀ The beginning of the currently playing song. Press the button 2 times to move to the previous song.

Selecting a Play Mode

You can choose what order the songs will play on a disc temporarily. The FOLDER play mode is the default. To access the play mode options, press **REPEAT** button.

The play mode options are as follows:
   Single:Play a selected song.
   Folder:Play the folder in the order the songs were re-
           corded.
   Random:Play the songs in the random order.
   Shuffle:Play the songs in random order (from within
           the selected folder).

Using the REPEAT Feature

The default mode for the repeat feature is OFF. Pressing **REPEAT** consecutively changes the repeat option:

   Repeat One - repeat the songs that is playing.
   Repeat Folder - repeat the folder that is playing.

Warnings

❖ Do not use any solvents or cleaning materials when cleaning the video system.
❖ Do not use any abrasive cleaners, they may scratch the screen. Use only a lightly dampened lint free cloth to wipe the screen if it is dirty.
❖ Lock the LCD screen in the fully closed position when not in use.
❖ Before putting on headphones always adjust the volu- me setting to the lowest position.
❖ Remember to leave the dome light switch in the off or auto positions when the vehicle is unattended, as the dome lights, if left on, can drain the vehicle battery.
❖ Do not put pressure on the screen.
❖ Caution children to avoid touching or scratching the screen, as it may become dirty or damaged.

Trouble Shooting

(Q1) IR Sensor Inoperative
    (1) Verify that the batteries in the remote are fresh.
    (2) Verify that the remote sensor eye is not obstru-cted.
    (3) Verify that the infrared transmitter is affixed ov-er the sensor eye of the component to be contr-olled.

(Q2) No Picture
    (1) Verify that the correct video input mode is used on the TV.
    (2) Verify that the video cable is plugged into jack securely.

(Q3)No Sound
    (1) Verify that the correct audio input mode is used on the TV.
    (2) Verify that the audio cable is plugged into jack Securely.

Specifications

LCD Backlighting	CCFL
Resolution Pixels	1440(W)X234(H)
Operation Temperature	0-60°C
Storage Temperature	-20-80°C
Expected Backlight life	10,000hours
Sensitivity	35db
Video Display System	NTSC
Audio Output	0.5W@16S
Operating Voltage	11 to 16 VDC