

SANYO



Model Nos: **HT27745**
No. de Modelo: **HT28745**
Nº de modèle : **HT28745**

Owner's Manual

ENGLISH

Table of Contents 3

Manual de Instrucciones

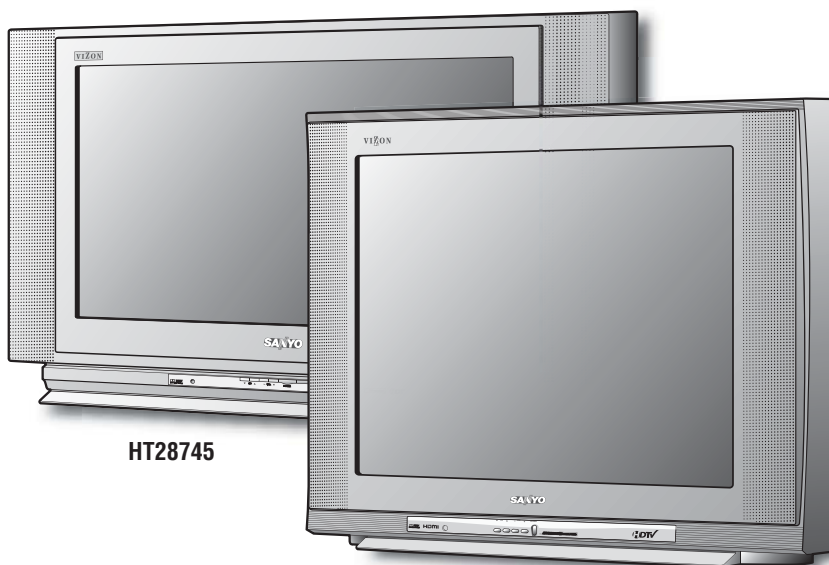
ESPAÑOL

Contenido 25

Manuel d'instructions

FRANÇAIS

Table des matières . . 49



HT28745

HT27745



*As Real
As It Gets!*



MediaStack-ATSC
the DTV software embedded in
this product copyright (c) 2004
by Zentek Technology, Inc.
All rights reserved.

"Read this manual before assembling (or using) this product."

Need assistance?

Visit our website at **www.sanyoctv.com**
or Call toll free **1.800.877.5032**

We can Help!



"As an ENERGY STAR® Partner, Sanyo Manufacturing Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency."

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CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT. THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THIS UNIT.
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WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: PLEASE ADHERE TO ALL WARNINGS ON THE PRODUCT AND IN THE OPERATING INSTRUCTIONS. BEFORE OPERATING THE PRODUCT, PLEASE READ ALL OF THE SAFETY AND OPERATING INSTRUCTIONS. RETAIN THIS LITERATURE FOR REFERENCE. Follow all instructions...

Positioning the Appliance

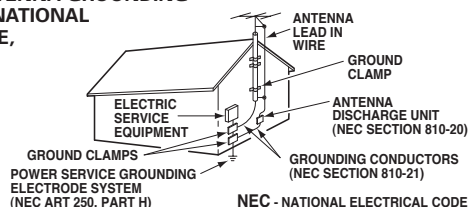
1. Do not place your appliance on an unstable cart, stand, shelf or table. Serious injury to an individual, and damage to the appliance, may result if it should fall. Your salesperson can recommend approved carts and stands or shelf and wall mounting instructions. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
2. Slots and openings in the cabinet and in the back or bottom are provided for ventilation. To ensure reliable operation of the appliance and to protect it from overheating, these openings must not be blocked or covered. The openings should never be covered with a cloth or other material, and the bottom openings should not be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This appliance should never be placed near or over a radiator or heat register. This appliance should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
3. Do not expose the appliance to rain or use near water . . . for example, near a bathtub, swimming pool, kitchen sink, in a wet basement, etc.



Hooking Up Outdoor Antenna

LIGHTNING PROTECTION FOR YOUR ANTENNA AND SET AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS.

**EXAMPLE OF ANTENNA GROUNDING
ACCORDING TO NATIONAL
ELECTRICAL CODE,
ANSI/NFPA 70**



"Note to CATV system installer:

This reminder is provided to call 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."

4. If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, 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.

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.

Plug in the power cord

5. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. This product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power 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.

6. Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

Cleaning

7. Before cleaning, unplug the unit from the wall outlet. Do not apply liquid cleaners or aerosol cleaners directly to the unit. Use a dry cloth for cleaning.

Service & Repair

8. Unplug the appliance from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. If the power cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the appliance.
 - C. If the appliance has been exposed to rain or water.
 - D. If the appliance has been dropped or the cabinet has been damaged.
 - E. If the appliance exhibits a distinct change in performance.
 - F. If the appliance does not operate normally by following the operating instructions, adjust only those controls that are covered in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to normal operation.
9. Upon completion of any service or repair, request the service technician's assurance that only Factory Authorized Replacement Parts that have the same characteristics as the original parts were used, and that routine safety checks have been performed to determine that the appliance is in safe operating condition. Unauthorized substitutions may result in fire, electrical shock, or other hazards.
10. Never add accessories that have not been specifically designed for use with this appliance as they may cause hazards.
11. For added protection during a lightning storm, or when the set 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 set due to lightning or power line surges.
12. Never push objects of any kind into this product through openings 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 product.

CHILD SAFETY

Sanyo is committed to making home entertainment safe and enjoyable. Always use an appropriate table or stand when positioning your DTV. Use appropriate brackets, braces, or straps to anchor your furniture in place. But never screw anything directly to the television.

Do not place televisions on dressers, shelves, desks, carts, etc. where curious or excited children could pull, push, or otherwise cause the unit to fall and cause personal injury.

Never place toys or other items on top of the DTV that could pique children's curiosity causing them to climb about the furniture.

Always use stands that are designed to support the size and combined weight of your television and other electronic devices.



TO THE OWNER

Welcome to the World of Sanyo

Thank you for purchasing this Sanyo High-Definition Digital Television. You made an excellent choice for Performance, Reliability, Features, Value, and Styling.

Important Information

Before installing and operating this DTV, read this manual thoroughly. This DTV provides many convenient features and functions. Operating the DTV properly enables you to manage

those features and maintain it in good condition for many years to come.

*If your DTV seems to operate improperly, read this manual again, check operations and cable connections and try the solutions in the "Helpful Hints" section, page 22 of this manual. If the problem still persists, visit our website at **www.sanyoctv.com** or call 1.800.877.5032. **We can help!***

CONTENTS

Important Safety Instructions	2
To the Owner	3
Contents	3
Features	4
Specifications	4
First-Things-First (Required Initial Setup)	5
Digital (DTV) Antenna Connection	5
Analog (RF) Antenna Connection	5
Installing Batteries	6
Channel Search	6
Auto Clock Setting	6
Antenna Selection (Optional)	6
DTV Back—Jacks Locations & Functions	7
Glossary of Cables	7
Choose Your Connection	8
Digital A/V Connections	
Using the Component Jacks to connect a DVD Player or Other Digital Equipment	9
Connecting Digital Audio Out Jacks to a Multi-Channel Receiver ..	9
Analog A/V Connections	
Using the Analog Video Jacks to connect a VCR (or Other Analog Device)	10
Connecting Analog Audio Out Jacks to a Stereo Amplifier	10
Using the Remote Control	11 ~ 12
DTV Adjustment and Setup	
How to Operate the On-Screen Menu	13
Menu Navigation Map	13
Channel Setup Options:	
Channel Search	14
Digital Cable Search	14
Digital Add-On Search	15
Antenna Selection	15
Channel Scan Memory	16
Initial Channel	16
Closed-Captioning Options:	
Changing the Look of Digital Captioning	
On-Screen Display	17
To View Captions	17
V-Guide (Parental Control) Options:	
To Block Movies or TV Programs	18
To Temporarily Unblock Movies or TV Programs	18
To Unblock Movies or TV Programs	18
TV Ratings (Age and Content-Based)	
Symbol Explanation	19
MPAA Movie Ratings (Age-Based)	
Symbol Explanation	19
Setup Menu Options:	
Auto Date / Time Setting	19
Manual Date / Time Setting	19
Digital Audio Output	20
DTV Speakers	20
Menu Language	20
Picture/Sound Adjustment Options:	
Preset Picture and Sound Options	20
Manual Picture and Sound Adjustment	21
Color Enhancer	21
Scan Velocity	21
Helpful Hints (Problems/Solutions)	22
Warranty (Mexico)	23
Warranty (U.S.A. and Canada)	24
Care and Cleaning	24

FEATURES

- ◆ 27" / 28" High-Definition Digital True Flat-screens
- ◆ Trilingual Menu Options (English, French, or Spanish)
- ◆ Built-in Digital and Analog Tuners
- ◆ Automatic Channel Search
- ◆ Auto Shut Off (no signal received after 15 minutes)
- ◆ 3-Line Digital Comb Filter (for better picture detail)
- ◆ Adjustable Scan Velocity Modulation
- ◆ V-Chip for Movies and TV guidelines rating limits (parental control)
- ◆ Closed-Captioning: Analog EIA-608B
Digital EIA-708B
- ◆ Audio Modes: DTV—Main and Sub
NTSC—Stereo, Mono, and SAP
- ◆ Front Surround Sound
- ◆ Bass / Treble Sound
- ◆ Front speakers 6 x 12 cm (two)
- ◆ Factory preset adjustments for picture/sound
- ◆ Picture Shape: Letter box (HT27745 only), Zoom, Normal, and Full (HT28745 only)
- ◆ Initial Channel (automatic selection)
- ◆ Receivable Formats: Digital Tuner for ATSC terrestrial broadcasts and nonscrambled (ClearQAM) cable programs.
NTSC analog tuner for VHF/UHF or CATV
- ◆ Audio Format: Dolby® Digital for DTV and Analog for NTSC
- ◆ Channel Scan Memory
- ◆ Color Enhancer
- ◆ Auto Flesh Tone
- ◆ Receives 181 Analog Channels [VHF 2~13 and UHF 14~69; Cable DTV 1, 14~125]; and 99 Digital Channels
- ◆ RF Antenna Input Jacks: Digital and Analog
- ◆ Component Video Input (Two Sets)
- ◆ Rear AV Input (Two Sets)
- ◆ S-Video Input (Two Sets)
- ◆ Optical Digital Audio Out
- ◆ Audio Out fixed
- ◆ Clock (auto clock)
- ◆ XDS (Extended Data Services) displays station call letters, Title of show, and ratings when broadcast
- ◆ Sleep Timer (3 hours)
- ◆ 32-Key Remote Control

SPECIFICATIONS

Picture Tube Size (Measured Diagonally):

HT27745- 27"	True-Flat Screen Integrated HDTV
HT28745- 28"	True-Flat Wide Screen Integrated HDTV

Scanning Format: 1080i [All Signals are Converted to 1080i]

RF Antenna Input: Analog—UHF/VHF/CATV 75 ohm
Digital—75 ohm

No Signal Reception: When tuned to an Analog Channel, and no signal is present for more than 15 minutes, the DTV automatically switches OFF. In Video Modes, DTV will NOT switch off automatically.

