# Panasonic svga.Monitor/Receiver Operating Instructions

# CT-36VG50

# **Color Video Monitor/Receiver**

# **Operating Instructions**



CT- 36VG50

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# **Specifications**

Power Source: Channel Capability:

Video Input Jacks (2): Audio Input Jacks (2): To Audio Amp Jacks: S–Video Input Jack (2): DTV Input Jacks: Stereo Sound: Surround Sound:

#### 181 channels (See chart) VHF 2~13, UHF 14~69, Cable 125 channels 1V p-p, 75 ohm, phono jack type 500mV rms, 47K ohm 0~2.0V rms 4.7K ohm S-Video (Y-C) Connector Component Video (Y, Ps , R ) NTSC with DBX Noise Reduction Matrix

120V ac, 60Hz

#### **Channel Capability Chart**

BAND	CHANNELS
VHF	12
UHF CABLE (Mid–Band)	56 15
CABLE (Super Band)	
CABLE (Hyper Band) CABLE (Ultra Band)	28 56
TOTAL CHANNELS	<u>181</u>

#### **Computer Monitor Specifications**

PC and Mac Compatible	Yes
Viewable Image Size	36.0 inches
Dot Pitch	Data Grade
Multi-scan Rate	Yes
Horizontal Frequency Range	15 kHz to 38 kHz
Vertical Frequency Range	50 Hz to 120 Hz
Max. Data Resolution	800 x 600 @ 60 Hz
Linearity Correction	Automatic
S-Curve Correction	Yes
Dynamic Astigmatism and	
Focus Correction	Yes
Audio Input-computer	Mini–jack on front panel
Computer Input	2-Front and rear 15-pin connector

#### Signal Capability Chart

Signal	Format	Horiz.	. Freq.	Vert.	Freq.
NTSC		15.75	kHz	60	Hz Interlaced
VGA	640 X 480	31.5	kHz	70	Hz
VGA text		31.5	kHz	70	Hz
VGA	640 X 480	31.5	kHz	60	Hz
SVGA	800 X 600	37.9	kHz	60	Hz
MAC2	640 X 480	35	kHz	66.6	Hz
	are subject to change w	ithout notice	or obligation	on.	

# **Safety Instructions**



WARNING: To reduce the risk of electric shock do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.



The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

**Note To CATV System Installer:** This reminder is provided to direct the CATV system installer's attention to Article 820–40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

#### **Safety Instructions For Television Receivers**

- 1. Read and apply the operating instructions provided with your television receiver.
- 2. Read all of the instructions given here and retain them for later use.
- 3. Unplug this television receiver from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use attachments not recommended by the television receiver manufacturer as they may cause hazards.
- 5. Do not use this television receiver near water. For example: Avoid placing it near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
- 6. Do not place this television receiver on an unstable cart, stand or table. The television receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television receiver. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



- 7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television receiver and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the television receiver on a bed, sofa, rug or other similar surface. This television receiver should never be placed near or over a radiator or heat register. This television receiver should not be placed in a built–in installation such as a bookcase unless proper ventilation is provided.
- 8. Operate only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your television dealer or local power company. For television receivers designed to operate from battery power, refer to the operating instructions.
- 9. This television receiver is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If

the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

- Do not allow anything to rest on the power cord. Do not locate this television receiver where the cord will be damaged by people walking on it.
- 11. Follow all warnings and instructions marked on the television receiver.
- 12. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- 13. Never push objects of any kind into this television receiver through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television receiver.



- 14. If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810 of the National Electrical Code and in Canada Part 1 of the Canadian Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead—in wire to an antenna discharge unit, size of grounding conductors, location of antenna—discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.
- 15. For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power–line surges.
- 16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 17. Unplug this television receiver from the wall outlet, and refer servicing to qualified service personnel under the following conditions:
  - a. When the power cord or plug is damaged or frayed.
  - b. If liquid has been spilled into the television receiver.
  - c. If the television receiver has been exposed to rain or water.
  - d. If the television receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television receiver to normal operation.
  - e. If the television receiver has been dropped or the cabinet has been damaged.
  - f. When the television receiver exhibits a distinct change in performance this indicates a need for service.
- 18. Do not attempt to service this television receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 20. Upon completion of any service or repairs to this television receiver, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.
- 21. WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- 22. CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
- **NOTE:** This equipment is designed to operate in the U.S.A., Canada and other countries where the broadcasting system and AC house current is exactly the same as in the U.S.A. and Canada.

#### Important Information Regarding Use of Video Games, Computers, Teletext or Other Fixed Image Displays.

The extended use of fixed image program material can cause a permanent "shadow image" on the picture tube. This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible picture tube deterioration can be limited by observing the following steps:

- A. Reduce the brightness/contrast setting to a minimum viewing level.
- B. Do not display the fixed image for extended periods of time.
- C. Turn the power off when not in actual use.
- **NOTE:** The marking or retained image on the picture tube resulting from fixed image use is not an operating defect and as such is not covered by Warranty. This product is not designed to display fixed image patterns for extended periods of time.

# Introduction

#### **Congratulations on Your New Purchase**

Your new TV/Monitor features an all solid state chassis which is designed to give you many years of enjoyment. It was thoroughly tested and adjusted at the factory for best performance.

In order for you to take full advantage of your new TV/Monitor, please read and follow the installation and operating instructions contained herein.

#### **Customer's Record**

The model and serial number of this product may be found on its back cover. You should note the model and serial number in the space provided and retain this book as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model Number: \_\_\_\_\_\_ Serial Number: \_\_\_\_\_

You may register your new television set on the Internet at: http://www.prodreg.com/panasonic

For Customer Assistance: Call the Panasonic Customer Call Center, 2F-3 One Panasonic Way, Secaucus, NJ 07094 (Headquarters) 800-211-PANA (7262), Monday-Friday (9 a.m-9 p.m EST), Saturday-Sunday (9 a.m-7 p.m EST),

A	verage Powe	er Consumpti	on
TV Mode	VGA Mode	SVGA Mode	Standby Mode
180W	170W	175W	1.7W

# **IMPORTANT INFORMATION**

#### FCC STATEMENT:

This equipment was tested and found to comply within the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reposition or relocate the receiving antenna.
- Increase the separation between the equipment and radio/TV receiver.
- Connect the equipment into an outlet on a circuit different from that to which the radio/TV is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

#### **FCC CAUTION:**

Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor not expressly approved by Matsushita Electric Corporation of America could cause harmful interference and would void the user's authority to operate this device.

To assure continued compliance, the shielded video cable with bonded ferrite cores provided must be used when connecting this TV to a computer device. (Part # TSX4515–3). The TDK EMI filter, also provided, Part #ANF–106U, must be used to plug this TV into a grounding type outlet.

#### **CANADIAN NOTICE:**

This class B digital apparatus meets all requirements of the Canadian Interference–Causing Equipment Regulations.

#### **AVIS CANADIEN:**

Cet appareil numérique de la classe B respecte toutes les exigences du règlement sur le matériel brouilleur du Canada.

Important: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. FCC Declaration of Conformity **Responsible party:** Matsushita Electric Corporation of America One Panasonic Way Secaucus, NJ 07094 U.S.A. Telephone number: 1-800-211-7262 9 a.m. to 9 p.m., M-F, EST) 9 a.m. to 7 p.m., Sat-Sun, EST) This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, Three-wire plug with EMI filter and (2) this device must accept any interference received, including interference that may cause undesired operation.

# Installation

#### Video Monitor/Receiver Location

This video monitor/receiver is intended to be used with an optional stand. Consult your dealer for available options. Locate for comfortable viewing. Avoid placing where sunlight or other bright light (including reflections) will fall on the screen. Use of some types of fluorescent lighting may reduce remote control transmitter range.

Adequate ventilation is essential to prevent internal component failure. Keep away from areas of excessive heat or moisture. To insure optimum color purity do not position equipment containing magnets (motors, fans, external speakers, etc.) nearby.

#### **Optional External Equipment Connections**

The Video/Audio connections between components can be made with shielded video and audio cables. For best performance, video cables should be of 75 ohm type coaxial shielded cables. Cables are available from your dealer or electronic supply house.

Before you purchase any cables, check out the type of output and input connectors your various components require. Also determine the length of cable you will need.

#### **Power Supply Cord**

MAKE SURE PLUG IS INSERTED FULLY INTO THE EMI FILTER. SEE PAGE 7

ILLUSTRATION.

This product is equipped with a three-wire grounding type plug-a plug with two blades and a third pin which is round. This plug will only fit into a grounding type outlet.

This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. DO NOT DEFEAT THE SAFETY PURPOSE OF THE GROUNDING TYPE PLUG.

#### **Remote Control Battery Installation**

Batteries: Use two "AA" batteries.

- 1. Remove the battery compartment cover on back of the remote.
- 2. Install the batteries in the battery compartment. (Polarity (+) or (-) must be correct.)
- 3. Reattach the battery cover.

#### Helpful Hints:

For frequent Remote Control users, replace old batteries with Alkaline batteries for longer life.

#### **Precaution on Battery Use**

Incorrect installation can cause battery leakage and corrosion that will damage the Remote Control.

#### **Observe the Following Precautions:**

- 1. Batteries must be replaced as a pair.
- 2. Do not combine a used battery with a new one.
- 3. Do not mix battery types (Example: "Zinc Carbon" with "Alkaline").
- 4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
- 5. Battery replacement is necessary when Remote Control reacts sporadically or stops operating the television.

#### NOTE:

Whenever you remove the batteries to replace them, you may need to reset the Remote Control Infrared Codes. We recommend that you initially record the codes in the Infrared Remote Codes for Specific Components section, prior to setting up the remote.



# Installation (cont'd.)

#### TV Antenna/Cable Connections

Antenna Connection - For proper reception of VHF/UHF channels, an external antenna is required. For best reception, an outdoor antenna is recommended. In the SETUP menu, set the MODE to TV. (Refer to Antenna Mode section.)



Typical VHF/UHF Antenna



Cable Connection - For reception of cable channels, connect the cable supplied by your local cable company. In the SETUP menu, set the MODE to CABLE. (Refer to Antenna Mode section.)

#### Incoming Cable from Cable Company



NOTE: Certain cable systems offset some channels to reduce interference, or have premium (scrambled) channels. A cable converter box is required for proper reception. Check with your local Cable company for compatibility requirements.

#### **Other Video Equipment**

VCRs, Video Disc Players, Computers, TV games, and DSS equipment can also be connected to the antenna input connection.

