

**APEX**<sup>®</sup>  
DIGITAL

*simply remarkable™*

# Digital TV Converter Box

WITH *Analog*  
**Pass-Through**

**Caja Convertidora  
de TV Digital**

CON CAPACIDAD DE PASAR LA SENAL ANALOGICA



## DT250

**User's Manual** Manual del usuario



## Important Safety Information

**WARNING:** To prevent fire or shock hazard, don't expose to rain or moisture.



### CAUTION

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**



These markings are located on the bottom, side or back of the unit.

**CAUTION:** To prevent the risk of electric shock, do not remove back cover. There are no user serviceable parts inside. Please refer servicing to qualified service personnel.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and service maintenance instructions in the manual accompanying this product.

**WARNING:** “Normal ventilation of the product should not be impeded during its intended use.”

**Digital Television Transition Notice:** This device contains a digital television tuner, so it should receive digital over the air TV programming, with a suitable antenna, after the end of full-power analog TV broadcasting in the United States on February 17, 2009. After February 17, 2009, a television receiver with only an analog broadcast tuner will require a converter box to receive full power over-the-air broadcasts with an antenna because of the Nation’s transition to digital broadcasting. Analog-only TVs should continue to work as before to receive low power, Class A or translator television stations and with cable and satellite TV services, gaming consoles, VCRs, DVD players, and similar products. When a converter box is used with an older television receiver, a signal splitter might be necessary to continue to receive low-power analog broadcasts via an antenna. Information about the DTV transition is available from [www.DTV.gov](http://www.DTV.gov) or 1-888-CALL-FCC, and from [www.dtv2009.gov](http://www.dtv2009.gov) or 1-888-DTV-2009 for information about subsidized coupons for digital-to-analog converter boxes.



## Important Safety Instructions

1. **READ INSTRUCTIONS** - Read, retain and follow all of the safety and operating instructions before using this product.
2. **WATER AND MOISTURE** - The product should not be used near bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
3. **VENTILATION** - Locate the product where it will be properly ventilated. Don't place on a bed, sofa, rug or similar surface that may block the ventilation openings; or place in a bookcase or cabinet that may impede the flow of air through the ventilation openings. Place away from heat sources such as heat registers, stoves or other AV component equipment that produce excessive heat.
4. **GROUNDING AND POLARIZATION** - Take precautions to ensure that the grounding or polarization means of the product are not defeated.
5. **POWER CORD PROTECTION** - Power cord should be routed so that its not likely to be walked on or pinched by items placed upon or against them. Pay attention to cords at plugs, convenience receptacles and at the point where they exit from the product.
6. **CLEANING** - Clean product with warm water and a soft cloth only.
7. **POWER LINES** - Outdoor antenna must be located away from power lines.
8. **NONUSE PERIOD** - The power cord should be unplugged from the outlet when it is to be left unused for an extended period of time.
9. **OBJECT and LIQUID ENTRY** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
10. **CARTS AND STANDS** - The product should be used only with a level table, cart or stand.

PORTABLE CART  
WARNING



83125



## Important Safety Instructions

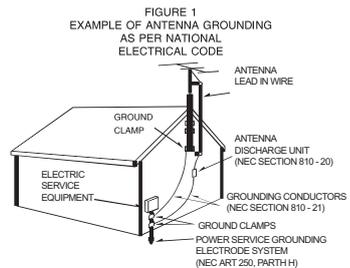
11. **DAMAGE REQUIRING SERVICE** - the product should be serviced by qualified personnel when:

- A. The power supply cord or plug has been damaged.
- B. Objects have fallen into, or liquid has been spilled into the product enclosure.
- C. The product has been exposed to rain.
- D. The product has been dropped or the enclosure is damaged.
- E. The product does not appear to operate normally or it exhibits a marked change in performance.

12. **SERVICING** - The user should not attempt to service the product beyond that described in the user's operating manual. All other servicing should be referred to qualified service personnel.