Power Requirement: Source: AC 120V, 60Hz

Power Consumption: 140 Watts (Average)

Sound: Two Speakers, size: 6 x 12cm

Amplifier: Built-in with 5.0W/ch

Jacks / Connectors:

Video 1 Input:	S-Video1, Video and Audio L/R
Video 2 Input:	S-Video2, Video and Audio L/R
Compo 2 Input:	Component (Y/Pb/Pr), with shared Video 2 Audio L/R Input
Compo 3 Input:	Component (Y/Pb/Pr), and Audio 3 L/R Input
Digital Audio Output:	Dolby Digital (Optical)
Analog Audio Output:	Audio L/R
Service Input Terminal:	For Technical use only (Phone jack)

Size and Weight (approximately):

HT27745—27"

Horizontal Dim. (Width):	30.3 in. (770mm)
Vertical Dim. (Height):	23.0 in. (585mm)
Depth Dim. (Thickness):	19.5 in. (496mm)
Weight:	103.5 (lbs.), 47.0 (Kg)

HT28745—28"

Horizontal Dim. (Width):	33.8 in. (858mm)
Vertical Dim. (Height):	21.4 in. (543mm)
Depth Dim. (Thickness):	21.2 in. (537mm)
Weight:	92.3 (lbs.), 41.9 (Kg)

Specifications are subject to change without notice.

CAUTION: FCC Regulations state that improper modifications or unauthorized changes to this unit may void the user's authority to operate the unit.

Trademarks Information:

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.



This symbol on the nameplate means the product is Listed by Underwriters' Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

FIRST-THINGS-FIRST

This new high-definition digital television is capable of reproducing a crystal clear picture and exceptional sound. ***The signal makes the difference!***

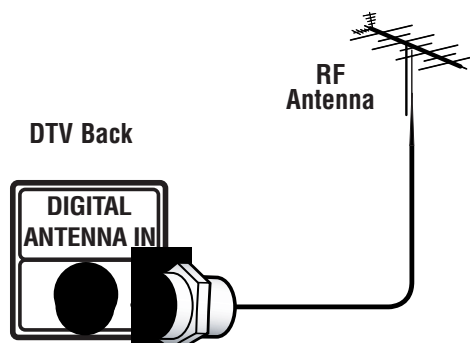
1 INITIAL SIGNAL CONNECTIONS

Digital (DTV) Antenna Connection

- Connect an RF antenna to the Digital Antenna In terminal.

The digital tuner in this DTV receives HD signals from an antenna. Digital signals from a STB are received through a STB via the Component In jacks.

This DTV can receive and display ANY resolution being broadcast (HDTV, EDTV, or SDTV).



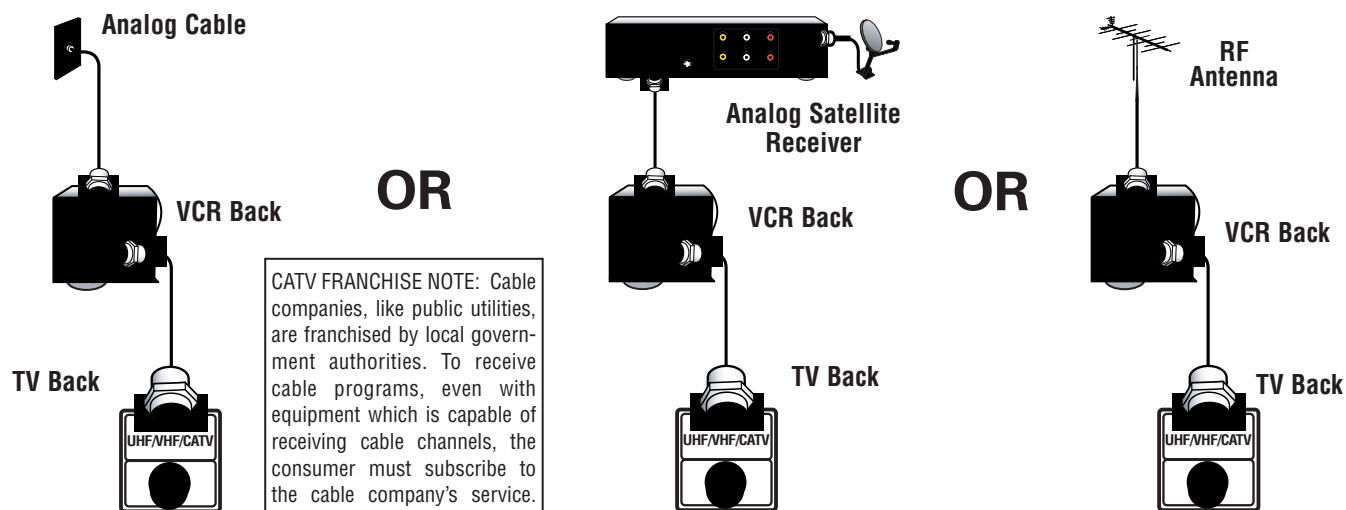
Analog RF Antenna Connection

- Connect a Cable signal (with or without a cable box), Satellite Receiver, or RF antenna to the Analog RF input.

The analog tuner in this DTV receives Analog Antenna signals, Analog Cable signals, or the RF output from a Satellite Receiver, VCR, or cable box.

NOTES: If you do not have a VCR connect signal directly to DTV 75 (UHF/VHF/CATV) ohm terminal.

The only resolution available with any of these connections, regardless of the original content, is standard analog (SDTV).



(Continued on next page.)

Quick Tips

- DTV will select the correct Antenna mode for the type of Analog RF signal connected automatically.
- Use "Antenna Selection" in the Setup menu to change the Antenna Mode.
- DTV will switch off automatically after 15 minutes if there is no signal reception (cable out or station not broadcasting).

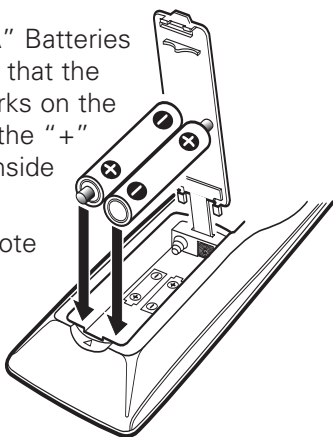
Exception—When the Video mode is selected, the DTV will not automatically switch off when signal reception has stopped for 15 minutes.

- If you move the DTV to a new location, press the **RESET** key twice after connecting the signal and turning on the DTV.

2 INSTALL TWO "AAA" BATTERIES

- Install two "AAA" Batteries (not included) so that the "+" and "-" marks on the batteries match the "+" and "-" marks inside the Remote.

To review the Remote functions, go to Pages 11 ~ 12.



Quick Tips

- Remove the batteries if the remote control will not be used for a month or more. Weak batteries may leak and cause damage. (Normal battery life is roughly six months.)
- If batteries have leaked in the Remote Control Unit, carefully wipe the case clean and load new batteries.

IMPORTANT NOTE: Spent or discharged batteries must be recycled or disposed properly in compliance with all applicable laws. For detailed information, contact your local County Solid Waste Authority.

4 AUTO CLOCK SETTING (Optional)

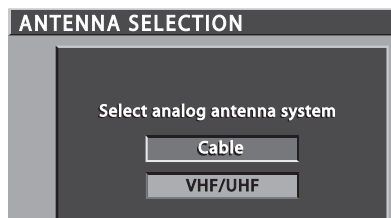
After channel search is complete, the DTV will begin Auto Clock setting. This feature searches for a local PBS station that is broadcasting an extended data service signal. This signal is used to automatically set the clock/day. (This may take several seconds.) To cancel auto clock setting, press the **CHANNEL UP** key. (To set the clock manually, see page 19.)

Please wait,
Automatic clock setting.

Press Channel UP key
to cancel.

5 ANTENNA SELECTION (Optional)

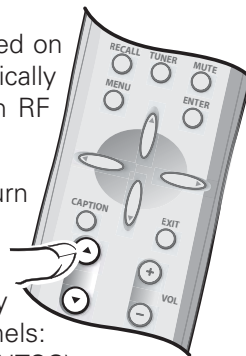
To change the initial ANALOG tuning system setup (from antenna to cable or cable to antenna), use the on-screen menu. See "Antenna Selection" on page 15.



3 CHANNEL SEARCH

When the television is powered on for the first time, it automatically checks for the presence of an RF signal.

- Press the **POWER** key to turn on the DTV.
- Then press the **CHANNEL UP** key to automatically search for available channels: Digital (ATSC) and Analog (NTSC).



The Channel Search contains two processes that are executed simultaneously for digital and analog channels.

First

Please connect all signals
and antennas to jacks and
the terminals on the back.

Then press Channel UP key.

Please wait,
while your TV searches
for available channels

50%

Digital Antenna 35

NOTES:

The on-screen message for digital search will appear with a progress bar and percentile number displayed across the bottom of the screen (to indicate activity) as the search process continues. (Channel numbers will appear under the progress bar only when a digital channel is found.)

Channel information found during the channel search is stored in the Channel Scan Memory database. After the channel search is completed, the DTV will tune to the lowest Digital channel or lowest Analog channel if no digital channels are found.

If the DTV does not detect any digital or analog channels, a message advising the viewer to check the cables and antenna connections will appear. In this case, you must press the **CHANNEL UP** key again to repeat the channel search process. If after two searches the DTV still fails to detect any channels, the DTV will tune to analog channel 3. **These two channel searches are necessary even if you plan to use the DTV only as a monitor.**

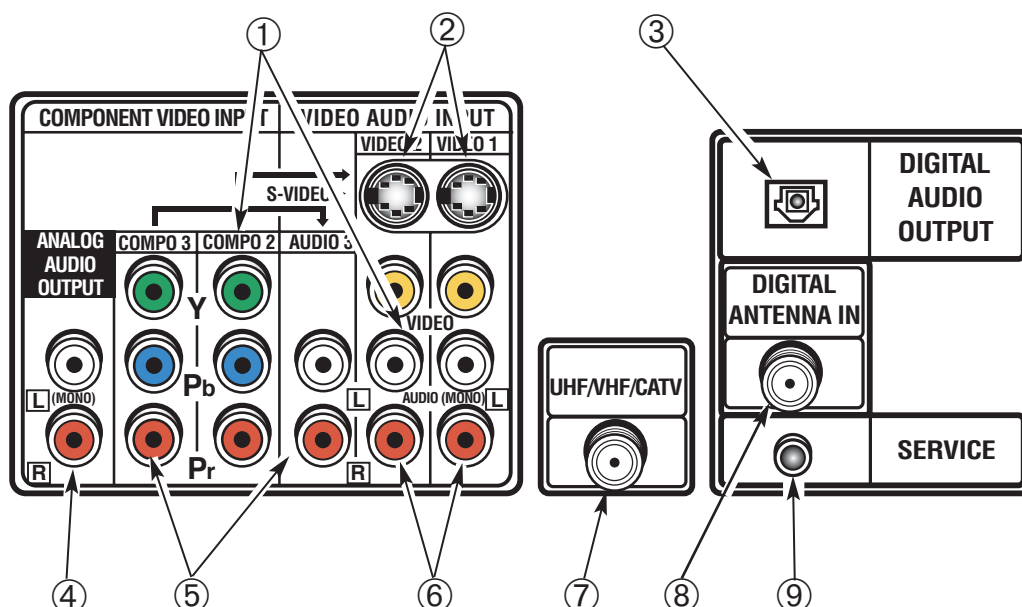
No input signal sources
could be located.

Please check cable or
antenna connections.

Then press Channel UP key.

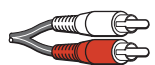
If no analog or digital channels are found after the second search, Channel Search will default to off-air analog channels 2 through 69 and digital channel D3-1. Select analog channels using the remote control keypad. See page 11, item number 3.