# Care and Cleaning

#### Picture Tube (Turn television off)

Use a mild soap solution or window cleaner and a clean cloth. DO NOT USE ABRASIVE CLEANERS. Avoid excessive moisture and wipe dry.

#### **Plastic Cabinet**

Wipe the cabinet with a soft cloth dampened with water or a mild detergent solution and wipe dry with a soft clean cloth. Avoid excessive moisture. Do not use benzene, thinners or other petroleum-based cleaners.

#### Remote Control Transmitter

Use a soft cloth slightly moistened with a mild detergent and then wipe dry with a soft clean cloth. Avoid excessive moisture. Do not use benzene, thinners or other petroleum-based cleaners.

# Location of Controls (TV/Monitor)



#### **Quick Reference Control Operation**

- 1) Power Button Press to turn television ON or OFF.
  - ) Volume Buttons Press to adjust Sound Level, Audio and Video Menus and to select operating features when menus are displayed.
- 3 Channel Buttons Press to select programmed channels or to highlight desired features when menus are displayed.
- (4) Action Button Press to display Main Menu and access or exit On Screen feature and Adjustment Menus.
- Input Button TV Mode press to select TV or one of two Video Inputs. PC Mode press to select Front or Rear PC Input.
- (6) Audio Input Use Front PC Audio input jack when connected to a PC sound source Audio output.
- (7) PC Input Connect to a computer having a 15-pin output terminal.

## Location of Controls for the Home Theater Remote Unit



Home Theater Remote Control TNQ2AE012

#### **Basic Remote Control Functions**

The following is a basic overview of the remote control unit for TV/Monitor operation. Ensure the TV mode button is selected by initially pressing A.

Power Button - Press to turn the TV ON or OFF. (1) Volume Buttons - Press to adjust TV sound level. Use 2) with Channel buttons to navigate in menus. Channel Buttons - Press to select channels. Use with 3 Volume buttons to navigate in menus. Action Button - Press to display Main Menu and access (4) or exit On-Screen feature and Adjustment Menus. Input Button - Press to select TV or one of two (2) Video (5) Inputs. Also used to select Front or Rear PC Input. Mute Button - Press to mute sound. A second press 6) returns sound. Numeric Keypad (0 through 9 Buttons) - Press  $\overline{7}$ desired channel number to access any channel. R-Tune (Rapid Tune) Button - Switches between two (8) (2) channels. Recall Button – Press to display Time, status of Sleep (9) Timer, Channel, Video Mode, Channel Caption (Station Identifier), and Audio Mode. Multi Button - Programmable to operate up to six (6) (10) Remote Function buttons simultaneously. VCR Function Buttons - Programmable to operate (11) many brands of VCR's. Mode Selection Buttons - Selects the operation mode (12) for the remote control. VCR/DSS Channel Buttons - These buttons are used (13) to select VCR or DSS channels (Up/Down).

#### **Helpful Hints:**

If the selected component does not respond to the remote control, ensure that the proper mode is selected. First, press the Mode Selection Button that corresponds to that component. For example, after first pressing the TV mode button, the remote will remain in the TV mode for any following commands. If a different mode button is pressed while operating the television, the TV mode button must be pressed again to reset the TV mode condition.

# Remote Control Quick Reference Functional Key Chart

KEY	MODE	FUNCTION
	TV VCR, VCR 2 CABLE, DSS	Selects Channel Selects Channel Selects Channel
1 2 3 4 5 6 7 8 9	RECEIVER/AMPLIFIER	<ul> <li>④ Selects Tuner</li> <li>⑤ Selects CD Player</li> <li>⑥ Selects Tape Cassette Player</li> <li>⑦ VCR 1</li> <li>⑧ VCR 2</li> </ul>
0	CD PLAYER	Selects Track Number
	LD PLAYER	Selects Track Number
(MLT)	ALL COMPONENTS	Programmable Button That Can Operate Up To Six (6) Remote Functions At Once
INPUT	т	Selects the TV Input Mode Also Selects Front or Rear PC Input
POWER	ALL COMPONENTS	Turns On and Off Selected Components
MUTE	TV, DSS, VCR, VCR 2 LDP CABLE RECEIVER/AMPLIFIER	Mutes TV Audio Mutes Audio Mutes Audio
(F)	τν	TV Mode Selection for Remote Control
CEL	CABLE	Cable Mode Selection for Remote Control
DSS	DSS (DIGITAL SATELLITE SYSTEM)	DSS Mode Selection for Remote Control
	VCR	VCR Mode Selection for Remote Control
(RE)RR	RECEIVER/AMPLIFIER	Receiver/Amplifier Mode Selection for Remote Control
(0)	COMPACT DISC	CD Mode Selection for Remote Control
RUA	CASSETTE DECK, VCR 2, DVD	AUX Mode Selection for Remote Control Enables User to Operate a Cassette Deck, Digital Video Disc or Second VCR
(D)	LASER DISC PLAYER	LD Mode Selection for Remote Control
СН	TV CABLE DSS LDP CD RECEIVER/AMPLIFIER DVD	Channet Up/Down, Menu Navigation Channet Up/Down DSS Guides and Menu Navigation Skip FF, REW Preset or Tuning Frequency Skip FWD/Skip REW
VOL VOL	TV CABLE DSS RECEIVER/AMPLIFIER VCR, VCR 2 LDP	Volume Up/Down, Menu Navigation Volume Up/Down DSS Guides and Menu Navigation Volume Up/Down TV Volume Up/Down TV Volume Up/Down

# Remote Control Quick Reference Functional Key Chart (cont'd.)

KEY	MODE	FUNCTION
RTUR	LDP TV CABLE VCR, VCR 2 DSS RECEIVER/AMPLIFIER CD AUDIO TAPE RECORDER	A/B Repeat Switches Between Two (2) Channels Switches Between Two (2) Channels Switches Between Two (2) Channels Switches Between Two (2) Channels Switches between AM and FM Selects Next Disc Selects Audio Tape Recorder A or B
ACTION	TV DSS	Activates TV Menus Acts as Menu Button for DSS
RECOL	TV DSS VCR, VCR 2 LDP	Displays Channel, Sleep Time, Channel Caption, Time, and Audio Mode Displays Current DSS Settings Displays Current VCR Settings Displays Current LDP Settings
REW	DSS VCR, VCR 2 LDP TAPE CD DVD	DSS Guide Rewind Rewind Rewind Selects Previous Track Rewind
	DSS VCR, VCR 2 LDP TAPE CD DVD	Enter/Select Play Play Play (in Normal Direction) Play Play
77 60	DSS VCR, VCR 2 LDP TAPE CD DVD	Exit/Clear Fast Forward Fast Forward Fast Forward Selects Next Track Fast Forward
REC	DSS VCR, VCR 2 TAPE CABLE	One Touch Record in DSS Mode Record Record VCR Record
STOP	DVD VCR, VCR 2 LDP TAPE CD CABLE	Stop Stop Stop Stop VCR Stop
PAUSE	DVD VCR, VCR 2 LDP TAPE CD CABLE	Pause Pause Pause Pause Pause VCR Pause
TV/VCR	VCR, VCR 2 DSS CABLE	Selects TV/VCR Mode Selects TV/DSS Mode Selects TV/VCR Mode
	VCR, VCR 2 DSS	Channel Up/Down Channel Up/Down

# **Special Functions**

#### **MULTI Button**

# The MULTI button can be programmed to issue several commands at the same time.

**Example:** TV Power/On, VCR Power/On, and Cable Box Power/On.

#### Procedure:

- 1. Enter proper infrared codes for all devices before programming. See code section.
- 2. Point your Remote Control transmitter **away** from all equipment remote sensors, then:



- **NOTE:** Waiting more than 30 seconds without pressing another button will exit the programming mode.
- Press a maximum of 6 function buttons on the Remote Control.
   Each button you press is equal to one function. If 6 Remote button functions are entered, all will register in the (wut) button memory when the sequence is entered. When finished, press the (wut) to exit the programming mode.
- **NOTE:** Buttons which continuously perform a function as long as pressed (Volume Up/Down, Channel Up/Down, etc.) cannot be programmed; only those buttons which perform a function when initially pressed (Power On/Off, Mute, Direct Channel Entry, etc.) can be programmed.

The following is a flow chart example of remote functions that can be programmed into the (MUT) button:



Pressing the button will now activate the VCR Power/On, Cable Box Power/On, and the Receiver Power/On at the same time.

#### **RECALL** Button

Press the RECALL button to review:

- 1 Audio Mode status
- (2) CH number or Video Input selected
- 3 Channel Caption (Station Identifier)
- 4 Clock time
- (5) Sleep Timer status



#### **R-TUNE Button**

Pressing the R-TUNE (RAPID TUNE) button toggles to the previously tuned program.



# **Optional Equipment Connection and Operation**

#### **To Audio AMP Connection (Stereo)**

Connect to an external audio amp auxiliary input for monitoring sound through a stereo system.

TERMINALS ON BACK OF MONITOR



Adjustment – When an audio amp is connected to "TO AUDIO AMP" terminals:

- 1. Select TV SPEAKERS "ON " Mode. (Refer to the Audio Menu TV Speakers section.)
- 2. Set volume of audio amp to near minimum.
- 3. Adjust volume of TV to desired listening level.
- 4. Adjust volume of audio amp to match the level of TV.
- 5. Select TV SPEAKERS "OFF&VAO" Mode. (Refer to the Audio Menu TV Speakers section.)
- 6. Audio bass, treble, balance, volume and mute can now be controlled by the TV Remote Control.
- NOTE: When Selecting TV SPEAKERS "OFF&FAO" Mode, the TV sound output is always at a constant level and cannot be changed (Refer to the Audio Menu TV Speakers section).

#### Audio/Video Input Connection



#### Operation

- Connect optional equipment as shown to INPUT 1 or 2 terminals. If S-Video is to be used, connect S-Video (YC) connector to S-Video terminal 1 or 2 and connect audio cables to L & R Audio INPUT 1 or 2 terminals.
- 2. Select the desired Video mode by pressing Input or TV/VIDEO button.
- 3. Operate optional equipment (VCR, DVD or VDP) as instructed in Optional Equipment manual.

#### NOTE:

- You must select the proper VIDEO Input Mode where the equipment is connected.
- Connection of optional S-VIDEO jack automatically disconnects Video Input 1 or 2 jacks.