13. **OUTDOOR ANTENNA GROUNDING** - If an outside antenna is connected to the receiver, be sure that the antenna system is grounded so as to provide protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANS/NFPA No. 70- 1984 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-1.





## Introduction

**Thank You** for purchasing the DT250 digital TV converter box. It has been designed to bring you many years of viewing enjoyment from digital TV broadcasts when connected to a television that does not incorporate a digital tuner. Enjoy crystal clear quality that is free of ghosting and snowy interference.

### Special Note:

Digital TV broadcasts require an adequate signal strength from your antenna to provide the best possible viewing experience. Should a TV broadcast be disrupted by choppy reception or picture stutter, readjust your antenna or consider a high quality rooftop antenna for best results.

\*Antennaweb.org provides personalized information for choosing antenna type and orientation for your particular location.

## What's In The Box?

The DT250 digital TV converter box includes the following:

- Remote Control
- 2 AAA Batteries
- AV Cables
- RF Cable
- Owner's Manual

## Specifications

Unit Dimensions:	9" x 6.1" x 1.6"
Net Weight:	2 lbs.
Aspect Ratio:	16:9 / 4:3
Tuner Type/ Range:	ATSC/ RF CH 2-69
Resolution:	Down converts to 480i
Video Outputs:	Composite (1); S Video (1), RF Out with Audio
Video Inputs:	RF (1); Smart Antenna (optional)
Audio Outputs:	L/R Audio
Energy Standards:	<1 Watt While in Sleep Mode

# Table of Contents



## **G**etting Started



Important Safety Information .....	1
Important Safety Instructions .....	2-3
Introduction / What's In The Box? / Specifications .....	4
Table of Contents .....	5

## **I**nitial Setup Before Use



Remote Control Battery Installation.....	6
Remote Control Functions.....	7
Front / Rear Panel Overview.....	8
Analog Pass-Through Quick Setup.....	9
Connection to TV.....	10
Connection to Stereo.....	11
Quick Start Guide.....	12

## **V**iewing TV Broadcasts



Remote Control Overview	
To Mute Sound / Number Buttons / CCD / Menu / Exit.....	13
Remote Control Overview	
Arrow Buttons / Channel / Volume / Recall / Display / Guide .....	14
Remote Control Overview	
Favorite Channels / Signal / Add & Delete Favorite Channels / MTS...15	
Zoom Functions .....	16
Main Menu	
Auto Program / Auto Scan of Digital Channels / Manual Channel	
Set / Set Password Code.....	17
Main Menu	
Parental Controls / Closed Caption / Language / Sleep Timer.....	18
Main Menu	
Smart Antenna/ Time Zone/ TV Aspect Ratio/ Reset Default Settings.....	19
Display Menus	
Guide/ Signal/ Volume .....	20

## **G**eneral Information



Troubleshooting Guide.....	21
Index.....	22
Limited Warranty.....	23



# Remote Control Battery Installation

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## Remote Control Battery Installation

- 1 Remove the battery compartment cover.
  - 2 Load two fresh “AAA” batteries into the battery compartment. Make sure the batteries are inserted properly, matching polarity by referring to the symbols “+ -” marked in the battery compartment.
  - 3 Close the battery compartment cover.
- When replacing batteries, replace both of them. Do not mix new and used batteries together as battery life will be shortened.



## Remote Control Operation Range

Point the remote control unit no more than 20 feet from the remote sensor and within 30° from the front of the unit.

- The operating distance may vary depending on the brightness in the room.

Note:

- Do not point bright lights towards the remote control signal sensor.
- Do not place objects between the remote control unit and the remote signal sensor.
- Do not use the remote control unit while operating other units at the same time.