HDTV BACK—JACKS LOCATIONS AND FUNCTIONS

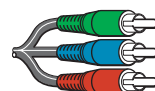


- ① **Component Video Input (COMPO 2)**—Connect digital video equipment to the Y, Pb, Pr and Video 2 Audio L/R jacks. These jacks will automatically detect the type of signal being received (HDTV, EDTV, or SDTV). (See page 9.)
- ② **S-Video (Video 1 and 2) Input**—To enhance video detail, use the S-Video (Video 1/2) jacks instead of the Video jacks, if available on your external equipment. (S-Video connections will override connections to the Video 1/2 input jacks.) (See page 10.)
- ③ **Digital Audio Output**—Use an Optical Audio cable to connect the Digital Audio Output to an advanced stereo home theater system equipped with Dolby® Digital 5.1. (See page 9.)
- ④ **Analog Audio Out (L/R) Jacks**—Connect external audio equipment here. (See page 10.)
- ⑤ **Component Video Input (COMPO 3)**—Connect digital video equipment to the Y, Pb, Pr and Audio 3 (L/R) jacks. These jacks will automatically detect the type of signal being received (HDTV, EDTV, or SDTV). (See page 9.)
- ⑥ **Audio/Video Input (VIDEO1/VIDEO2)**—Connect standard video equipment here. (See page 10.)
NOTE: S-Video1/2 connections override the AV1/2 video composite connections.
- ⑦ **Analog Antenna Input (UHF/VHF/CATV)**—Connect an RF antenna, cable, or satellite receiver to this terminal as shown on page 5.
- ⑧ **Digital Antenna Input**—Connect an RF antenna to this terminal as shown on page 5.
- ⑨ **Service Terminal**—For technical use only.

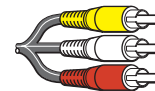
GLOSSARY OF CABLES



Audio Cables—Provides analog left/right audio for your external equipment connections.



Component: Y, Pb, Pr—Use these cables to connect your component equipment. This connection provides the best picture, but does not include sound. (Cable colors: Y = green, Pb = blue, and Pr = red.)



Composite Audio/Video (RCA type)—Use these cables for standard analog audio/video connections. Normally cables are color coded: Yellow for Video, White for (L) Audio, and Red for (R) Audio.



Coaxial Cable—Used to connect a signal to your digital or Analog RF Antenna In terminal.



Optical Digital Audio—Use this cable to connect the DTV's digital audio output to a multi-channel audio receiver.



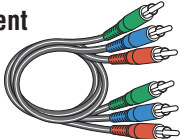
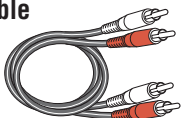
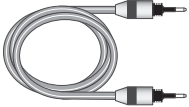
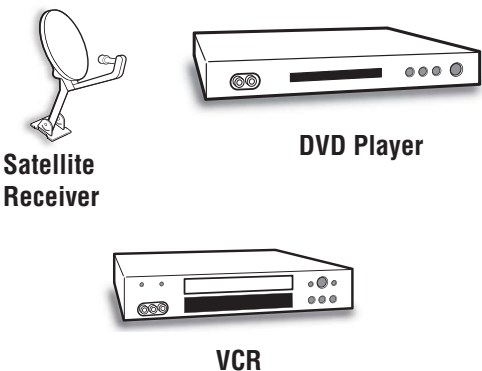
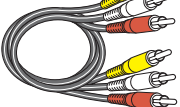
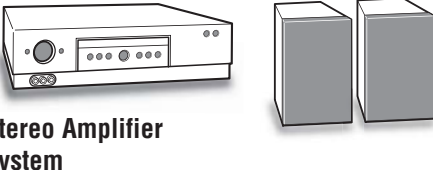
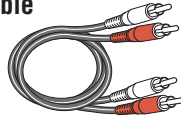
S-Video Cable—This cable provides separate luminance and color signals for higher resolution and better picture quality. Use this cable instead of the regular composite video cable (RCA type), when available.

NOTE: None of these cables are supplied with this DTV.

CHOOSE YOUR CONNECTION

This DTV is designed to handle several different connections making it compatible with Digital and Analog devices.

In order to receive the best performance from your DTV, choose your connection using this chart; then go to the specified page for detailed instructions.

Digital Signal Connections	Compatible External Equipment	Cables Needed (Not Supplied)	Go to Page
COMPONENT (Y, Pb, Pr) IN <i>Will accept HDTV, EDTV, or SDTV Video content.</i> <i>(Requires separate audio connections.)</i>	 Satellite Receiver Digital Cable Box or DVD Player	Component Video Cable  Audio Cable 	9
DIGITAL AUDIO OUT <i>(Only available when received as part of a Digital RF signal.)</i>	 Multi-Channel Receiver	Optical Digital Cable 	9
Analog Signal Connections	Compatible External Equipment	Cables Needed (Not Supplied)	Go to Page
COMPOSITE VIDEO OR S-VIDEO IN LEFT / RIGHT ANALOG AUDIO IN	 Satellite Receiver DVD Player VCR	Composite Video Cable  S-Video Cable 	10
ANALOG AUDIO OUT JACKS	 Stereo Amplifier System	Audio Cable 	10

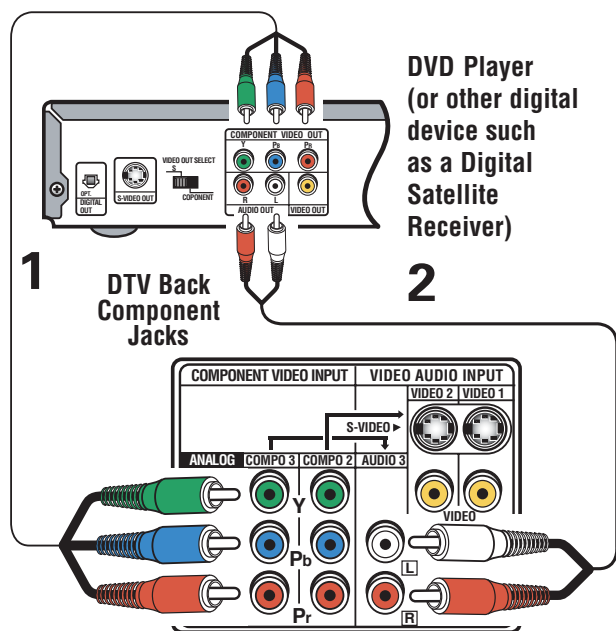
DIGITAL A/V CONNECTIONS

USING COMPONENT JACKS TO CONNECT A DVD PLAYER OR OTHER DIGITAL EQUIPMENT

The Component Video jacks will accept HDTV, EDTV, or SDTV video content.

Switch off DTV and external equipment before connecting cables. (Cables are not supplied.) Follow these steps to easily connect your STB or DVD to this DTV:

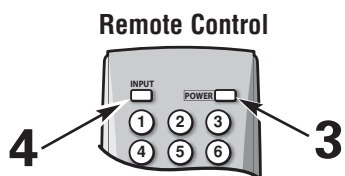
- 1 Connect DVD Player or other digital equipment's Component Video Out to the DTV's Component Video Input jacks.
- 2 Connect DVD Player or other digital equipment's Audio Out to the DTV's Audio 3 Input jacks.
- 3 Press **POWER** to turn on the DTV, then turn on external equipment.
- 4 Press the **INPUT** to select COMPONENT3 or COMPONENT2 to view the DVD program.



What you will need for connections:

Component Video Cable – 1

Audio Cable – 1



CONNECTING DIGITAL AUDIO OUT JACKS TO A MULTI-CHANNEL RECEIVER

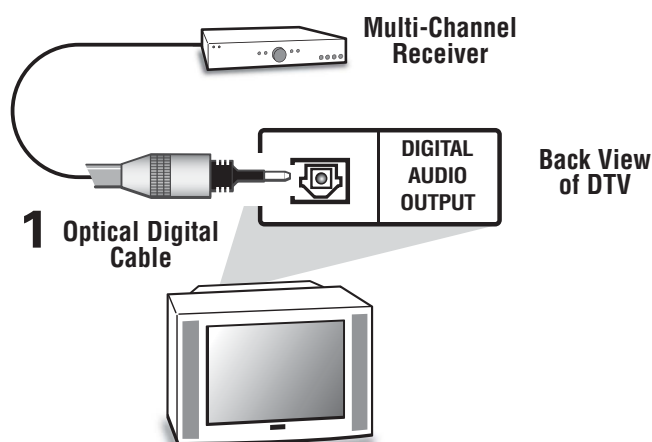
Dolby® Digital Audio provides 5.1 channels of surround sound (five full-range channels [5] and one low-frequency effect channel [.1]). A fiber optics cable is used to carry the 5.1 surround sound (for low-noise signal transfer).

- 1 Using a Fiber Optics cable, connect the DTV's Digital Audio Output to the Digital Audio Input of a Multi-Channel Receiver. (Fiber optics cable is not supplied.)
- 2 Press **POWER** to turn on the DTV, then turn on external equipment.

NOTES:

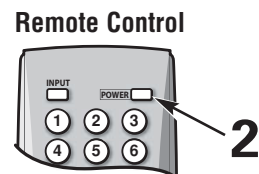
When making the connection, do not pinch or kink the fiber optics cable.

Red light visible at the Digital Audio Output does not necessarily indicate that Dolby 5.1 audio is available. Digital audio is made up of light pulses that the human eye cannot detect. Dolby 5.1 audio is available at the Digital Audio Output only when received as part of a Digital antenna signal.



What you will need for connections:

Optical Cable – 1



Quick Tips

- COMPO2 and COMPO3 jacks have identical functions. Compatible video devices can be connected to either set of jacks.
- Press the **INPUT** key after connecting the cables, to select the COMPO2 or COMPO3 input signal. There is NO need to tune to a blank channel.
- “No Signal” will appear randomly on the screen when no signal is detected at the COMPO2 or COMPO3 inputs.
- Position your DTV at least 2 feet from stereo speakers. The magnets in the speakers may affect the picture quality.

ANALOG A/V CONNECTIONS

USING THE ANALOG VIDEO JACKS TO CONNECT A VCR (OR OTHER ANALOG DEVICE)

Switch off DTV and external equipment before connecting cables. *(Cables are not supplied.)*

- 1 Connect VCR's Audio Video Out to the DTV's Video In jacks.

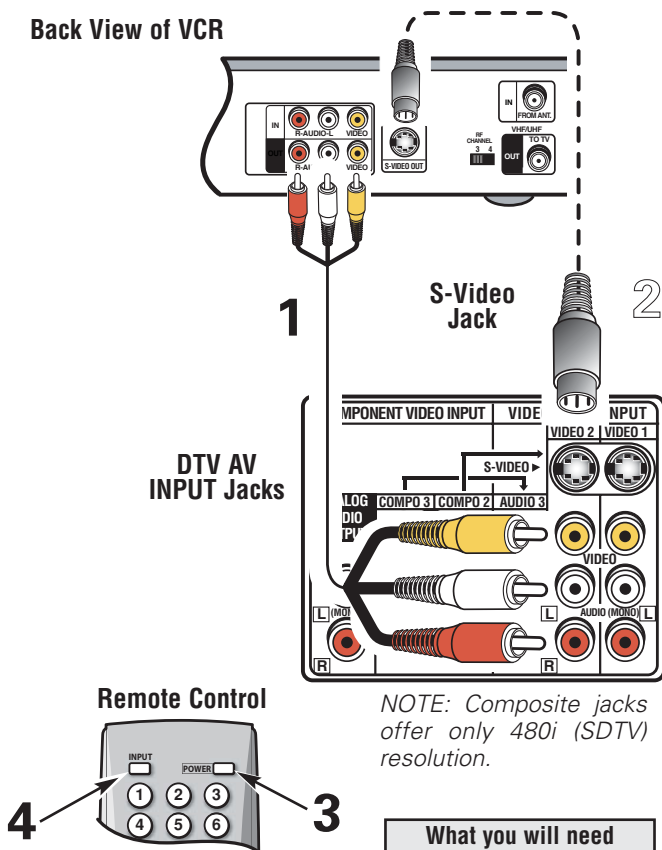
NOTE: For Mono VCR (Single Audio Jack), connect VCR Audio Out to DTV Audio (L) Input.