# Trilingual Animated Icons

The Icons allows the users to configure the TV according to their preference. It will also set up the monitor to operate with external components connected to the terminal jacks.

#### TV Mode Icons



NOTE: Only the selected icon (red) will be animated.



# Menu Language Selection

The MENU LANGUAGE is factory set to ENGLISH. Follow the instructions to change it to SPANISH, FRENCH, and back to ENGLISH (TV, PC, and DTV mode).

- 1. Press
- 2. Press A or ♥ and ♥ or ▶ to highlight the Language ENGLISH/ESPAÑOL/FRANÇAIS Icon.
- 3. Press from to display the Language select menu.

ESPAÑOL FRANÇAIS	LANGUAGE	
English Espanoi Friangai	3	

- Press A or ♥ to select ENGLISH, ESPAÑOL or FRANÇAIS for the Language Menu.
- 5. Press me twice to exit menus.

# **Picture Adjustments**

#### **Picture Norm**

Use to reset Color, Tint, Brightness, Picture, and Sharpness adjustments to the factory preset level for TV Mode only.

- 1. Press (ACTION).
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\bigstar$  to highlight the Picture Icon.
- 3. Press to display the Picture Adjustment menu.



- Press A or ♥ to highlight PICTURE NORM.
- 5. Press ♥ or ♥ to select "SET" to normalize Color, Tint, Brightness, Picture, and Sharpness.
- 6. Press em twice to exit menus.

# Color, Tint, Brightness, Picture, and Sharpness Adjustments

#### Helpful Hints:

COLOR - Adjust for desired color intensity.

TINT - Adjust for natural flesh tones.

**BRIGHTNESS** – Adjust so dark areas of picture slightly become black for a crisp detail.

**PICTURE** – Adjust the white areas of the picture as desired.

SHARPNESS - Adjust for best clarity of outline detail.

- 1. Press
- Press A or ♥ and ♥ or ₱ to highlight the Picture Icon.
- 3. Press (1997) to display the Picture Adjustment menu.

- 16 --

# **TV MODE**

# Picture Adjustments (cont'd.)

Color, Tint, Brightness, etc. (cont'd.)



- Press A or ♥ to select the desired Picture Adjustment (Color, Tint, Brightness, Picture, or Sharpness).
- 5. Press G or b to adjust your selection. (The Selected Picture Adjustment will be displayed.)
- 6. Repeat steps 4 and 5 for the remaining Picture Adjustments.
- 7. Press wice to exit menus.

#### **Color Temp**

To select one of three (3) options for picture temperature.

#### Helpful Hints: NORMAL – No tint WARM – Reddish tint COOL – Bluish tint

- 1. Press .
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\bigstar$  to highlight the Picture Icon.
- 3. Press me to display the Picture Adjustment menu.



- 4. Press  $\triangle$  or  $\overline{\mathbb{V}}$  to highlight COLOR TEMP.
- 5. Press or to select NORMAL, WARM, or COOL.
- 6. Press ( twice to exit menus.

#### **Auto Color**

To automatically optimize color adjustment to compensate for signal variations.

- 1. Press
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\bowtie$  or  $\bowtie$  to highlight the Picture Icon.
- 3. Press me to display the Picture Adjustment Menu.



- 4. Press  $\triangle$  or  $\heartsuit$  to highlight AUTO COLOR.
- 5. Press 🖾 or 🖻 to select ON or OFF.
- 6. Press twice to exit menus.

#### Video NR

This feature increases the horizontal resolution in the picture.

- 1. Press Arman.
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\triangleright$  to highlight the Picture lcon.
- 3. Press to display the Picture Adjustment menu.



- 4. Press  $\triangle$  or  $\heartsuit$  to highlight VIDEO NR (Noise Reduction).
- 5. Press  $\mathfrak{P}$  or  $\mathfrak{P}$  to select ON or OFF.
- 6. Press menus.

# Audio Adjustments

7

MODE



TREBLE - To increase or decrease the Treble response.

BALANCE - To emphasize the Right and Left Speaker's volume.

- Press (ACTION) 1.
- Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\triangleright$  to highlight the Audio lcon.
- Press (mon) to display the Audio Adjustment Menu. 3.



- Press a or v to highlight BASS, TREBLE or BALANCE.
- 5. Press  $\mathfrak{S}$  or  $\mathfrak{P}$  to adjust for desired audio response.
- Repeat steps 4 and 5 for remaining audio functions.
- 7. Press the Know twice to exit menus.

#### Mode – Stereo/SAP/Mono

When Audio is broadcast in Stereo or SAP an ON Screen display will appear on initial "Turn On" and "Channel Change". The available choices will be indicated in red.

#### Helpful Hints:

STEREO - Two channel audio reception.

SAP - Second Audio Programming (such as bilingual audio, weather reports, etc.).

MONO - Use when stereo signal is weak.

- Press (
- Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\bowtie$  to highlight the Audio
- 3. Press the result to display the Audio Adjustment Menu.

្រា	•	UDIO			
л	, TI				
MO		TEREO	SAP	MONO	
MO SPI	EAKER	and the	SAP	MONO ON	
MO SPI SU	DE S EAKER BROUNI	and the	SAP	MONO ON OFF	

- 4. Press A or ♥ to highlight MODE.
- Press I or b to select STEREO, SAP (Second Audio Programming) or MONO. The selected mode 5. will be highlighted.
- Press me twice to exit menus. 6.

# Audio Adjustments (cont'd.)

#### Speaker

This feature is used to turn the internal speakers "ON" or "OFF". It is used when the TV is connected to an external audio amplifier. (Refer to "To Audio Amp" connection section for further information.)

- 1. Press 📟 .
- 2. Press  $\triangle$  or  $\nabla$  and  $\triangleleft$  or  $\triangle$  to select the Audio lcon.
- 3. Press control to display the Audio Adjustment Menu.



- 4. Press  $\triangle$  or  $\overline{\heartsuit}$  to highlight SPEAKER.
- Press ♥ or ₱ to select ON, OFF&VAO or OFF&FAO.
- ON TV speakers operate normally.
- OFF&VAO (Variable Audio Output) TV speakers off, the sound output varies according to the TV volume, use the TV remote to control the volume, muting, bass, treble and balance of the external stereo system.
- OFF&FAO (Fixed Audio Output) TV speakers off, sound output is fixed.
- 6. Press (across) twice to exit menus.

#### Surround

Use the Surround Feature to enhance audio response when listening to Stereo broadcasts.

- 1. Press 📟 .
- 2. Press  $\triangle$  or  $\nabla$  and  $\heartsuit$  or  $\triangleright$  to highlight the Audio Icon.
- 3. Press (1) to display the Audio Adjustment Menu.



- 4. Press  $\triangle$  or  $\heartsuit$  to highlight SURROUND.
- 5. Press 🔍 or 🖻 to select SURROUND ON or OFF.
- 6. Press evice to exit menus.

#### Al Sound

This feature is used to maintain constant sound level when switching between programs with different sound levels. For example, when the broadcast program switches to a commercial, the commercial sound level will be maintained close to the level of the broadcast program.

- 1. Press and .
- 2. Press  $\triangle$  or  $\overline{\nabla}$  and  $\overline{\overline{\nabla}}$  or  $\overline{P}$  to highlight the Audio Icon.
- 3. Press me to display the the Audio Adjustment Menu.

MODE STEREO SAP MONO
SPEAKER ON SURROUND OFF AI SOUND ON PRESS CHIV FOR MORE

- 4. Press  $\triangle$  or  $\overline{\heartsuit}$  to highlight AI SOUND.
- 5. Press or boto select AI SOUND ON or OFF.
- 6. Press me twice to exit menus.

# TV/PC/DTV

MODE



4. Press ≪ or ≫ to highlight TV, PC (Front or Rear), or DTV.

**NOTE:** Press Input button while in PC mode to select PC. Front or Rear.

5. Press menus.

# Set Up Features

#### **Clock Auto (TV Mode)**

This feature automatically adjusts the TV clock to the correct time whenever the TV is tuned to a PBS (Public Broadcasting Service) station for 10 minutes or until the correct time and day are displayed (Refer to your local TV guide for PBS channel number).

- NOTE: A plus or minus one-hour offset can be programmed to adjust the clock when there is a time zone difference between the PBS-TV-stationand the viewer.
- 1. Press and .
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\bowtie$  or  $\triangleright$  to highlight the Set Up lcon.
- 3. Press come to display the Set Up menu.
- NOTE: This menu is not available when AUTO POWER ON is set.



- 4. Press 🗟 or 🦁 to highlight CLOCK.
- 5. Press 🔍 or 🔎 to select AUTO ( if necessary).
- 6. Press 🕅 to highlight AUTO TIME SET.



- 7. Press e or to display the AUTO TIME SET Menu.
- 8. Press 🙈 to highlight PBS CHANNEL.

#### Clock Auto (cont'd)

9.





- 11. Press 🗐 for minus one-hour offset or 🖗 for plus one-hour offset (if necessary).
- 12. Press 🕅 to highlight ACTIVATE.



- 13. Press or boot to display the AUTO TIME SET
- 13. Press G or b to display the AUTO TIME SET ACTIVATE menu.



MODE

a.

#### **Clock Manual**

Clock (when set) will display On Screen at initial turn on, after a channel change and when pressing  $\overset{\text{RECALD}}{\xrightarrow{}}$ . It must be set in order to operate the dual Timer feature.

- 1. Press
- 2. Press A or  $\heartsuit$  and A or P to highlight the Set Up lcon.
- 3. Press erem to display the Set Up menu.
- <u>NOTE: This\_menu\_is\_not\_available\_when</u>-AUTO-POWER ON is set.



- 4. Press 🗟 or  $\overline{\heartsuit}$  to highlight CLOCK .
- 5. Press 🔍 or 🖗 to select MANUAL.
- 6. Press 🙈 or ♥ to highlight SET TIME.



- Press G or b to Set Hours (set AM/PM accordingly).
- 8. Press  $\overline{\heartsuit}$  to highlight minutes position.
- 9. Press 🕙 or 🖻 to set minutes.
- 10. Press twice to exit menus.

#### Set Day

The day of the week must be set in order to operate the Dual Timer feature.

- 1. Press 🛲
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\bowtie$  or  $\bigstar$  to highlight the Set Up lcon.
- 3. Press to display the Set Up menu.



- 4. Press  $\triangle$  or  $\overline{\nabla}$  to highlight SET DAY.
- 5. Press  $\P$  or  $\bowtie$  to select proper day of the week.
- 6. Press twice to exit Menus.