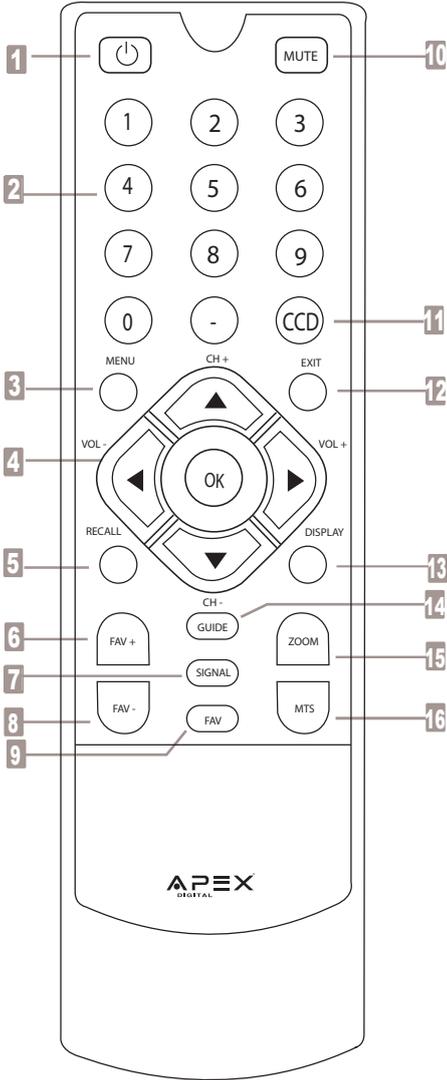
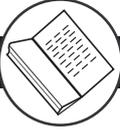


Remote Sensor

30°



# Remote Control Functions



- 1 Power button**  
(PG. 13)
- 2 Number buttons**  
(PG. 13)
- 3 Menu button**  
(PG. 13)
- 4 ▲ ▼ ◀ ▶ /OK/Vol/Ch**  
(PGS. 14, 17-20)
- 5 Recall button**  
(PG. 14)
- 6 Favorite Channel (up)**  
(PG. 15)
- 7 Signal Strength**  
(PGS. 15, 20)
- 8 Favorite Channel (down)**  
(PG. 15)
- 9 Add/Delete Favorites CH**  
(PG. 15)
- 10 Mute button**  
(PG. 13)
- 11 Closed Caption button**  
(PGS. 13, 18)
- 12 Exit button**  
(PG. 13)
- 13 Display button**  
(PGS. 14, 19)
- 14 Guide button**  
(PGS. 14, 20)
- 15 Zoom button**  
(PG. 16)
- 16 MTS button**  
(PG. 15)



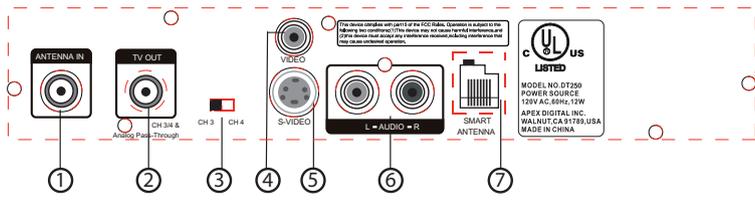
# Front & Rear Panel Overview

## DT250 (front view)



- ① Power ON / Standby  
(Green light - On)  
(Red light - Standy)
- ② Remote control sensor

## DT250 (rear view)



- ① Antenna IN (RF Input)
- ② TV out (RF Output)  
Channel 3/4 (Analog Pass-through)
- ③ Channel 3/4 Switch
- ④ Composite Video Output
- ⑤ S-Video Output
- ⑥ Audio (L/R) Output
- ⑦ Smart Antenna Connector  
(Optional)



The DT250 is equipped with a shared analog pass-through and it provides a way for you to receive analog broadcast without using a splitter. The TV Out (RF Out) serves both as the Channel 3/4 output and as the analog pass-through output. The output from this connector depends on if the unit is On (active) or it is in Standby(sleep) mode.

This table illustrates the different output from the RF Out connector.