- 2 *Optional*
Connect VCR's S-Video Out to the DTV's S-Video In Jack.

NOTE: S-Video jacks connection override Video jacks connection.

- 3 Press **POWER** to turn on the DTV, then turn on external equipment.

- 4 Press the **INPUT** to select VIDEO 1 or VIDEO 2 to view the VCR program.



NOTE: Composite jacks offer only 480i (SDTV) resolution.

What you will need for connections:

Audio / Video Cable – 1
S-Video Cable – 1

CONNECTING ANALOG AUDIO OUT JACKS TO A STEREO AMPLIFIER

Switch off DTV and external equipment before connecting cables. *(Cables are not supplied.)*

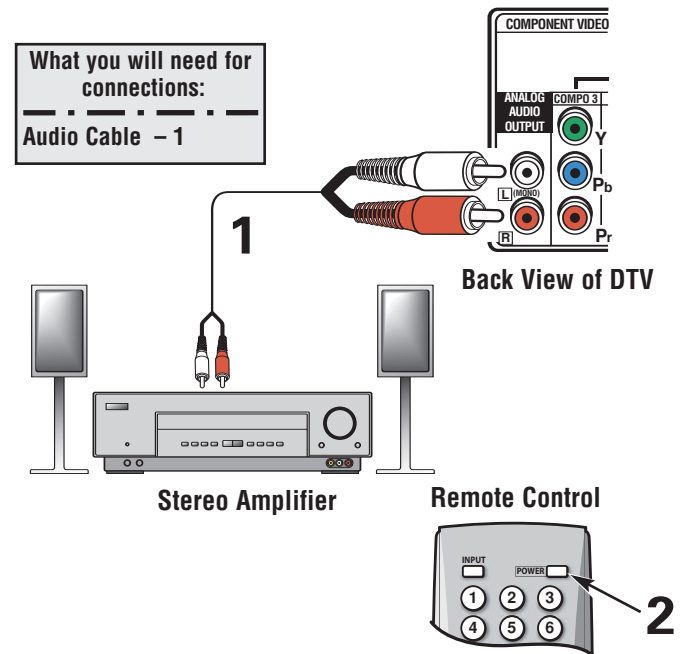
- 1 Connect the DTV Audio Out (R/L) to the Stereo Amplifier In (R/L).
- 2 Press **POWER** to turn on the DTV, then turn on external equipment.

NOTES:

Do not connect external speakers directly to the DTV.

When TV Speaker is in the ON mode, sound will be reproduced through your DTV and stereo amplifier.

When TV Speaker is in the OFF mode, sound will be reproduced only through the stereo amplifier. (See page 20 to set DTV speakers.)



Quick Tips

- Press **INPUT** key after connecting cables to access the VIDEO 1 or VIDEO 2 input. There is NO need to tune to a blank channel.
- VIDEO 1 and VIDEO 2 jacks have identical functions. Any compatible analog video device can be connected to either set of jacks.
- "No Signal" will appear randomly on the screen when no signal is detected at the VIDEO 1 or VIDEO 2 inputs.
- Position your DTV at least 2 feet from stereo speakers. The magnets in the speakers may affect the picture quality.

USING THE REMOTE CONTROL



PRECAUTIONS

To ensure safe operation, please observe the following precautions:

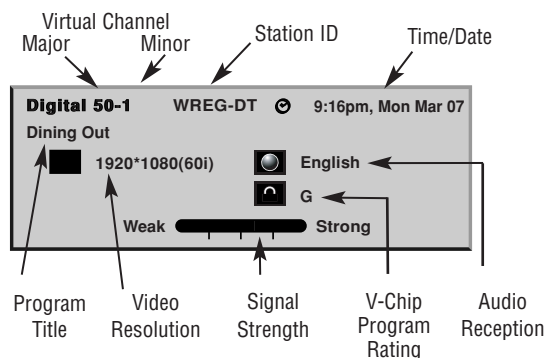
Replace both batteries at the same time. Do not use a new battery with a used battery. Risk of explosion, if battery is replaced by an incorrect type.

Do not expose the Remote Control Unit to moisture, or heat.

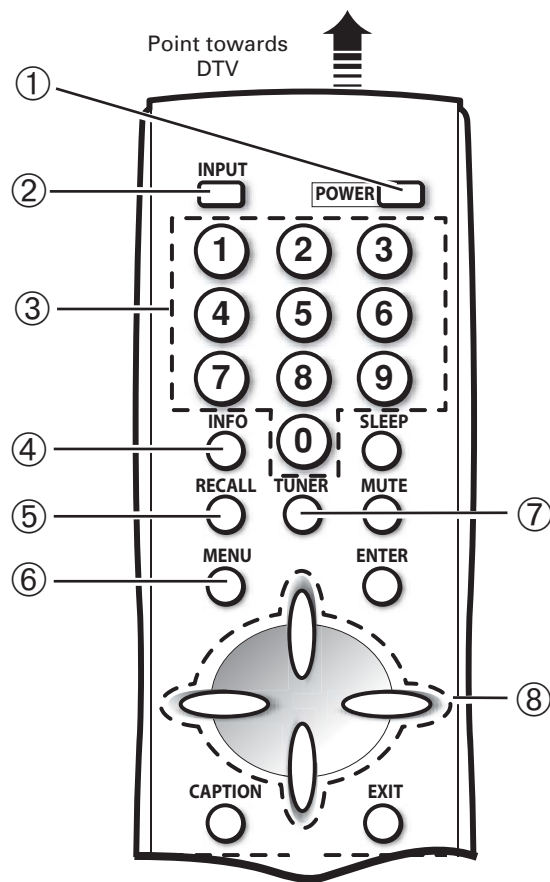
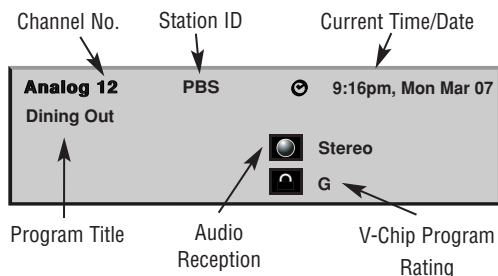
REMOTE CONTROL KEYS

- ① **Power Key**—Press to turn DTV on or off.
- ② **Input Key**—Press to change the input signal source as follows: Analog RF → Digital RF → Video1 → Video2 → Compo2 → Compo3 → Analog RF.
- ③ **Number Key**—Two keys must be pressed to select a direct channel. *Example:* Press **0** then **6** to select channel 6. For Analog Cable channels above 100, press and hold the **1** key until C1-- appears.
- ④ **Info Key**—Press to display the Digital and Analog Full Banner information (press again to remove the display):

Digital Full Banner display—Contains a two-part Channel Number (Major and Minor). If available the following is also included—Station ID, Program Title, Date/Time (if set), Antenna Signal Strength, Video Resolution, V-Chip Program Rating, and Audio Reception.



Analog Full Banner display—Contains Channel Number (analog antenna/cable), Date/Time (if set), Station ID (if available), Program Title (if available), V-Chip Program Rating, and Audio Reception.



- ⑤ **Recall Key**—Select the first channel you want to watch; then select another channel using the **NUMBER** keys. Press **RECALL** to easily switch between the channels.

*NOTE: The **RECALL** key cannot toggle between a Digital channel and an Analog channel. See **TUNER (#7)** key description.*

- ⑥ **Menu key**—Press this key to display the on-screen menu.

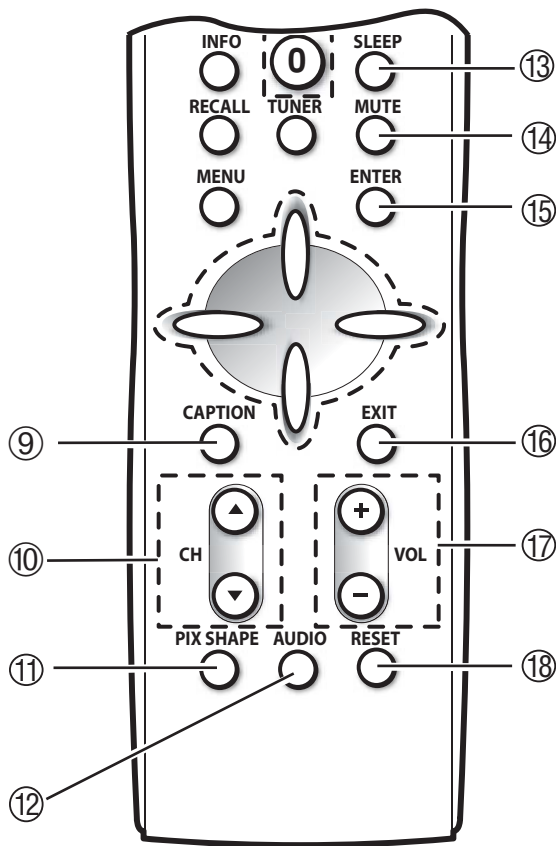
- ⑦ **Tuner Key**—Use this key to toggle from one tuning system to another, digital channels, and analog channels.

*NOTE: The **TUNER** key is inactive when an external input is selected (Video 1, Video 2, Compo 2, or Compo 3).*

- ⑧ **Cursor ▲ (up) ▼ (down) keys**—Press these keys to move the cursor up and down within the menu.
Cursor ◀ (left) ▶ (right) keys—Press these keys to move the cursor left and right within the menu.

(Continued on page 12.)

REMOTE CONTROL KEYS (Continued)



⑨ **Caption Key**—Press to select analog or digital captioning. The Analog Caption modes are: CC1, CC2, Quikcap, and OFF. The Digital Caption modes are: Digital CC1 ~ CC6, Quikcap, and OFF.

⑩ **Channel Scanning (CH ▲▼) Keys**—Press ▲ (up) ▼ (down) keys to tune to the next higher or lower channel in the Channel Scan Memory database. The scanning loop includes analog channels, digital channels, and all A/V inputs.

⑪ **Pix Shape Key**—Use this key to change the video display format. Available options depend on signal received and the broadcast's aspect ratio. They may include: Letter box, Zoom, and Normal for HT27745; Full, Zoom1/2, and Normal for HT28745.



Model HT27745
Letter Box—Black borders appear at the top and bottom of the screen.

Note: 16:9 image without distortion on a 4:3 screen.



Model HT28745
Normal—Black borders appear at the sides, of the screen.

Note: 4:3 image without distortion on a 16:9 screen.



Zoom—Enlarges image (some of the top and bottom may be clipped when using Zoom 1 or Zoom 2 modes).

⑫ **Audio Key**—Press to select the desired audio mode (if available): DIGITAL: Main, Sub1, Sub2, Sub3, etc.; ANALOG: Stereo, Mono, SAP.