#### Auto Power On

Automatically turns the television on when a VCR, Cable Box, etc., are powered. The monitor needs to be plugged into the switched outlet of the device. Setting the Auto Power On feature will cancel the time and timer control settings. The Main Menu Icon for the TIMER CONTROL will be replaced with an EXIT Icon.

- 1. Press 📟 .
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\bowtie$  or  $\bigstar$  to highlight the Set Up lcon.
- 3. Press (The Set Up menu.
- 4. Press  $\triangle$  or  $\overline{\nabla}$  to highlight AUTO POWER ON.
- 5. Press or bo select SET.
- 6. Press (ACTION) twice to exit menus.

#### **Geomagnetic Corr (Correction)**

This monitor incorporates a special adjustment feature for the convenience of the customer. This adjustment is preset at the factory. However, adjustment may be required when the monitor is moved (due to the influence of earth's magnetic field) which may cause the picture to tilt slightly. If necessary, follow these procedures to adjust the tilt.

- 1. Press Con.
- 2. Press A or ♥ and ♥ or ₱ to highlight the Set Up lcon.
- 3. Press ( to display the Set Up menu.



- 4. Press  $\triangle$  or  $\heartsuit$  to highlight GEOMAGNETIC CORR.
- 5. Press I or P to display the Geomagnetic Correction adjustment menu.
- 6. Press or to adjust the picture tilt until left and right side of tilt adjustment bar is parallel to the bottom of picture frame (if necessary).
- NOTE: Discoloration may be visible in picture corners if tilt bar is not parallel to the bottom of picture



7. Press menus.

#### Mode

# IMPORTANT NOTE: The proper input mode must be selected for the type of signal at the antenna input.

- TV is used when the television is not connected to a Cable TV System, for example, when using a VHF/UHF antenna (Channels 02–69).
- CABLE is used when the television is connected to a Cable TV System and when not using a Cable Box (Channels 01–125).
- NOTE: Some Cable TV Systems encode (scramble) program material on specific channels. A cable company supplied decoder is required to reproduce an acceptable picture. Certain Cable TV Systems offset some channels to reduce interference. It will be necessary to use the cable company supplied converter to receive these specific channels.
- 1. Press Arm .
- 2. Press  $\textcircled{and} \nabla$  and  $\textcircled{and} \nabla$  to highlight the Set Up lcon.
- 3. Press erew to display the Set Up menu.



- 4. Press  $\triangle$  or  $\heartsuit$  to highlight MODE.
- 5. Press M or P to select TV or CABLE.
- 6. Press know twice to exit menus.

#### Auto Program

The Auto Programming feature allows you to place channels with a video signal into Channel Scan Memory. When you press A or , only those channels with a video signal will accessed. TV or Cable Tuning mode must be set properly for your system.

#### Helpful Hints:

#### After Auto Programming:

Blue channel number indicates channel is in Channel Scan-Memory-

All channels are available by direct access using the Keypad numbers "0 through 9".

After Auto Programming Scan has completed, up to 15 channels will be programmed into the FAVORITE Channel Scan if space is available. Any original channels that were programmed into FAV CHANNEL will remain. (Refer to Favorite Channel Scan for deleting unwanted channels.)

- Press 1.
- Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\triangleright$  to highlight the Set Up 2 lcon
- Press represented to display the Set Up menu. З.



- Press 🗟 or 🖤 to highlight AUTO PROGRAM.
- Press or to start Auto Programming Scan. Channels will automatically advance until all channels have been scanned.
- Channel numbers with video signal present will turn blue which indicates stored in Channel Scan Memory.
- 6. Press menus.
- NOTE: Some channels with very weak signals may be locked into memory. These must be deleted manually using the Manual Program feature.

#### Manual Program

This feature allows you to select which channels are placed into Channel Scan Memory so when you press A or only those channels you desire will be accessed.

- Press the Com. 1.
- Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\heartsuit$  to highlight the Set Up 2. lcon.



- Press 🔍 or 🖻 to display Manual Programming 5. Menu.

ſ	MANUALPROGRAM	
	ENTER CHANNEL 3 TO ADD TO DELETE	

- 6. Use the Remote Control Keypad numbers "0 through 9" or A or V to select channels.
- 7. Press P to add channel(s) to memory (blue). Press the 🕙 to delete channel(s) from memory (yellow).
- Repeat Steps 6 and 7 to continue adding or deleting 8 channels.
- 9. Press (Arrow) twice to exit menus.

## Set Up Features (cont'd.) CC On Mute

Activates the On Screen Closed Caption feature when the

on the Remote Control is pressed. To deactivate press (MUTE) again.

- NOTE: This feature only functions when the Close Caption Mode is in the "OFF" position. The program being viewed must be broadcast with Closed Caption. (Refer to your local TV guide.)
- Press
- Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\triangleright$  to highlight the Set Up 2. Icon.
- Press ( to display the Set Up menu. 3.



Press  $\triangle$  or  $\overline{\mathbb{V}}$  to highlight CC ON MUTE.

Press 🗐 or 🔎 to select NO, C1, C2, C3 or C4. Recommended Set Up for Closed Caption when using MUTE

- CC ON MUTE: C1
- CC MODE: OFF
- Press (Arran) twice to exit menus. 6.

7. Press when the program being viewed is broadcast with Closed Caption to activate.

NOTE: Press (MUTE) again to deactivate.

# CC Mode

This television contains a built in decoder that is capable of providing a visual depiction of the audio portion. The program viewed must include Closed Captioning (CC) for the television to display it. CC is displayed in the form of text across the screen (white or colored letters on a black background). It allows the viewer to read the dialogue of a television program or other information.

- 1. Press
- Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\triangleright$  to highlight the Set Up 2 Icon.
- 3. Press ( to display the Set Up menu.



- 4. Press  $\triangle$  or  $\overline{\heartsuit}$  to highlight CC MODE.
- Press 🗐 or 🔊 to select OFF, C1,C2, T1, T2, C3, C4, 5. T3 or T4.
- · CAPTION OFF Use when Closed Caption is not desired.
- CAPTION C1 For video related information that can be displayed (up to 4 lines of script on the screen, where it does not obstruct relevant parts of the picture). Script can be in any language.
- CAPTION C2 Another mode used for video related information.
- CAPTION C3 and C4 Other modes used for video related information:
- TEXT T1 Blanks out a large portion of the picture on the television screen, and displays program guide or any other information currently being transmitted.
- TEXT T2, T3 & T4 Other modes that display information and blank out a large portion of the picture on the television screen.
- 6. Press (ATTON) twice to exit menus.

# **Timer Features**

#### Sleep Timer

This feature is used for automatic turn OFF in 30, 60 or 90 minutes as desired.

NOTE: Display will flash 3, 2 and 1 to indicate the last three remaining minutes prior to turn OFF. To

deactivate, press e or until "NO" is displayed.

- Press Remain
- Press  $\triangle$  or  $\overline{\nabla}$  and  $\overline{\nabla}$  or  $\overline{D}$  to highlight the Timer 2. lcon.
- 3. Press when to display the Timer Control menu.



- 4. Press or to select 30, 60 or 90 (minutes) for Sleep Timer to be activated.
- 5. Press (Menow) twice to exit menus.
- NOTE: To deactivate Sleep Timer, repeat steps 1 through 4. In step 4, select "NO" instead of minutes. Timer Control is not available when Auto Power On is set.

#### **Special Feature:**

#### Automatic turn "OFF" after 90 minutes.

The TV has a special feature that will shut itself OFF after 90 minutes when turned ON by the program timer unless a function key is pressed during the 90 minutes.

This feature is used to insure that the TV will not remain ON unattended for an extended period of time.

Programming the OFF timer will also cancel the automatic OFF feature.

. \* **1** 

#### Program Timer

The (Dual Program) Timer feature is capable of turning the TV ON to a desired channel and then turning the television OFF at a predetermined time.

NOTE: The clock and day must be set for this feature to operate. (Refer to Set Up Menu to Set Time and Day.)

#### Helpful Hints:

- The Program Timer overrides the Sleep Timer.
- · Program Timer can only access channels in Program Channel Memory.
- "Set Time First" will appear on screen when trying to set Timer Day Option without the clock being set.
- If the Program Timer "ON" functions while the set is operating the set will automatically tune to the channel designated in the Program Timer.
- Press 1.
- Press  $\triangle$  or  $\overline{\heartsuit}$  and  $\overline{\heartsuit}$  or  $\overline{\diamondsuit}$  to highlight the Timer 2. lcon.
- Press em to display the Timer Control menu. 3.



- Press A or V to highlight the TIMER 1 or TIMER 2 4 settina.
- Day or days to activate the Timer
- ON (time) hours and minutes
- OFF (time) hours and minutes
- CH the channel the TV is tuned to when the ON Timer activates.
- SET NO (Timer feature will not activate) - YES (Timer feature will activate)

#### Timer Features (cont'd.) Program Timer (cont'd.)

- Fightight the Timer 1 Day/Days of
- 5. Highlight the Timer 1 Day/Days option.
- 6. Press ≪ or ≫ to set the day or days for the TV to turn ON.
- The options for setting day are: (MON~FRI), (SAT~SUN), (DAILY), (SUN), (MON), (TUE), (WED), (THR), (FRI), (SAT), (EVR SUN), (EVR MON), (EVR TUE), (EVR WED), (EVR THR), (EVR FRI), (EVR SAT).
- 7. Press  $\overline{\heartsuit}$  to highlight the ON (Hours/Minutes).
- 8. Press  $\mathfrak{P}$  or  $\mathfrak{P}$  to set the time for the TV to turn ON.
- 9. Press 🕅 to highlight the OFF (Hours/Minutes).
- 10. Press P or P to set the time for the TV to turn OFF.
- 11. Press W to highlight CH.
- 12. Press <sup>≪</sup> or <sup>≫</sup> to select a channel (from Program Channel Memory) for the TV to be tuned to when it turns ON.
- 13. Press 🕅 to highlight SET.



- 14. Press → to activate or 
   to deactivate Timer 1.
   YES=Feature is activated
  - •NO=Feature is not activated
- 15. Press ♥ to set Timer 2 (if desired). Follow Steps 6 through 14.
- 16. Press me twice to exit menus.
- 17. Pressing again will return you to the Timer icon.