⑬ **Sleep Key**—Press this key, then press the “0” key to set the Sleep Timer. The desired time can be set from 30 minutes up to 3 hours in 30 minutes increments. Sleep Timer will switch off the DTV automatically. *NOTE: The Sleep Timer cancels when the DTV is turned off or if a power failure occurs.*

⑭ **Mute Key**—Press once to minimize the volume. Press again to restore. *NOTE: This key **will not** mute sound from the audio out jacks.*

⑮ **Enter Key**—Press this key to select an option from the menu system, when required.

⑯ **Exit Key**—Press this key to exit from the menu system.

⑰ **Volume (VOL – +) Keys**—Press the – + keys to adjust volume. The screen displays a left or right red arrow that blinks as many time as you press the **Vol – +** keys.

⑱ **Reset Key**—Press twice to restore factory settings. The DTV will automatically start Channel Search and clear all customized settings.

NOTE: The Reset Function includes a channel search. Current Digital and Analog channel databases will be deleted and new ones created by the Channel Search process. To receive Digital Cable channels, see page 14 for Digital Cable Search.

These features will reset to factory defaults:

- Picture/Sound Adjustments: Color, Tint, Contrast, Brightness, Sharpness, Color Enhancer, Bass, Treble, and Surround Sound
- Channel Memory —Digital/Analog channel database will be replaced
- Initial Channel to OFF
- Analog Audio to Stereo
- Captioning to OFF
- V-Guide to OFF
- DTV Speakers to ON
- Digital Audio Output to Dolby Digital
- Scan Velocity to HIGH
- Menu Language to English
- Auto Clock / Sleep Timer (if previously set)
- Any Video mode to DTV mode

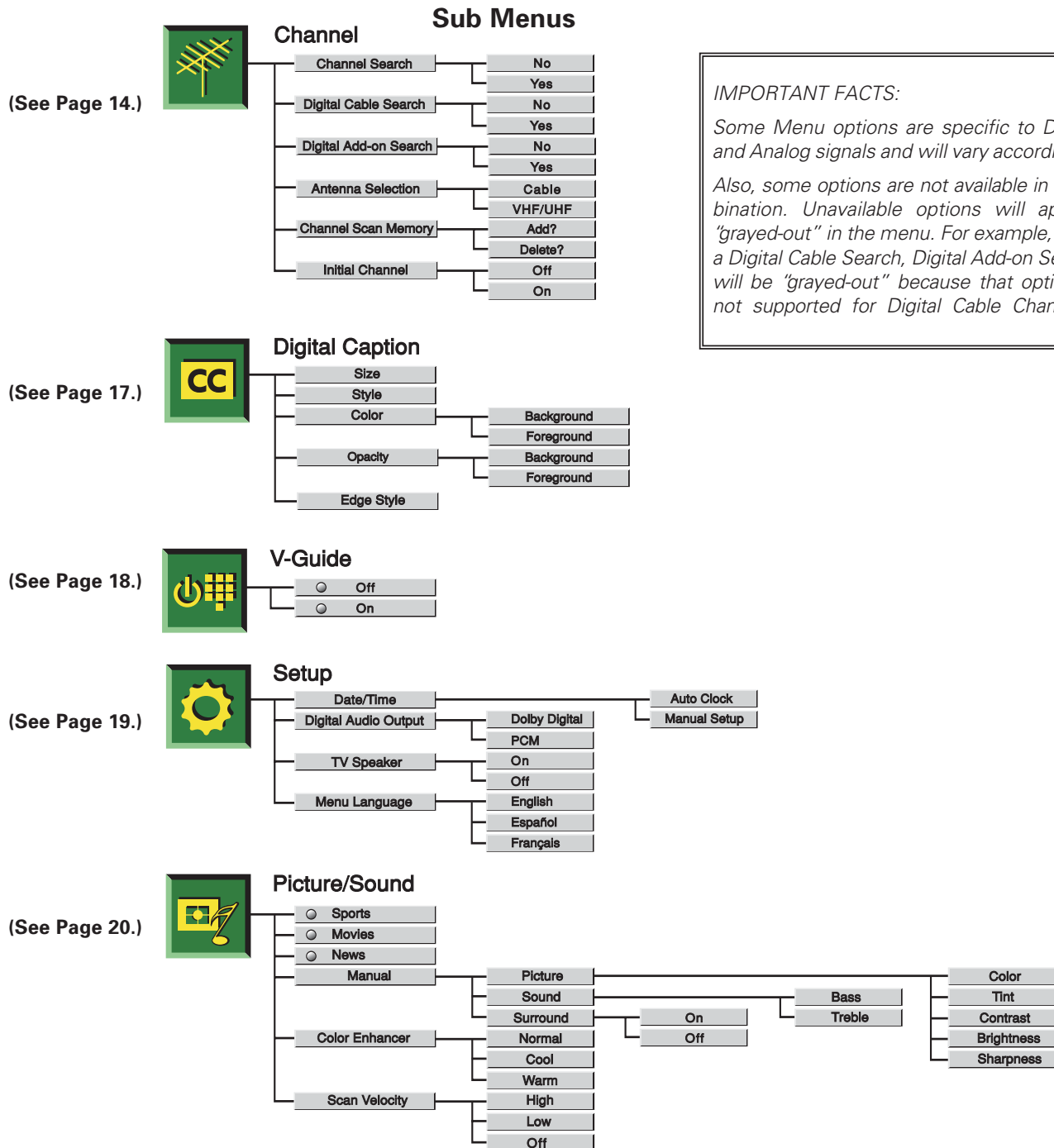
If desired, personal settings can be made again using the menu options.

HOW TO OPERATE THE ON-SCREEN MENU

The on-screen menu system provides the viewer with easy access to adjustments and settings. Just use the **MENU**, **CURSOR**, **ENTER**, and **EXIT** keys on the remote control and follow the on-screen instructions. Generally, you will use the **CURSOR** **▲▼** keys to

select a menu item and the **CURSOR** **◀▶** keys to make an adjustment. The **ENTER** key confirms a setting and moves the entry point to the next menu or field, when necessary. Press the **EXIT** key to return to normal DTV viewing.

MENU NAVIGATION MAP



IMPORTANT FACTS:

Some Menu options are specific to Digital and Analog signals and will vary accordingly.

Also, some options are not available in combination. Unavailable options will appear "grayed-out" in the menu. For example, after a Digital Cable Search, Digital Add-on Search will be "grayed-out" because that option is not supported for Digital Cable Channels.



CHANNEL SETUP OPTIONS

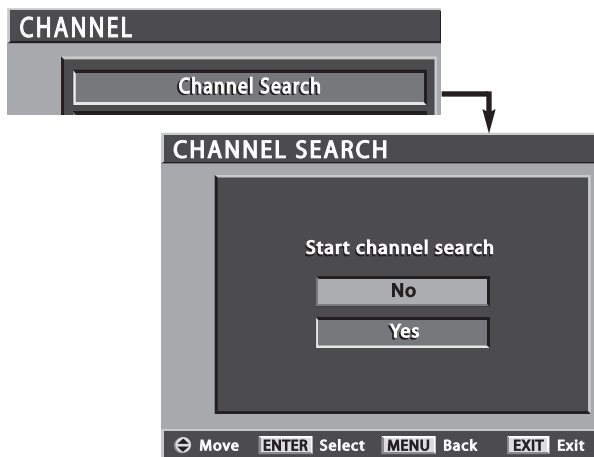
CHANNEL SEARCH

Use Channel Search to replace existing Digital and Analog Channel Scan databases, such as, if you move to another city or have cable service installed.

NOTES: During Channel Search, current Digital and Analog channel databases are deleted and new ones created. To receive Digital Cable channels, you will have to perform a Digital Cable Search.

To add new channels to existing databases, use Digital Add-on Search on page 15.

- 1** Press the **MENU** key to display the Main menu.
- 2** Use the **CURSOR ▲▼** keys to highlight the *Channel* category. Press **ENTER**.
- 3** Use the **CURSOR ▲▼** keys to highlight the *Channel Search* option. Press **ENTER**.
- 4** Use the **CURSOR ▼** key to select Yes. Press **ENTER**.

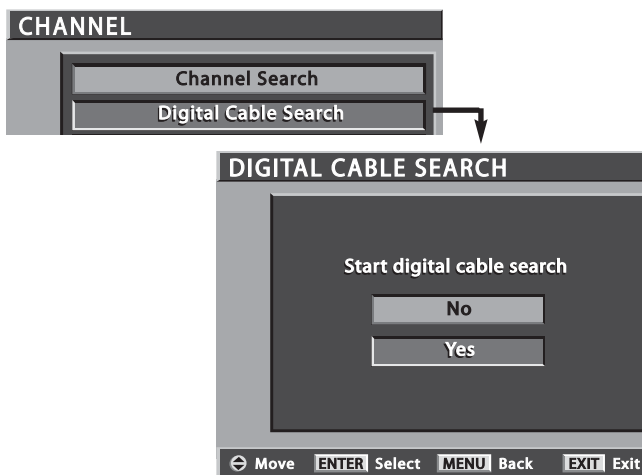


DIGITAL CABLE SEARCH (OPTIONAL)

This DTV can receive unscrambled (ClearQAM) digital cable channels, when available. However, not all cable companies provide ClearQAM digital channels.

Searching for digital cable channels will take about 10 minutes, please be patient.

- 1** Connect a Digital Cable signal directly to the DTV Digital Antenna In Terminal. 
- 2** Press the **TUNER** key to select the Digital Tuner.
- 3** Press the **MENU** key to display the Main menu.
- 4** Use the **CURSOR ▲▼** keys to highlight the *Channel* category. Press **ENTER**.
- 5** Use the **CURSOR ▲▼** keys to highlight *Digital Cable Search* option. Press **ENTER**.
- 6** Use the **CURSOR ▼** key to select Yes. Press **ENTER**.



NOTE: After Channel Search is complete, the DTV will tune to the lowest Digital Cable channel (or lowest Analog channel if no Digital Cable channel is found).

IMPORTANT FACT: This DTV maintains only one database of digital channels. Therefore, when you search for ClearQAM digital cable channels, the database of antenna digital channels will be deleted. You will only be able to receive those ClearQAM channels your cable company provides.

Cable companies rearrange virtual channels as programming changes, which may cause the program you are watching to move to another channel. This message will appear on the screen briefly to notify you of a change. You will have to re-locate the program you were watching by scanning through the channels.

To restore the antenna digital channel database, reconnect the antenna and use the menu system to perform a normal Channel Search.

Program change
from cable company

DIGITAL ADD-ON SEARCH

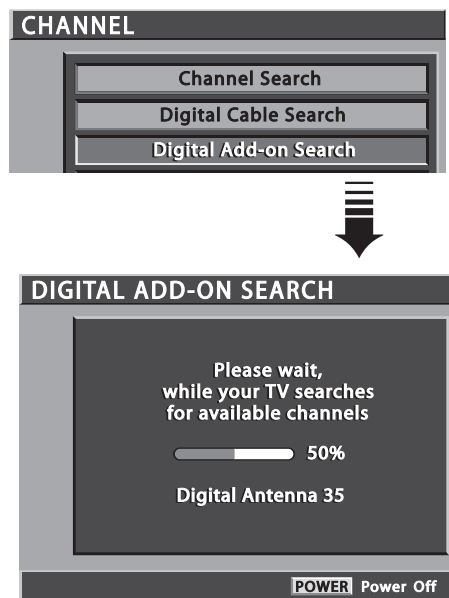
Use this feature to add new channels to the digital antenna channel database. Also, use this feature to add channels when broadcast towers are in opposite directions from your location.

Channel numbers will appear under the progress bar only when a channel is found.