# **Input Select**

- 1. Press 📖
- 2. Press  $\triangle$  or  $\overline{\nabla}$  and  $\overline{\overline{\nabla}}$  or  $\overline{\overline{D}}$  to highlight the Input Select Icon.
- 3. Press menu to display the Input Select menu.

	•	
TV		i

- 4. Press or b to select TV, Video 1 or Video 2.
- 5. Press Kinew twice to exit menus.

# Favorite Channel

#### **Channel Scan**

This feature is used to select which Channels will be accessed when using O or V, ALL or FAV (Favorite) Channels.

NOTE: Channels must be programmed into Favorite Channel Select Memory first.

- 1. Press 📼 .
- 2. Press A or ♥ and ♥ or ₱ to highlight the Favorite Channel Icon.
- 3. Press (1997) to display the Favorite Channel menu.



- 4. Press A or ♥ to highlight CHAN SCAN.
- 5. Press Sor by to select ALL or FAV (Favorite).
- ALL The A or ♥ will access all channels in Channel Memory.
- FAV The A or <sup>™</sup> will only access channels in Favorite Channel Select Memory.
- 6. Press twice to exit menus.

### Favorite Channel (cont'd.) Favorite Channel Select

The Favorite Channel Programming allows you to program up to 15 of your favorite channels. You can use the CH buttons on the Remote Control to scan channels without going through channels you do not normally view.

1. Press 📖 .

MODE

- 2. Press A or and or to highlight the Favorite Channel Icon.
- 3. Press const to display the Favorite Channel menu.



- Press A or ♥ to highlight CHAN SCAN. Then, press ♥ or ♥ to select FAV option for Favorite Channels setting.
- 5. Press 🗟 or Ϋ to highlight "FAV CH SELECT".
- 6. Press  $rak{eq}$  or  $rak{P}$  to display the Favorite Channel Select.



- 8. Press boot to add or press to delete channel from Favorite Channel Memory.
- 9. Repeat Steps 7 and 8 to add or delete channels (up to 15 channels may be stored in Favorite Channel Memory).
- 10. When you are done with adding and deleting channel, press twice to return to normal viewing.
- 11. Press a or v to scan through the Favorite Channels you programmed.

#### Channel Caption Preset Caption

This feature allows you to select from 56 preset captions, and assign corresponding channel numbers utilized in your area. Captions are easily assigned to the channel numbers you select by following the steps outlined below.

- 1. Press 🏧 .
- 2. Press A or and or b to highlight the Channel
- 3. Press em to display the Channel Caption menu.



- 4. Press A or ♥ to highlight PRESET CAPTION.
- 5. Press  $rac{1}{2}$  or  $rac{1}{2}$  to display the Preset Caption menu.

PRES	ET CAP	TION			
			MBER	00	
CES FOX		e e	NN ↔ SPN ↔		
PRE PRE	SEC	a i Meori	BO W MORE	00	•

- 6. Use the Remote Control keypad, to assign the channel number to the Channel Caption in your area (Refer to your local TV guide).
- NOTE: To delete press swhile channel number is highlighted.



- Press V to select a different Preset Caption, then repeat step 6 until all desired Preset Captions have assigned channel numbers.
- 8. Press from three times to exit menus.

# Channel Caption (cont'd.)

#### **Manual Caption**

The Channel Caption (Station Identifier) allows you to input the call names of up to 30 stations into memory (using up to 4 characters). The call name will then display, along with the channel number when changing channels or pressing recut.



- 1. Press
- 2. Press and and or by to highlight the Channel Caption Icon.
- 3. Press (1997) to display the Channel Caption menu.



- 4. Press ♥ to highlight MANUAL CAPTION.
- 5. Press  $\mathfrak{P}$  or  $\mathfrak{P}$  to display the Manual Caption menu.



- Use the Remote Control Keypad or <sup>Q</sup> or <sup>D</sup> to enter channel number your wish to assign a channel caption (STATION IDENTIFIER).
- 7. Press 🕅 to highlight ENTER CAPTION.



8. Press I or b to select first character in channel caption (STATION IDENTIFIER).

TV MODE

- NOTE: To delete characters, press and or built an empty space is displayed and the character position.
- 9. Press ♥ to move to second character position, and repeat steps 8 and 9 until the complete caption is entered (up to 4 characters).
- 10. Press A or repeatedly to highlight ENTER CHANNEL NUMBER. Then repeat steps 6 through 10 to continue adding Channel Captions (STATION IDENTIFIERS).
- 11. Press three times to exit menus.

# Lockout Features

#### Lockout Mode

This feature allows locking out the following from viewing:

- Game Lockout Channel 3 & 4, VGA & Video Inputs.
- Channel Lockout up to 4 Channels.
- All Lockout All Channels plus Video Inputs.
- NOTE: This feature will Lockout your selection for up to 48 hours. Be sure to understand this feature before using. Use a code that you will easily remember.

- 2. Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\triangleright$  to highlight the Lock lcon.
- 3. Press em to display the Lock menu.
- NOTE: When the Lockout Menu is displayed, the Game Lock option will be highlighted.
- 4. Press ≪ or ≫ to select GAME, CH (CHANNEL) or ALL.



Game Lockout Menu



**Channels Lockout Menu** 



All Lockout Menu

NOTE: When the LOCK MODE CHANNEL is selected, perform procedure Steps A through D.



#### Step A

Press W to highlight "LOCK THESE CHANNELS". **Step B** 

Then use the Remote Control Keypad or  $rak{M}$  or  $rak{P}$  to select a channel you desire to lockout.

Step C

Press  $\overline{\mathfrak{V}}$  to select next channel position.

#### Step D

Then repeat Step B & C until desired Channels are locked out (up to 4 channels).

- 5. Press <sup>♥</sup> to highlight "HOW LONG?".
- 6. Press 🗐 or 🖗 to select 12, 24 or 48 (hours lockout time).
- 7. Press ♥ to highlight "ENTER CODE" then enter a 3 digit code by using the Remote Control Keypad. IMPORTANT NOTE: Use a code you can easily remember.
- 8. Press <sup>▶</sup> to activated "CHANNELS LOCKED" will display On Screen.



Lock Feature Activated

# Lockout Features (cont'd.) Unlock

Follow Steps 1 through 3 from previous section and enter same 3 digit code as in Step 7. Channel Unlocked display will appear.





IF 3 DIGIT CODE IS THE SAME



IF 3 DIGIT CODE IS NOT THE SAME

#### CONTROL PANEL LOCK FEATURE Procedure

With the Monitor turned ON, press the O and VOLUME RIGHT (►) buttons on the control panel

ACTION

TV MODE

simultaneously, then quickly press the  $\bigcirc$  and CHANNEL UP ( $\blacktriangle$ ) buttons on the control panel simultaneously. This will activate the Control Panel Lock feature, to deactivate repeat procedure.

#### Helpful Hints:

- There will be no On Screen display.
- To confirm if the Control Panel Lock feature is activated, press any button other than the POWER button (the Power button is never disabled).
- Buttons should be pressed quickly and released. Do not hold down.

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# **Programming the Home Theater Remote**

The remote control can be set to control other manufacturers components, by utilizing the MODE SELECTION BUTTONS for CABLE, DSS, VCR, RCVR (a Receiver or Amplifier), CD, LD, and AUX (for Cassette Players, Second VCR or a DVD.)

#### Code Known

Use the following procedure for setting up the remote control using the numerical buttons when the component's remote code is known.

1 Determine the brand of the component.

- 2 Identify the code(s) associated with the brand from the infrared code index (see following pages). Record all possible codes.
- 3 Confirm that the component is plugged in and operating properly, then turn it OFF.
- 4 Press and hold the button, then the button so that both are pressed at the same time for at least **5 seconds**. Then let go of the buttons.
- 5 Press the appropriate Mode button for the component.
- 6 Enter the 3-digit code, by using the Remote Control Keypad "0" through "9" buttons.

Now the remote is set for the entered code.

- 7 Press the e button to test the remote. If the correct code is setup for the component (in step 6), the component will turn on.
- **Note:** Some brands have multiple codes. Repeat the procedure using another listed code until the component responds correctly.



TNQ2AE012

#### Code Unknown

Use the following procedure for setting up the remote control when the component's remote access code is not known. This procedure uses the "sequence method".

- Confirm that the component is plugged in and operating properly, then turn it OFF.
- Press and hold the web button, then the web button so that both are pressed at the same time for at least 5 seconds. Then let go of the buttons.
- Press the appropriate Mode button for the device.
- Press the button to step over to the next code.
- Press the button to test the remote. If the correct code is sent, the component will turn on.
- Once the correct code is found, press the combutton to store the code.
- Repeat from step B above until the proper component code is found. It may take several attempts before the correct code is found.
- *Note:* If an incorrect code is entered, or when the operation is not completed within 30 seconds, the settings will not change.

Infrared Remote Codes for Specific Components						
Helpful Hint: Write down the code numbers for your components in the space provided below. This will serve as a handy reference whenever you need to reprogram your remote control.						
CABLE Cable TV Converter Box	VCR Video Cassette Recorder	CD Compact Disc Player				
DSS Digital Satellite System	RCVR Receiver or Amplifier	LD Laser Disc Player				
Other Component	Other Component	Other Component				
Other Component	Other Component	Other Component				

# **VCR Infrared Codes Index**

The Universal Infrared Remote Control is capable of operating many brands of VCRs. Refer to the Programming the Remote Control section for procedures.

- NOTE: The Universal Remote Control memory is limited; therefore, some models of VCRs may not operate. The Universal Remote Control is not designed to control all features that are available in all models.
- NOTE: After entering the proper infrared code, press the Remote VCR (\*) Selection Mode button. A second VCR can be activated using the same codes, from AUX (\*\*) Selection Mode button. Refer to the Remote Control Key Functions section for Remote VCR and VCR 2 function key listing.





Code Index for VCRs				
VCR Brand	Code(s)	VCR Brand	Code(s)	
Adventura	000	MTC	000, 240	
Aiko	278	Multitech	000,072	
Aiwa Akai	000 <sup>,</sup> 041, 061	NEC Nikko	038, 041, 067 037	
American High	035	Noblex	240	
Asha	240	Olympus	035	
Audiovox	037	Optimus	037, 048, 104	
Beaumark	240	Panasonic	035, 162, 225, 454	
Bell & Howell	104	Penney	035, 037, 038, 042	
Broksonic	121,184		240	
Calix	037	Pentax	042	
Canon	035	Philco	035	
Carver	081	Philips	035, 081	
CCE	072, 278	Pilot	037	
Citizen Colt	037, 278 072	Pioneer Protec	067 072	
Craig	037, 047, 072, 240	Pulsar	039	
Curtis Mathes	035, 041, 060	Quarter	035	
Cybernex	240	Quartz	046	
Daewoo	045, 278	Quasar	035	
Dynatech	000	Radio Shack	000, 037	
Electrohome	037	Radix	037	
Electrophonic	037	Randex	037	
Emerex	032	RCA	042,060	
Emerson	000, 002, 037, 043,	Realistic	000, 035, 037, 046	
	061, 121, 184, 278		047, 048, 104, 240	
Fisher	047, 104	Ricoh	034	
Fuji	033, 035	Runco	039	
Funai	000	Samsung	045, 240	
Garrard GE	000	Sanky	039, 048	
Goldstar	035, 060 037, 038	Sansui Sanyo	041, 067 046, 047, 104, 240	
Gradiente	000	Scott	043, 045, 121, 184	
Harley-Davidson	000	Sears	035, 037, 042, 046,	
Harman-Kardon	038	oouis	047,104	
Harwood	072	Sharp	048	
Headquarter	046	Shintom	072	
HI-Q	047	Shogun	240	
Hitachi	041, 042	Singer	072	
Jensen	041	Sony	032, 033, 034, 035	
JVC	041,067	STS	042	
Kenwood	038, 041, 067	Sylvania	000, 035, 043, 081	
KLH	072	Symphonic	000	
Kodak	035, 037	Tatung	041	
Lloyd Logik	000 072	Teac Technics	000,041	
LXI	072	Teknika	035,162 000, 035, 037	
Magnavox	035, 039, 081	TMK	240	
Magnin	240	Toshiba	043, 045	
Marantz	035, 081	Totevision	037, 240	
Marta	037	Unitech	240	
Matsushita	035	Vector	045	
MEI	035	Vector Research	038	
Memorex	000, 035, 037, 039,	Video Concepts	045, 061	
	046, 047, 048, 104	Videosonic	240	
	240	Wards	000, 035, 042, 047,	
MGA	043, 061		048, 072, 240	
MGN Technology	240	XR-1000	000, 035, 072	
Minolta Miteubichi	042	Yamaha	038	
Mitsubishi Motorola	043, 061, 067	Zenith	033, 034, 039	
	035, 048			
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# Cable Converter Box and CD Players Infrared Codes Index

The Universal Infrared Remote Control is capable of operating many brands of Cable Converter Boxes and CD Players. Refer to the Programming the Remote Control section for procedures.

- **NOTE:** The Universal Remote Control memory is limited; therefore, some models of Cable Converter Boxes and CD Players may not operate. The Universal Remote Control is not designed to control all features that are available in all models.
- **NOTE:** After entering the proper infrared code, press the Remote **CBL** Selection Mode button ( $\star$ ). Refer to the Remote Control Key Functions section for Remote CBL function key listing.

	Cable
*	CBL

Codes for Cable Converter Box					
Brand of CableTV Box	Code(s)	Brand of Cable–TV Box	Code(s)		
ABC Archer Century Citizen Contec Dae Ryung Garrard Gemini General Instrument Goldstar Hamlin Hitachi Hytex Jasco	003, 007, 008, 011, 013, 014, 017 153 153 153 019 008 153 015 011, 476 144 009, 020, 259 011 007 153	Pioneer Pulsar RCA Regal Rembrandt Runco Samsung Scientific Atlanta Signal Signature Sprucer Starcom Stargate Starquest Tocom	144, 533 000 021 020, 259 011 000 144 008, 017, 477 015 011 003, 015 015 015 012, 013		
Jerrold	003, 011, 012, 014, 015, 476		000 015		
Memorex Oak Panasonic Paragon Philips	000 007, 019 000, 021, 107 000 153	United Artists United Cable Universal Zenith	153 007 003 153 000, 525		

NOTE: After entering the proper infrared code, press the Remote CD Selection Mode button (☆☆). Refer to the Remote Control Key Functions section, for Remote CD Players function key listing.

.

Brand of CD Players	Code(s)	Brand of CD Players	Code(s)
Aiwa	124, 157	Onkyo	101
CA Audio Lab	029	Optimus	000, 032, 03
Carver	157		305, 426, 46
Denon	003	Panasonic	029, 367
DKK	000	Philips	157
Emerson	305	Pioneer	032, 468
Fisher	048	Proton	157
Genexxa	032, 305	QED	157
Harman-Kardon	426	Quasar	029
Hitachi	032	RCA	305
JVC	072	Rotel	157
Kenwood	028, 037, 048, 190	SAE	157
Krell	157	Sansui	157, 305
LXI	305	Scott	305
Magnavox	157	Sears	305
Marantz	029, 157	Sharp	037
MCS	029	Sherwood	426
Mission	157	Sony	000
Nakamichi	147	Technics	029, 303
NSM	157	Victor	072



# Cassette Players, Receivers, and Amplifiers Infrared Codes Index

The Universal Infrared Remote Control is capable of operating many brands of Cassette Players, Receivers, or Amplifiers. Refer to the Programming the Remote Control section for procedures.

- **NOTE:** The Universal Remote Control memory is limited; therefore, some models of Cassette Players, Receivers, and Amplifiers may not operate. The Universal Remote Control is not designed to control all features that are available in all models.
- **NOTE:** After entering the proper infrared code, press the Remote **AUX** Selection Mode button (\*). Refer to the Remote Control Key Functions section for Remote Cassette Players function key listing.

Casse	tte
Playe	rs
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Receivers Amplifiers

Code Index for Cassette Players				
Brand of Cassette Players	Code(s)	Brand of Cassette Players	Code(s)	
Aiwa Carver Denon Kenwood Magnavox Marantz Nakamichi Optimus	029 029 076 070 029 029 147 027, 220, 337, 338	Panasonic Philips Pioneer Sansui Sherwood Sony Technics Wards Yamaha	272 029 027, 220 029 337, 338 170, 243 229 027 094, 097	

**NOTE:** After entering the proper infrared code, press the Remote **RCVR** Selection Mode button (\*\*). Refer to the Remote Control Key Functions section for Remote Receivers/Amplifiers function key listing.

Code I	ndex for Rece	eivers and Amp	olifiers
Brand of Receiver / Amplifier	Code(s)	Brand of Receiver / Amplifier	Code(s)
ADC Aiwa Carver Casio Clarinette Denon Fisher JVC Kenwood Lloyd's Magnavox Marantz MCS Modulaire NAD Nakamichi Onkyo Optimus	531 121, 158, 189 008, 042, 189, 269 195 195 004 042, 219 074 027, 186 195 189, 195, 269, 531 039, 189, 269, 321 039 195 320 321, 347 135 013, 080, 186, 219, 300, 531	Panasonic Penney Philips Pioneer Quasar RCA Realistic Sansui Sanyo Sharp Sherwood Sony Technics Victor Wards Yamaha Yorx	039 195 189, 269 013, 014, 080, 300, 531 039 531 195 189, 321 219 186 502 158 039, 208, 308, 309, 518 074 013, 014, 042, 080, 158, 189 176, 186, 354 195
## Laser Disc, DSS (Digital Satellite System), and DVD (Digital Videodisc) Infrared Codes Index

The Universal Infrared Remote Control is capable of operating selected brands of Laser Disc, DSS Digital Satellite System, and DVD (Digital Videodisc). Refer to the Programming the Remote Control section for procedures.

- **NOTE:** The Universal Remote Control memory is limited; therefore, some models of Laser Disc, DSS Digital Satellite System, and DVD (Digital Videodisc) may not operate. The Universal Remote Control is not designed to control all features that are available in all models.
- **NOTE:** After entering the proper infrared code, press the Remote LD Selection Mode button ( $\diamond$ ). Refer to the Remote Control Key Functions section for Remote Laser Disc function key listing.

	Codes for L	aser Disc	
Laser Disc Player	Brand of Laser Disc	Code(s)	
	Mitsubishi NAD		
	Panasonic Pioneer	204 059	
	Quasar Sony	204 201	

**NOTE:** After entering the proper infrared code, press the Remote **DSS** Selection Mode button ( $\diamond \diamond$ ). Refer to the Remote Control Key Functions section for Remote DSS function key listing.

DSS	Codes for DSS (Digital Satellite System)		
	Brand of Satellite	Code(s)	
	Panasonic RCA Sony	701 566 639	

NOTE: After entering the proper infrared code, press the Remote AUX Selection Mode button (★). Refer to the Remote Control Key Functions section for Remote DVD function key listing.

Digital Videodisc	Codes for DVD (D	igital Videodisc)
*	Brand of DVD	Code(s)
AUX	Panasonic	490



### PC Input Connection (Rear)

#### Operation

1. Select PC (Rear) mode from the TV/PC/DTV menu (located in the TV/PC/DTV lcon).

- NOTE: To select PC (front) press the INPUT button, while PC (rear) is highlighted in the TV/PC/DTV menu.
- 2. Connect the 15-pin connector cable (the supplied cable meets FCC standards) from the computer 15-pin output terminal to the monitor PC INPUT 15-pin terminal, as shown.
- 3. Connect an audio/video to Mini-jack cable from the computer Audio output sound source jack to the monitor PC INPUT AUDIO L & R jacks, as shown.

NOTE: To operate your Monitor and computer properly, refer to the instructions furnished with the computer.



TERMINALS ON BACK OF MONITOR

### Helpful Hint

An input signal must be connected to the input terminals of the monitor, in order to access PC and DTV mode loon menus.

## PC Mode (cont d.)

### PC Input Connections (Front)

#### Operation

1. Select PC (Front) from the TV/PC/DTV menu (located in the TV/PC/DTV lcon).

- NOTE: To select PC (Rear) press the INPUT button, while PC (Front) is highlighted in the TV/PC/DTV menu.
- 2. Connect a 15-pin Connector cable (the supplied cable meets FCC standards) from the computer 15-pin output terminal to the monitor PC INPUT 15-pin terminal, as shown.
- 3. Connect an Mini-jack cable from the computer Audio output sound source jack to the monitor AUDIO INPUT jack, as shown.

NOTE: To operate your Monitor and computer properly, refer to the instructions furnished with the computer.



#### TERMINALS ON FRONT OF MONITOR (LOCATED BEHIND FRONT CONTROL DOOR)

### Helpful Hints:

If the monitor image is scrambled after connecting to a computer, refer to the troubleshooting section for changing the computer resolution.