- 1 Press the **TUNER** key to select the Digital Tuner.
- 2 Press **MENU** key to display the Main menu.
- 3 Use the **CURSOR ▲▼** keys to highlight the *Channel* category. Press **ENTER**.
- 4 Use the **CURSOR ▲▼** keys to highlight *Digital Add-On Search* option. Press **ENTER**.
- 5 Use the **CURSOR ▼** key to select Yes. Press **ENTER**.

NOTES: Turn your Antenna and repeat these steps for each direction in which there are transmitting towers.

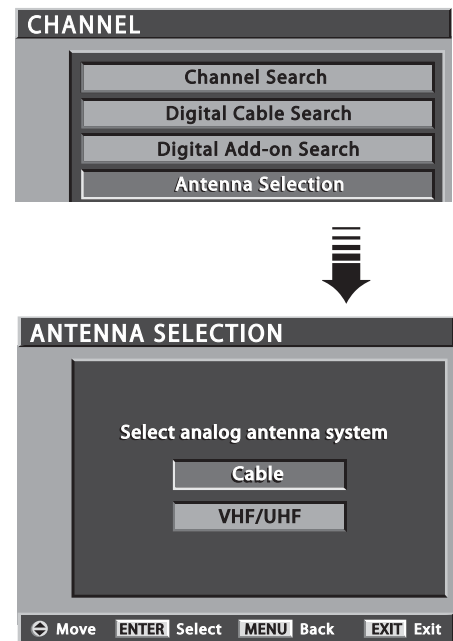
Go to www.antennaweb.org and type in your zip code to obtain specific tower vector information.



ANTENNA SELECTION (ANALOG)

Use this feature to switch between analog off-air channels and analog cable channels.

- 1 Press the **TUNER** key to select analog channels.
- 2 Press **MENU** key to display the Main menu.
- 3 Use the **CURSOR ▲▼** keys to highlight the *Channel* category. Press **ENTER**.
- 4 Use the **CURSOR ▲▼** keys to highlight the *Antenna Selection* option. Press **ENTER**.
- 5 Use the **CURSOR ▲▼** keys to choose Cable or VHF/UHF. Press **ENTER**.
- 6 Press the **EXIT** key to return to normal DTV viewing.



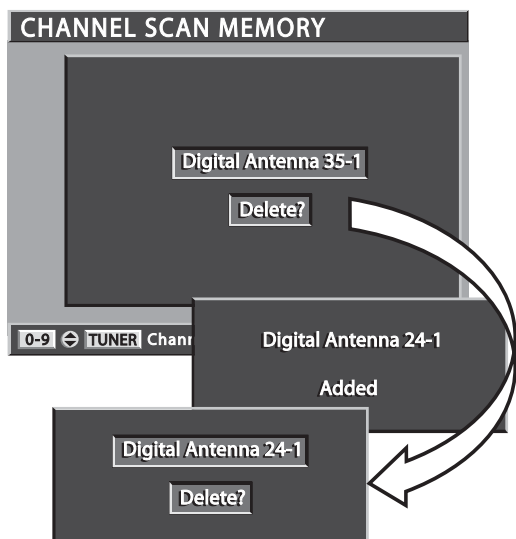


CHANNEL SETUP OPTIONS (Continued)

CHANNEL SCAN MEMORY

Channel Scan Memory is a database of active channels that you can scan through using the Channel Scan (up/down) keys. This list can be customized by deleting and/or adding channels.

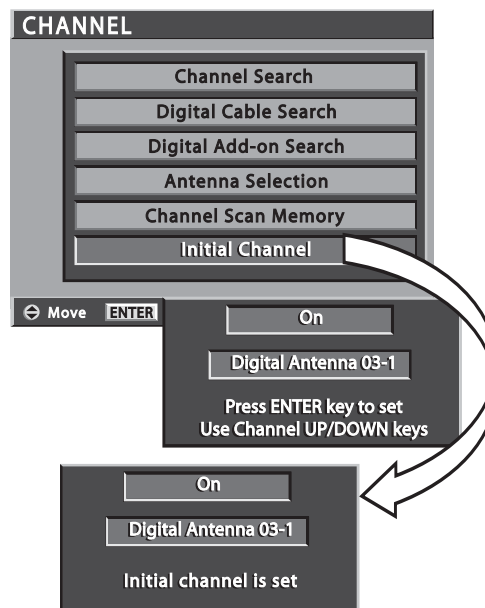
- 1** Press **MENU** key to display the Main menu.
 - 2** Use the **CURSOR ▲▼** keys to highlight the *Channel* category. Press **ENTER**.
 - 3** Use the **CURSOR ▲▼** keys to highlight *Channel Scan Memory* option. Press **ENTER**.
- "Add?" will appear below the channel number if the selected channel is not in the database. "Delete?" will appear below the channel number if the selected channel is already in the database.
- 4** Use the **CHANNEL ▲▼** keys or numerical keys to select desired channel. HINT: Press the **TUNER** key to switch between Digital and Analog Channel Scan databases.
 - 5** Press the **ENTER** key to delete or add the channel.
 - 6** When you have finished adding and/or deleting channels, press the **EXIT** key to return to normal DTV viewing.



INITIAL CHANNEL

The television can be programmed to tune to your favorite channel each time it is powered on.

- 1** Press **MENU** key to display the Main menu.
- 2** Use the **CURSOR ▲▼** keys to highlight the *Channel* category. Press **ENTER**.
- 3** Use the **CURSOR ▲▼** keys to highlight the *Initial Channel* option. Press **ENTER**.
- 4** Use the **CURSOR ▼** key to select On. Press **ENTER**.
- 5** Press the **TUNER** key to choose Digital or Analog.
- 6** Select your favorite channel using the **CHANNEL ▲▼** keys on the remote.
- 7** Press the **ENTER** key to set the initial channel.
- 8** Press the **EXIT** key to return to normal DTV viewing.



NOTE: If the TV is powered off while any video mode is selected, that video mode will be tuned when the TV is powered on again (Video 1, Video 2, Component 2, or Component 3).

Quick Tips

- When a digital channel is deleted, all of that channel's sub-channels are deleted as well.
- Only previously deleted digital channels can be added back to the database.
- If one digital sub-channel is added back to the database all of that channel's sub-channels will be added back.
- If the last remaining digital channel is deleted, the entire previous Digital Channel Scan Memory database will be restored automatically.
- If the last remaining analog channel is deleted (cable channel or off-air channel) ALL analog channels (cable or off-air) will be restored automatically, regardless of the previous Analog Channel Scan Memory database.

CC CLOSED-CAPTIONING OPTION

Captioning is hidden textual information transmitted along with the picture and sound. Turning Captioning ON causes the DTV to open these captions and superimpose them on the screen. Because different types of closed captions can be transmitted with the

picture and sound, separate captioning modes are provided. The captioning modes recognized by this model are: Analog EIA-608B and Digital EIA-708B. Local broadcasters decide which caption signals to transmit.

CHANGING THE LOOK OF DIGITAL CAPTIONS

This *Size*, *Style*, *Color*, *Opacity*, and *Edge Style* of Digital Captions can be changed.

NOTES: If Opacity is set to transparent, captions may be difficult to see.

Some menu screens include a "Sample Text" box display to instantly view your selection.

Only true EIA 708B Digital Closed-Captions are affected by all these settings.

Analog captions generally will not respond to these adjustments, however, upconverted analog captions may respond to some options.

- 1** Press the **TUNER** key to select the Digital Tuner. (NOTE: Digital Font options are available only from the Digital Main menu.)
- 2** Press the **MENU** key to display the Main menu.
- 3** Use the **CURSOR ▲▼** keys to highlight the *Digital Caption* category. Press **ENTER**.
- 4** Use the **CURSOR ▲▼** keys to highlight an option. Press **ENTER**.
- 5** Some choices have *Background* and *Foreground* options. Choose *Background* or *Foreground* when necessary, then use the **CURSOR ▲▼** or **◀▶** keys to select the desired effect.

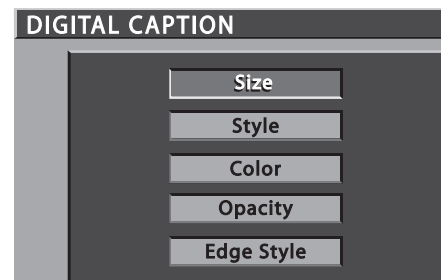
Otherwise, simply use the **CURSOR ▲▼** or **◀▶** keys to select the desired effect.
- 6** Press the **MENU** key to move back to the Digital Caption menu, then repeat Steps **4** and **5** for each option you want to change.
- 7** When you have finished making adjustments, press the **EXIT** key to return to normal DTV viewing.

TO VIEW CAPTIONS

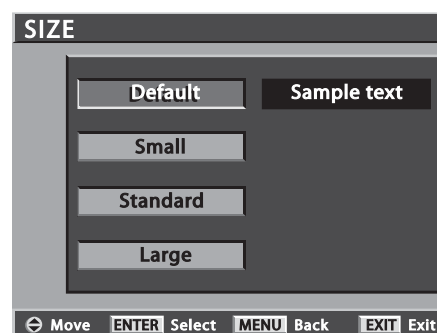
- 1** Press the **CAPTION** key to select caption modes. Digital modes are: Digital CC1 through Digital CC6, QuikCap, and Off. Analog modes are: CC1, CC2, QuikCap and Off.

QuikCap Operation

QuikCap turns captioning on and off with the *Mute* function. Press the **MUTE** key on the remote control to block the TV sound; the captions display automatically. Press the **MUTE** key again to restore the sound. Captions will disappear.



Main Menu—Digital Font



Sub Menu—Digital Font Size



Analog Caption



Digital Caption



V-GUIDE (PARENTAL CONTROL) OPTION

NOTE: THIS FEATURE IS DESIGNED TO COMPLY WITH THE UNITED STATES OF AMERICA'S FCC V-CHIP REGULATIONS. THEREFORE, IT MAY NOT FUNCTION WITH BROADCASTS THAT ORIGINATE IN OTHER COUNTRIES.

This Sanyo television is equipped with an electronic V-Chip to interpret MPAA (Motion Picture Association of America) and TV Parental Guidelines rating codes. When these codes are detected, the DTV will automatically display or block the program, depending upon choices

you make when setting up the V-Guide system. Content ratings are represented by the initials: FV (fantasy violence), D (suggestive dialog), L (adult language), S (sexual situations), and V (violence). A rating icon will generally appear at the beginning of a program, see chart on page 19.

This television can be set to block programs with content you deem as inappropriate for your children to view.

TO BLOCK MOVIE OR TV PROGRAM

- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight the *V-Guide* category. Press **ENTER**.
- 3 Use the **CURSOR ▲▼** keys to select ON. Press **ENTER**.
- 4 Use the **CURSOR ▼** to select *Adjust*. Press **ENTER**.
- 5 Press **CURSOR ▲▼** and **◀▶** keys to select Movie or TV ratings.
- 6 Press the **ENTER** key to Block selected option. A lock symbol (🔒) will appear beside the selected rating option indicating it is blocked.
- 7 When you have finished making adjustments, press the **EXIT** key to return to normal TV viewing.

TO TEMPORARILY UNBLOCK MOVIE OR TV PROGRAM

- 1 Press the **INFO** key, then within three (3) seconds press the **ENTER** key.