This feature is used to select the PC mode for monitor display.

**NOTE:** Connect a computer having a 15-pin output terminal. If necessary, you can adjust the picture size and position using the Display Adjust menu.

- 1. Press 📟 .
- 2. Press A or ♥ and ♥ or ▶ to highlight the TV/PC/DTV Icon.
- 3. Press (1) to display the TV/PC/DTV MODE menu.



- 4. Press 🗟 or 🖻 to highlight PC (FRONT).
- 5. Press twice to exit menus.

## **Trilingual Animated Icons**





NOTE: Only the selected icon (red) will be animated.

## Picture Adjustments

### **Picture Norm**

Use to reset Color, Tint, Brightness, Picture, and Sharpness to the factory preset level for PC Mode only.

- 1. Press
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\bowtie$  to highlight the Picture Icon.
- 3. Press from to display the VIDEO Adjustment menu.





- 4. Press  $\triangle$  or  $\heartsuit$  to highlight PICTURE NORM.
- Press ♥ or ♥ to select "SET" to normalize Color, Tint, Brightness, Picture, and Sharpness for the PC mode.
- 6. Press the twice to exit menus.

# Color, Tint, Brightness, Picture, and Sharpness

Helpful Hints:

COLOR – Adjust for desired color intensity. TINT – Adjust for natural flesh tones. BRIGHTNESS – Adjust so dark areas of picture sligt

BRIGHTNESS – Adjust so dark areas of picture slightly become black for a crisp detail.

**PICTURE** – Adjust the white areas of the picture as desired.

SHARPNESS - Adjust for best clarity of outline detail.

1. Press 🛲 .

PC MODE

- 2. Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\bowtie$  to highlight the Picture Icon.
- 3. Press the read to display the VIDEO Adjustment menu.



- 4. Press A or ♥ to select the desired Video Adjustment (Color, Tint, Brightness, Picture, or Sharpness).
- 5. Press I or b to adjust your selection. (The selected Video Adjustment will be displayed.)
- 6. Repeat steps 4 and 5 for remaining Video Adjustments.
- 7. Press menus.

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## Picture Adjustments (cont'd.) Color Temp

To select one of three (3) options for picture temperature.

### Helpful Hints:

NORMAL - No tint

WARM - Reddish tint

COOL - Bluish tint

- 1. Press 📟 .
- 2. Press and and or by to highlight the Picture Icon.
- 3. Press (1) to display the Video Adjustment menu.



- Press A or ♥ to highlight COLOR TEMP.
- 5. Press ♥ or ♥ to select NORMAL, WARM, or COOL. NOTE: The selected Mode will also change Color Temp in TV Mode and DTV Mode.
- 6. Press menus.

## Audio Adjustment

Helpful Hints:

Setting PC Mode Audio Adjustments will also change TV Mode and DTV Mode Audio Adjustments.

### Audio Norm

This feature is used to reset Bass, Treble, and Balance back to a factory preset level.

- 1. Press .
- Press A or ♥ and ♥ or ₱ to highlight the Audio Icon.
- 3. Press from to display the Audio Adjustment menu.

AUDIO NORM ON BASS OT ON TREBLE OT ON BALANCE OT ON ORE

- 4. Press  $\triangle$  or  $\heartsuit$  to highlight AUDIO NORM.
- Press <sup>€</sup> or <sup>D</sup> to select "SET" to normalize Bass, Treble, and Balance.
- 6. Press ( twice to exit menus.

### Bass, Treble, and Balance

Use with front or rear PC audio input jacks when connected to a PC sound source audio output.

Helpful Hints:

**BASS** – To increase or decrease the Bass response **TREBLE** – To increase or decrease the Treble response

**BALANCE** – To emphasize the Right and Left speakers' volume

- 1. Press Com.
- 2. Press A or ♥ and ♥ or ₱ to highlight the Audio Icon.
- 3. Press multiplay the the Audio Adjustment menu.



- Press <sup>€</sup> or <sup>D</sup> to adjust for desired audio response. (The selected Audio Adjustment will be displayed.)
- 6. Repeat steps 4 and 5 for remaining audio functions.
- 7. Press (Know) twice to exit menus.

## Audio Adjustments (cont'd.)

### Speaker

This feature is used to turn the internal speakers "ON" or "OFF". It is used when the monitor is connected to an external audio amplifier. (Refer to "To Audio Amp" Connection section for further information.)

- 1. Press
- 2. Press  $\triangle$  or  $\nabla$  and  $\triangleleft$  or  $\triangle$  to select the Audio lcon.
- 3. Press com to display the Audio Adjustment menu.



- 4. Press  $\triangle$  or  $\overline{\heartsuit}$  to highlight SPEAKER.
- 5. Press ♥ or ♥ to select ON, OFF&VAO or · OFF&FAO.
- ON TV speakers operate normally.
- OFF&VAO (Variable Audio Output) TV speakers off, the sound output varies according to the TV volume, use the TV remote to control the volume, muting, bass, treble and balance of the External Stereo System.
- OFF&FAO (Fixed Audio Output) TV speakers off, sound output is fixed.
- 6. Press wice to exit menus.

## Surround

Use the Surround Feature to enhance audio response when listening to Stereo sound.

- 1. Press 🛲 .
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\bowtie$  or  $\bowtie$  to highlight the Audio lcon.
- 3. Press from to display the Audio Adjustment menu.



- 4. Press  $\triangle$  or  $\heartsuit$  to highlight SURROUND.
- 5. Press 🔍 or 🖗 to select SURROUND ON or OFF.
- 6. Press (ACTION) twice to exit menus.

## AI Sound

This feature is used to maintain constant sound level when switching between programs signals with different sound levels.

- 1. Press .
- Press A or and or b to highlight the Audio lcon.
- 3. Press et a display the the Audio Adjustment menu.



- 4. Press A or ♥ to highlight AI SOUND.
- 5. Press Sor to select AI SOUND ON or OFF.
- 6. Press menus.

## Set Up Features



**NOTE:** Setting the Auto Power On feature will cancel the time and timer control settings. Also, the TV Mode Main Menu Icon for the Timer Control will be replaced with an Exit icon.

- 4. Press 🛆 or  $\overline{\mathbb{V}}$  to highlight AUTO POWER ON.
- 5. Press 🔍 or 🖗 to select SET.
- 6. Press ( twice to exit menus.

## **Geomagnetic Corr (Correction)**

This monitor incorporates a special adjustment feature for the convenience of the customer. This adjustment is preset at the factory. However, adjustment may be required when the monitor is moved (due to the influence of earth's magnetic field) which may cause the picture to tilt slightly. If necessary, follow these procedures to adjust the tilt.

- 1. Press .
- Press or and or or to highlight the Set Up lcon.
- 3. Press (Action) to display the Set Up Menu.



Press A or ♥ to highlight GEOMAGNETIC CORR.

5. Press or boot to display the Geomagnetic Correction adjustment menu.



6. Press or boot to adjust the picture tilt until left and right side of tilt adjustment bar is parallel to the bottom of picture frame (if necessary).

- NOTE: Discoloration may be visible in picture corners if tilt bar is not parallel to the bottom of picture frame.
- 7. Press twice to exit menus.

## **Input Select**

This feature is used to select PC Input Front or PC Input Rear for the monitor Input signals.

- 1. Press
- Press A or ♥ and ♥ or ₱ to highlight the Input Select Icon.
- 3. Press (and) to display the Input Select Menu.



4. Press ♥ or ♥ to select FRONT or REAR.

- **NOTE:** PC Front or PC Rear can also be selected by pressing the Input button while Input Select menu is displayed.
- 5. Press com twice to exit menus.

PC MODE

## **Display Adj**

This feature is used to adjust the image on the monitor.

- 1. Press .
- 2. Press ♠ or ♥ and ♥ or ♥ to highlight the Display Adj Icon.
- 3. Press eres to display the Display Adj menu.



- 4. Press or vito highlight H. POSITION, H. SIZE, V. POSITION, V. SIZE, V. PCC, TRAPEZOID, or PARALLEL (PARALLELOGRAM).
- 5. Press or boot to adjust your selection. (The selected Display Adj will be displayed.)
- Repeat steps 4 and 5 for the remaining Display Adjustments.
- 7. Press twice to exit menus.



An input signal must be connected to the input terminals of the monitor, in order to access PC and DTV mode Icon menus.

: e<sup>st</sup>

**Component Video Connection** 

#### Operation

DTV Mode

- 1. Select DTV mode from the TV/PC/DTV menu (located in the TV/PC/DTV lcon).
- 2. Connect audio/video cables from the Component Video output terminals to the monitor DIGITAL TV INPUT terminals, as shown.
- NOTE: To operate your Monitor with component video devices properly, refer to the instructions furnished with the component video device.



#### (not supplied)

-: ;!

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## DTV Mode

**TV/PC/DTV** This feature is used to select the DTV mode for monitor display.

- 1. Press
- 3. Press ( to display the TV/PC/DTV MODE menu.



- 4. Press er or bo highlight DTV.
- 5. Press wice to exit menus.

## **Trilingual Animated Icons**

### **DTV Mode Icons**



NOTE: Only the selected icon (red) will be animated.

## **Picture Adjustments**

## **Picture Norm**

Use to reset Color, Tint, Brightness, Picture, and Sharpness to the factory preset level (DTV Mode).

- 1. Press (ACTION) .
- 2. Press  $\triangle$  or  $\overline{\nabla}$  and  $\overline{\nabla}$  or  $\overline{P}$  to highlight the Picture Icon.
- 3. Press ere to display the VIDEO Adjustment menu.





- 4. Press 🙈 or 🕅 to highlight PICTURE NORM.
- Press or box to select "SET" to normalize Color, Tint, Brightness, Picture, and Sharpness (DTV mode).
- 6. Press the mon twice to exit menus.

# Color, Tint, Brightness, Picture, and Sharpness

### Helpful Hints:

COLOR – Adjust for desired color intensity. TINT – Adjust for natural flesh tones.

BRIGHTNESS – Adjust so dark areas of picture slightly become black for a crisp detail.

**PICTURE** – Adjust the white areas of the picture as desired.

SHARPNESS - Adjust for best clarity of outline detail.

1. Press 📟 .

- 2. Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\bowtie$  to highlight the Picture lcon.
- Press the result to display the VIDEO Adjustment menu.



- Press A or ♥ to select the desired Video Adjustment (Color, Tint, Brightness, Picture, or Sharpness).
- 5. Press 🗐 or 🎾 to adjust your selection. (The selected Video Adjustment will be displayed.)
- 6. Repeat steps 4 and 5 for remaining Video Adjustments.
- 7. Press (Actuary) twice to exit menus.

## Picture Adjustment (cont'd.)

### Color Temp

Use to select one of three (3) options for picture temperature.

Helpful Hint	s: 🔬 🕹	
NORMAL - No tin	t	
WARM – Reddish tint		
COOL – Bluish tint		

- 1. Press 🕮
- Press or and or or to highlight the Picture lcon.
- 3. Press ( to display the Video Adjustment menu.



- 4. Press  $\triangle$  or  $\overline{\heartsuit}$  to highlight COLOR TEMP.
- 5. Press I or bot to select Normal, Warm, or Cool mode.
- 6. Press wice to exit menus.

## Audio Adjustment

Helpful Hints:

Setting DTV mode Audio Adjustments will also change TV Mode and PC mode Audio Adjustments.

## Audio Norm

This feature is used to reset Bass, Treble, and Balance back to a factory preset level.

- 1. Press
- Press A or ♥ and ♥ or ₱ to highlight the Audio Icon.
- 3. Press me to display the Audio Adjustment menu.

- AUDIO AUDIO AUDIO NORM ON BASS TREBLE BALANCE COST
- 4. Press  $\triangle$  or  $\heartsuit$  to highlight AUDIO NORM.
- Press ♥ or ♥ to select "SET" to normalize Bass, Treble, and Balance.
- 6. Press (Action) twice to exit menus.

## Bass, Treble, and Balance

Helpful Hints:

**BASS** – To increase or decrease the Bass response **TREBLE** – To increase or decrease the Treble response **BALANCE** – To emphasize the Bight and Left

BALANCE - To emphasize the Right and Left speakers' volume

- 1. Press 📟 .
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\blacklozenge$  to highlight the Audio Icon.
- 3. Press et a display the the Audio Adjustment menu.



- 4. Press A or ♥ to highlight BASS, TREBLE, or BALANCE.
- 5. Press <sup>€</sup> or <sup>≫</sup> to adjust for desired audio response. (The selected Audio Adjustment will be displayed.)
- 6. Repeat steps 4 and 5 for remaining audio functions.
- 7. Press (ACTION) twice to exit menus.

## Audio Adjustments (cont'd.)

### Speaker

This feature is used to turn the internal speakers "ON" or "OFF". It is used when the monitor is connected to an External Audio Amplifier. (Refer to "To Audio Amp" Connection section for further information.)

- 1. Press .
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\triangleright$  to select the Audio Icon.
- 3. Press row to display the Audio Adjustment menu.



- 4. Press  $\triangle$  or  $\overline{\nabla}$  to highlight SPEAKER.
- 5. Press ♥ or ▶ to select ON, OFF&VAO or OFF&FAO.
- ON TV speakers operate normally.
- OFF&VAO (Variable Audio Output) TV speakers off, the sound output varies according to the TV volume, use the TV remote to control the volume, muting, bass, treble and balance of the External Stereo System.
- OFF&FAO (Fixed Audio Output) TV speakers off, sound output is fixed.
- 6. Press (ACTION) twice to exit menus.

## Surround

Use the Surround Feature to enhance audio response when listening to Stereo sound.

- 1. Press 📟 .
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\heartsuit$  or  $\bowtie$  to highlight the Audio Icon.
- 3. Press re to display the Audio Adjustment menu.



- 4. Press 🗟 or  $\overline{\heartsuit}$  to highlight SURROUND.
- 5. Press  $\mathfrak{R}$  or  $\mathfrak{P}$  to select SURROUND ON or OFF.
- 6. Press ( twice to exit menus.

## Al Sound

This feature is used to maintain constant sound level when switching between programs with different sound levels.

- 1. Press 📟 .
- 2. Press  $\triangle$  or  $\heartsuit$  and  $\bowtie$  or  $\bowtie$  to highlight the Audio lcon.
- 3. Press to display the the Audio Adjustment menu.



- 4. Press 🛆 or  $\overline{\mathfrak{V}}$  to highlight AI SOUND.
- 5. Press or boto select AI SOUND ON or OFF.
- 6. Press twice to exit menus.

## Set Up Features



3. Press (arrow) to display the Set Up menu.

7. Press menus.

Troubleshooting Chart Before you call for service, determine the symptoms and make a few simple checks shown below.

	Symptoms				
	Picture	Sound	Check		
	SNOWY PICTURE	NOISY SOUND	<ul> <li>INPUT CONNECTORS SEATED PROPERLY</li> <li>EQUIPMENT CONNECTED TO INPUT CONNECTIONS</li> <li>ANTENNA LOCATION AND/OR CONNECTION</li> </ul>		
	INTERFERENCE		<ul> <li>ELECTRICAL APPLIANCES, LIGHTS, CARS AND TRUCKS</li> <li>DIATHERMY AND OTHER MEDICAL EQUIPMENT</li> <li>VIDEO INPUT CONNECTOR SEATED PROPERLY</li> </ul>		
		NO SOUND	<ul> <li>VOLUME CONTROL SETTING</li> <li>TV SPEAKERS (IF APPLICABLE) IN THE OFF MODE</li> <li>AUDIO INPUT CONNECTOR SEATED PROPERLY</li> <li>TRY ANOTHER CHANNEL</li> </ul>		
			<ul> <li>THAT AC POWER LINE IS PLUGGED INTO AC OUTLET</li> <li>BRIGHTNESS AND AUDIO CONTROLS SET PROPERLY</li> <li>VIDEO AND AUDIO INPUT CONNECTORS SEATED PROPERLY</li> <li>TRY ANOTHER CHANNEL</li> </ul>		
	NO COLOR		<ul> <li>COLOR CONTROL SETTINGS</li> <li>TRY ANOTHER CHANNEL</li> </ul>		
7	VIDEO 1 BLACK PICTURE		- MONITOR/RECEIVER IN VIDEO MODE WITH NO SIGNAL		
•	СНК	NORMAL SOUND	- PRESS AND HOLD ACTION <b>AND</b> POWER BUTTONS ON THE CONTROL PANEL AT THE SAME TIME FOR 5 SECONDS. SCREEN WILL SHUT OFF, THEN TURN BACK ON: TV WILL BE SET TO CHANNEL 3 AND CYCLE THROUGH A SPECIAL TEST		
	PC MODE SCRAMBLED IMAGE	NO SOUND	<ul> <li>COMPUTER CABLE SEATED PROPERLY</li> <li>COMPUTER RESOLUTION NOT SET PROPERLY (REFER TO FOLLOWING PAGES FOR SET UP PROCEDURES)</li> </ul>		
	DISCOLORATION		<ul> <li>ADJUST GEOMAGNETIC CORRECTION LOCATED IN THE SET-UP MENU (IF APPLICABLE)</li> </ul>		
	DISCOLORED PICTURE	NORMAL SOUND	<ul> <li>MOVE UNSHIELDED SPEAKERS AWAY FROM PICTURE TUBE</li> <li>TURN OFF SET. ALLOW TO COOL. TURN SET BACK ON</li> </ul>		
	CHK CHK MODE	NORMAL SOUND	<ul> <li>PRESS AND HOLD ACTION AND POWER BUTTONS ON THE CONTROL PANEL AT THE SAME TIME FOR 5 SECONDS. SCREEN WILL SHUT OFF, THEN TURN BACK ON. TV WILL BE SET TO CHANNEL 3 AND CYCLE THROUGH A SPECIAL TEST</li> </ul>		

## Troubleshooting (cont'd.)

### Computer Resolution Set Up For Windows 95 Version

The resolution on your computer may have to be set to  $800 \times 600$  pixels or less. To change, follow these procedures.

- 1. Shut down and restart the computer.
- 2. While the "Starting Windows 95" message is displayed on screen, quickly press "F8" key, then press ENTER key.



3. Windows 95 Start up menu will be displayed. Then select "Safe mode" by using down arrow key or type in the number.

	rosoft win tup menu	dows 95	÷
1. 2. 3.[ 4. 5.	safe mod	9	

4. Press "ENTER" key.



- TROUBLESHOOTING
- 5. Click on the "Start" button, and then point to Settings.



6. Click on "Control Panel".

7. Double-click "Display" icon. The Display Properties box will appears.



8. Click on the tab labeled "Setting" at the top of the Display Properties box.



9. Select resolution from the "Desktop Area" menu box, 800 x 600 pixels or less, then click OK.



- 10. Restart the computer before the new setting will take effect.
- 11. Restart Windows 95 in normal mode.

## Troubleshooting (cont'd.)

### Computer Resolution Set Up For Windows Version 3.X

The resolution on your computer may have to be set to VGA. To change, follow these procedures.

1. Restart the computer from DOS.



2. Type "cd\windows", then press ENTER key on Computer keyboard.



3. Type "setup", then press ENTER key on Computer keyboard.

G WI	NDOWS	>cciup		
2				
				,
				-

4. Windows Setup screen will be displayed. Press the Up or Down arrow key on the computer keyboard to highlight "Display".

WindowsSett	Ð	
Computer	MS=DOSever	
Display	VGA	
000000		
000000		
000000		
Complete Chang	est Acceptitheconfiguratio	nshownabove
	00 00000 000000 00 00000 000000	t .

5. Press ENTER key.

6. Press ENTER key, then press the Down arrow key on the computer keyboard to highlight "VGA".

WindowsGatup
youhaveaskedtochangethetypeoDisplayto
boinstalled
00000000 00000000
00000000 00000000
00000000 00000000
00000000 00000000
00000000
00000000
VGA
00000000
(foceemono(thelisteressthe(t))arrowter)

 Press ENTER key while VGA is highlighted. The screen will return to previous Windows Setup screen, then check that Display setting was changed to VGA.

WindowsSetup	
Computer Display	MS=0036vstam VGA
00000	
000000 (Amailaineirean	
	Acceptible configuration chownabove
000000 000000	000000 000000

8. Press ENTER key while "Accept the configuration shown above" is highlighted.

WindowsSetup	
Computer	MS=DOSsystem
Display	MAY.
000000	0124
000000	
000000	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Complete Changes:	Accept the configuration shown above
000000 000000	000000 000000
000000 000000	000000 000000

9. Press ENTER key to accept driver. This will return you back to DOS prompt. Then enter Windows 3.X from DOS.



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Printed in U.S.A TQB2AA0172