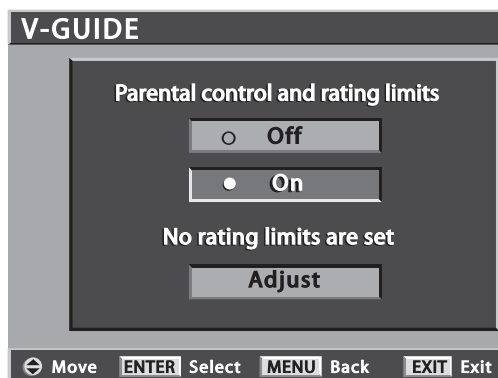
This will temporarily sets the V-Guide to OFF. The V-Guide will remain in the OFF mode until the DTV power is switched off. When power is restored, V-Guide will be ON.

Also, V-Guide can be reset to ON by using the menu system above, steps 1~3.



TO UNBLOCK MOVIE OR TV PROGRAM

- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight the *V-Guide* category. Press **ENTER**.
- 3 Highlight the "ALLOW ALL" option using the **CURSOR ▲▼, ◀▶** keys, if needed. Press **ENTER**.



V-GUIDE RATINGS—AT-A-GLANCE

MOVIE RATING		TV RATING					
RATING		Allow All		Block All			
MOVIE	TV			FV	D	L	S V
G	TV-Y						
PG	TV-Y7						
PG13	TV-G						
R	TV-PG						
NC17	TV-14						
X	TV-MA						

LOCKED SYMBOL (🔒)
 RATED GUIDELINES (Dark Gray)
 UNRATED GUIDELINES (Light Gray)

IMPORTANT FACT: The DTV will automatically block ratings above or unblock ratings below a selection. For example, if you block TV rating TV-PG, ratings TV-14 and TV-MA will be blocked automatically; or if you block Movie rating PG-13, ratings R, NC17, and X will be blocked automatically. Blocking TVY7 **does not** block higher ratings.

TV RATINGS (AGE/CONTENT-BASED)



ALL CHILDREN—Program is designed to be appropriate for children ages 2-6.



DIRECTED TO OLDER CHILDREN—Program is designed for children 7 and above. Material may include mild fantasy violence (FV) or comedic violence.



GENERAL AUDIENCE—Program suitable for all ages. Contains little or no violence, no strong language or sexual dialogue or situations.



PARENTAL GUIDANCE SUGGESTED—Program contains material that may be unsuitable for younger children. Material contains one or more for the following: moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).



PARENTS STRONGLY CAUTIONED—Some material is unsuitable for children under 14 years of age. Parents are strongly urged to use cautions against letting children that 14 watch unattended. Material contains intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).



MATURE AUDIENCE ONLY—Program is designed to be viewed by adults and therefore may be unsuitable for children under 17 years of age.

MPAA MOVIE RATINGS (AGE-BASED)

G GENERAL AUDIENCES—All ages admitted.

PG PARENTAL GUIDANCE SUGGESTED—Some material may not be suitable for children.

PG-13 PARENTAL GUIDANCE CAUTIONED—Some material may be inappropriate for children under 13.

R RESTRICTED—Under 17 requires accompanying parent or adult guardian

NC17 NO ONE 17 AND UNDER ADMITTED

Quick Tips

- The V-Guide menu display remains on screen for approximately 30 seconds. If it disappears, press the **V-GUIDE** key.
- You can block portions of a TV rating by choosing one or more of the Content ratings (D, L, S, and V). By blocking just the L and S content ratings of TV-14, *for example*, TV-14 rated programs with a D and/or V content rating could still be viewed.
- V-Guide limits on programming received via the Analog antenna input, Digital antenna input, A/V 1 input, and any 480i signals received through the component jacks are controlled by this DTV.
- V-Guide limits on digital programming received through the Component jacks are controlled by the external devices connected to those jacks (such as a DVD Player or Satellite Receiver). Refer to your external device's owner's manual for instructions on setting V-Guide limits.
- Networks and local stations may or may not include the content ratings portion of the TV Parental Guidelines.



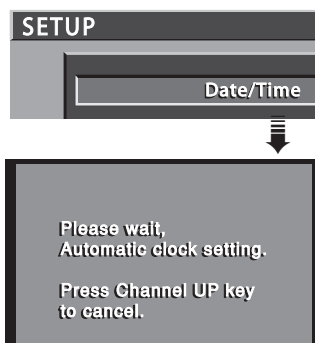
SETUP MENU OPTION

SETTING DATE/TIME

Auto Date/Time Setting

- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight the *Setup category*. Press **ENTER**.
- 3 Use the **CURSOR ▲▼** keys to highlight the *Date/Time* option. Press **ENTER**.
- 4 Use the **CURSOR ▲▼** keys to highlight *Auto Clock*. Press **ENTER**.

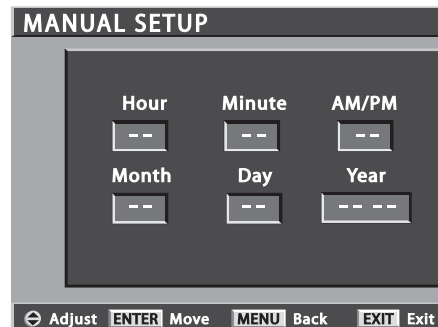
The TV will begin searching for an analog PBS channel transmitting date and time data. If a PBS station is found transmitting this data, it will be used to set the Date and Time automatically. When the process is completed (or cancelled), the last analog channel will be tuned.



NOTE: If the Date and Time are set automatically, the Date and Time will be updated each time that PBS station is tuned.

Manual Date/Time Setting

- 4 Use the **CURSOR ▲▼** keys to highlight *Manual Setup*. Press **ENTER**.
 - 5 Use the **CURSOR ▲▼** keys to select the *Hour*. Press the **ENTER** key (**CURSOR ◀▶** keys) to step to the next field. Continue until all fields are populated.
- NOTE:** The DTV will ignore all entries if the **MENU** or **EXIT** key is pressed before all fields are populated.
- 6 When you have entered data in all of the fields, press the **EXIT** key to return to normal DTV viewing.



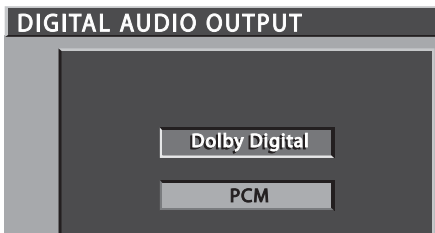
(Continued on page 20.)

SETUP MENU OPTION (Continued)

DIGITAL AUDIO OUTPUT

Use this feature to choose the format of the audio output signal: Dolby Digital or PCM.

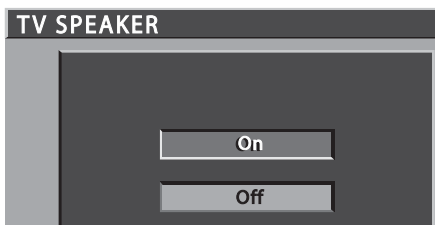
- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight the *Setup* category. Press **ENTER**.
- 3 Use the **CURSOR ▲▼** keys to highlight the *Digital Audio* option. Press **ENTER**.
- 4 Use the **CURSOR ▲▼** keys to select Dolby Digital or PCM.
- 5 Press the **EXIT** key to return to normal DTV viewing.



NOTE: The Digital Audio Output option is available only when you are watching a Digital channel received via the Digital antenna input. If you are watching a signal from any Analog input (Analog tuner or Analog A/V inputs), the Digital Audio Output option will be "grayed-out" (unavailable).

TV SPEAKER

- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight the *Setup* category. Press **ENTER**.
- 3 Use the **CURSOR ▲▼** keys to highlight *TV Speaker* option. Press **ENTER**.
- 4 Use the **CURSOR ▲▼** keys to select ON.
- 5 Press the **EXIT** key to return to normal DTV viewing.



NOTE: Sound will not be produced through your DTV speakers when the OFF mode is selected.

MENU LANGUAGE

- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight the *Setup* category. Press **ENTER**.
- 3 Use the **CURSOR ▲▼** keys to highlight *Menu Language* option. Press **ENTER**.
- 4 Use the **CURSOR ▲▼** keys to select *English*, *Español*, or *Français*.
- 5 Press the **EXIT** key to return to normal DTV viewing.



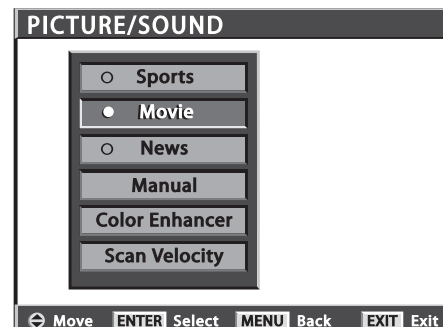
PICTURE/SOUND ADJUSTMENT OPTIONS

PRESET PICTURE AND SOUND OPTIONS

Select *Sports*, *Movie*, or *News* to match the program you are watching. The DTV will adjust the picture and sound accordingly.

A yellow bullet will display beside the selected option.

- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight the *Picture / Sound* category. Press **ENTER**.
- 3 Use the **CURSOR ▲▼** keys to choose either *Movie*, *Sports*, or *News*.
- 4 Press the **EXIT** key to return to normal DTV viewing.



MANUAL PICTURE/SOUND ADJUSTMENT

The available manual options are:

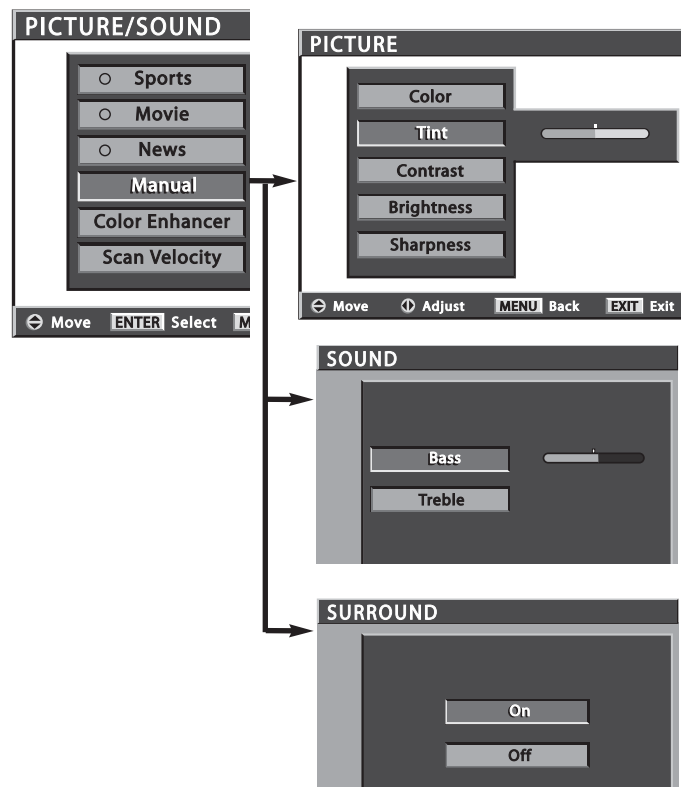
Picture: Choose this option to adjust the Color, Tint, Contrast, Brightness, and Sharpness.

Sound: Choose this option to adjust the Bass and Treble.

Surround: Choose either On or Off.

Note: Surround sound is not available on digital channels.

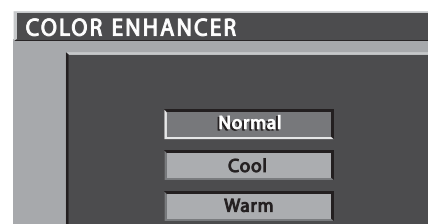
- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight the *Picture/Sound* category. Press **ENTER**.
- 3 Use the **CURSOR ▲▼** keys to highlight the *Manual* option. Press **ENTER**.
- 4 Use the **CURSOR ▲▼** keys to select *Picture*, *Sound*, or *Surround*. Press **ENTER**.
- 5 Use the **CURSOR ▲▼** keys to select the option you want to adjust.
- 6 Then use the **CURSOR ◀▶** keys to make an adjustment (or to set On/Off).
- 7 Press the **MENU** key to move back to the *Picture/Sound* menu, if necessary.
- 8 Repeat Steps 4 through 7, as necessary.
- 9 When you have finished making adjustments, press the **EXIT** key to return to normal DTV viewing.



COLOR ENHANCER

Selecting **WARM** will deepen the picture red tints and **COOL** will highlight the picture blue tints.

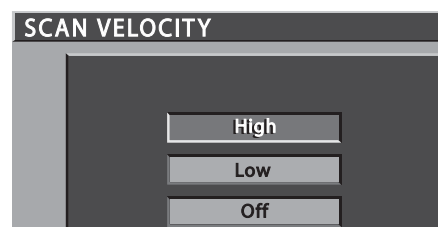
- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight the *Picture/Sound* category. Press **ENTER**.
- 3 Use the **CURSOR ▲▼** keys to highlight *Color Enhancer* option. Press **ENTER**.
- 4 Use the **CURSOR ▲▼** keys to select setting.
- 5 When you have finished making adjustments, press the **EXIT** key to return to normal DTV viewing.



SCAN VELOCITY

This television has an electronic circuit that regulates the scan speed of the electron beam creating sharp transitions between the light and dark portions of the picture. The results are crisp edges and sharply-defined clarity. Select **LOW** or **HIGH** option to change settings.

- 1 Press the **MENU** key to display the Main menu.
- 2 Use the **CURSOR ▲▼** keys to highlight the *Picture/Sound* category. Press **ENTER**.
- 3 Use the **CURSOR ▲▼** keys to highlight the *Scan Velocity* option. Press **ENTER**.
- 4 Use the **CURSOR ▲▼** keys to select High, Low, or Off.
- 5 When you have finished making adjustments, press the **EXIT** key to return to normal DTV viewing.



HELPFUL HINTS (Problems/Solutions)

Because of the Quality we build into our product, very few problems are actual DTV defects. Most problems only involve simple hookup or setup changes that can be solved by the customer. Please check the chart

below and try the solutions listed for your problem. If the problem still persists, **before returning your DTV**, please visit our website at **www.sanyoctv.com** or call us **toll free at 1.800.877.5032. We can Help!**

Problem	Check these Conditions	Try these Solutions	Page No.
DTV turns off automatically.	• Check signal (Cable/Ant.) connection. • Power surge protection feature.	• Press POWER key. • The sleep timer may have been set. • Unplug DTV momentarily.	5, 11
No picture, sound (Digital Picture).	• Check antenna/external connections. • May be station trouble, NO signal broadcast. • MUTE function may be on.	• Adjust antenna. • Try a different channel. • Press RESET key to restart channel search. • Adjust Volume.	5, 12
No Captioning.	• Check if station is broadcasting a Closed-Caption signal. Select another channel.	• Press CAPTION key to select Captioning.	17
Cannot customize Caption.	• Digital Caption signal not broadcast.	• Press CAPTION key to select Analog captioning.	17
Cannot display picture on a full screen.	• Letter Box 16:9 or Pillar Box 4:3 signal broadcasted.	• Press PIX SHAPE key to expand or zoom the image.	12
Pixilation of Digital image.	• Press INFO key and check the signal strength.	• Turn antenna, install signal booster. • Install outdoor Digital antenna.	5, 11
Poor Picture/ Sound (watching Analog).	• Check if program is in color. • Check antenna/external connections. • Color or Tint misadjusted. • May be station trouble. • MUTE function may be on.	• Try a different channel. • Adjust antenna. • Press RESET key to restart channel search. • Adjust Volume.	20 ~ 21
"No Signal" message appears on the screen.	• Check Audio/Video connections. • Check external equipment connections. • Check external equipment setting.	• Press INPUT key. • Switch on external equipment. • Set external equipment output connections to match input connections.	9 ~ 10
No DTV Stereo or SAP sound.	• Check if station is broadcasting a true MTS stereo signal or a SAP signal.	• Press AUDIO key.	12
Cannot select or scan some channels.	• Channel may be removed from memory. • Check antenna connections. • No digital signal being broadcast. • Signals are weak. • V-Guide is set to block programming.	• Select CH. Scan Memory and manually add channels or start CH. (channel) search. • Turn Antenna or install signal booster. • Set V-Guide to ALLOW ALL or press RESET key to clear all settings and restart channel search.	16 18 ~ 19
No Cable channels above number 13.	• Cable Channel Indicator C should appear next to channel number.	• Switch Antenna mode to Cable.	15
Remote Control will not work DTV.	• Check batteries. • Check if DTV is plugged in.	• Replace batteries. • Aim remote control at front of DTV.	6, 11
Cabinet makes popping sound.	• This is a normal condition during warm-up and cool down of the plastic cabinet parts.		

MEXICO GUARANTEE

IMPORTADOR:

**COMERCIALIZADORA MEXICO
AMERICANA, S.DE R.L. DE C.V.
AV. NEXTENGO N° 78
COL. SANTA CRUZ ACAYUCAN
DEL. AZCAPOTZALCO, MÉXICO, C.P. 02770
RFC: CMA9109119L0**

DESCRIPTION: Television

BRAND: SANYO

MODELS: HT27745
HT28745

GUARANTEE

THE APPARATUS THAT YOU HAVE ACQUIRED HAS A ONE YEAR GUARANTEE FOR MANUFACTURING DEFECTS AND A ONE YEAR SERVICE WARRANTY FROM THE DATE OF PURCHASE GRANTED BY:

COMERCIALIZADORA MEXICO-AMERICANA, S. DE R.L. DE C.V.

UNDER THE FOLLOWING CONDITIONS:

1. TO MAKE THE GUARANTEE EFFECTIVE, SIMPLY SHOW THIS POLICY FILLED OUT BY THE STORE OR SUPPLIER UNIT OR THIS SALES INVOICE, WITH THE APPARATUS IN ANY OF THE SERVICE CENTERS INDICATED ON THIS GUARANTEE.
2. IF THE FAULT IS ATTRIBUTED TO A MANUFACTURING DEFECT, THE APPARATUS WILL BE REPLACED OR YOUR MONEY REFUNDED. DURING THE 30 DAYS SUBSEQUENT TO THE PURCHASE THE GUARANTEE WILL BE VALID AT THE STORE WHERE THE APPARATUS WAS PURCHASED, PRESENTING THE ABOVE DOCUMENTS.
3. REPAIR TIME WILL NEVER BE MORE THAN 30 DAYS. IF THIS TIME HAS ELAPSED, AND THE PRODUCT ISN'T REPAIRED, COMERCIALIZADORA MEXICO AMERICANA, S. DE R.L. DE C.V. WILL PROCEED TO EFFECTUATE THE EXCHANGE FOR AN EQUIVALENT APPARATUS OR THE RETURN OF THE BUYING-SALE COST RESPECTIVELY.
4. THIS GUARANTEE WILL COVER ITS TOTALITY OF PIECES, COMPONENTS AND SERVICE REPAIR OF PRODUCT, AND THE RESPECTIVE COST OF TRANSPORTATION.

THIS GUARANTEE WILL BE NULL AND VOID IN THE FOLLOWING CIRCUMSTANCES:

- * WHEN PRODUCT HAS BEEN USED IN A DIFFERENT CONDITION THAN ITS NORMAL USE.
- * WHEN PRODUCT HASN'T BEEN OPERATING CORRECTLY ACCORDING TO THE INSTRUCTIONS IN THIS MANUAL.
- * WHEN PRODUCT HAS BEEN CHANGED OR REPAIRED BY PERSONS NOT AUTHORIZED FROM THE MANUFACTURER, IMPORTER, OR MERCHANT RESPONSIBLE RESPECTIVE.

CENTRO DE SERVICIO Y LUGAR DONDE OBTENER PARTES, COMPONENTES, CONSUMIBLES Y ACCESORIOS:

SUCURSAL VALLEJO
Poniente 126 N° 288 B
Col. Nueva Vallejo
México, D.F.
Tels. 5567-5378
5368-0105, 8589-8033

SUCURSAL MINERVA
Silos N° 135, Col. Minerva
Deleg. Iztapalapa
México, D.F. 09810
Tels. 5646-4551
5646-4550

**STAMP, DATE AND SIGNATURE
OF
STORE**

DESCRIPTION: _____ **BRAND:** _____ **MODEL:** _____

CLIENT'S NAME: _____

ADDRESS: _____

EXTERIOR NUMBER: _____ **INTERIOR NUMBER:** _____

SUB DIVISION: _____ **STATE/DELEGATION:** _____

TELEPHONE: _____

UNITED STATES AND CANADA WARRANTY

ONE-YEAR LIMITED WARRANTY

THIS LIMITED WARRANTY IS VALID ONLY ON SANYO TELEVISIONS PURCHASED AND USED IN THE UNITED STATES OF AMERICA, CANADA, AND PUERTO RICO, EXCLUDING THE UNITED STATES' OTHER TERRITORIES AND PROTECTORATES. THIS LIMITED WARRANTY APPLIES ONLY TO THE ORIGINAL PURCHASER, AND DOES NOT APPLY TO PRODUCTS USED FOR INDUSTRIAL OR COMMERCIAL PURPOSES.

FOR ONE YEAR from the date of purchase, Sanyo Manufacturing Corporation will replace any defective TV.

To insure proper warranty exchange, keep the original sales receipt for evidence of purchase. Return the defective TV to the retailer along with the receipt and the included accessories, such as the remote control. The defective TV will be exchanged for the same model, or a replacement model of equal value, if necessary. Replacement model will be contingent on availability and at the sole discretion of Sanyo Manufacturing Corporation.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

OBLIGATIONS

For one year from the date of purchase, Sanyo Manufacturing Corporation warrants this product to be free from defects in material and workmanship under normal use and conditions. Should replacement be necessary under this warranty for any reason due to manufacturing defect or malfunction during the first year from date of original purchase, Sanyo Manufacturing Corporation will provide a new TV via exchange at the retailer.

For customer assistance, whether during or out of the warranty period, call toll free 1-800-877-5032.

Weekdays 7:30 AM – 7:00 PM Central Time

Saturday 7:30 AM – 4:00 PM Central Time

This warranty expresses specific contractual rights; retail purchasers may have additional statutory rights which vary from state to state.

(EFFECTIVE: August 1, 2002)

For your protection in the event of theft or loss of this product, please fill in the information requested below and **KEEP IN A SAFE PLACE FOR YOUR OWN PERSONAL RECORDS.**

Model No. _____ Date of Purchase _____

Serial No. _____ Purchase Price _____

(Located on back of unit)

Where Purchased _____



Sanyo Manufacturing Corp.
3333 Sanyo Road, Forrest City, AR 72335

CARE AND CLEANING

CLEANING THE CABINET

The surface of the cabinet can be damaged if not properly maintained. Many common household aerosol sprays, cleaning agents, solvents, and polishes will cause permanent damage to the fine surface.

1. Unplug the power cord before cleaning the television.

2. Clean the cabinet with a soft dry cloth.

Note: Never spray liquids on the screen because they can run down and drip onto the chassis. This may cause component failure not covered under Warranty.