	Power Indicator Light	TV Out Mode (RF Out)	Actual Output
Standby (Sleep)	Red	Analog Pass-through	RF signal with analog programming from analog broadcast stations
On (Active)	Green	NTSC CH 3/4	Analog RF signal in channel 3 or 4 converted from digital programming contents broadcasted by digital stations

### Standard Install - RF Input / Output

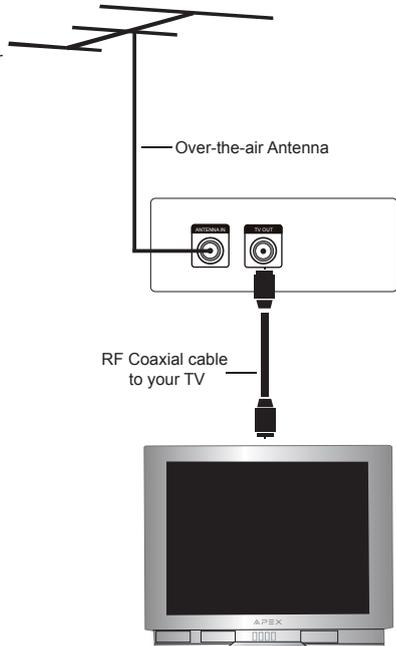
Connect antenna wire to RF ANTENNA IN on the rear of the DT250. Connect the supplied coaxial cable wire from the CH 3/4 terminal (RF Out) to RF ANTENNA INPUT on the rear of your TV.

To view, tune Ch 3 or 4 on your TV, choose the channel that does not have an active or strong signal. Slide the CH 3/4 switch located on the rear of the DT250.



### Please follow the procedure below when using Analog Pass-Through

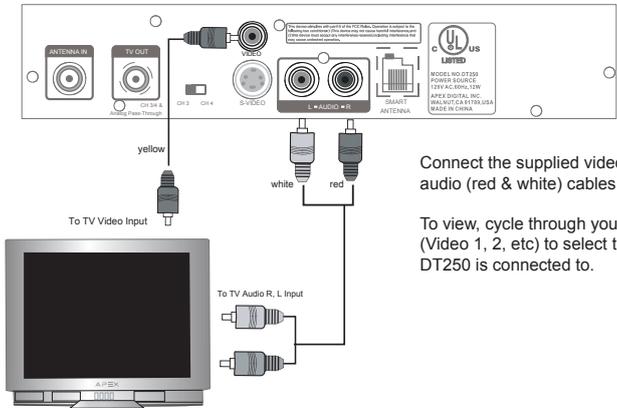
1. Make sure the converter box is in Standby mode – the power indicator light should be red; otherwise, press the Power button on the converter's remote control.
2. This step only need to perform once after connection and it is only require if you did not scan the local channel before – scan analog channels by following the instruction of your TV. It is the same as connecting your TV directly with an antenna.
3. You must use the remote control from your TV to change channels.





# Connection to TV

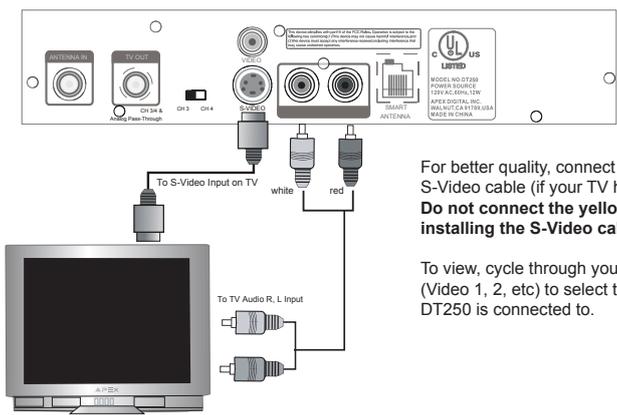
## Composite (using supplied AV cables)



Connect the supplied video (yellow) and audio (red & white) cables.

To view, cycle through your television inputs (Video 1, 2, etc) to select the source that the DT250 is connected to.

## S Video (using supplied audio cables)



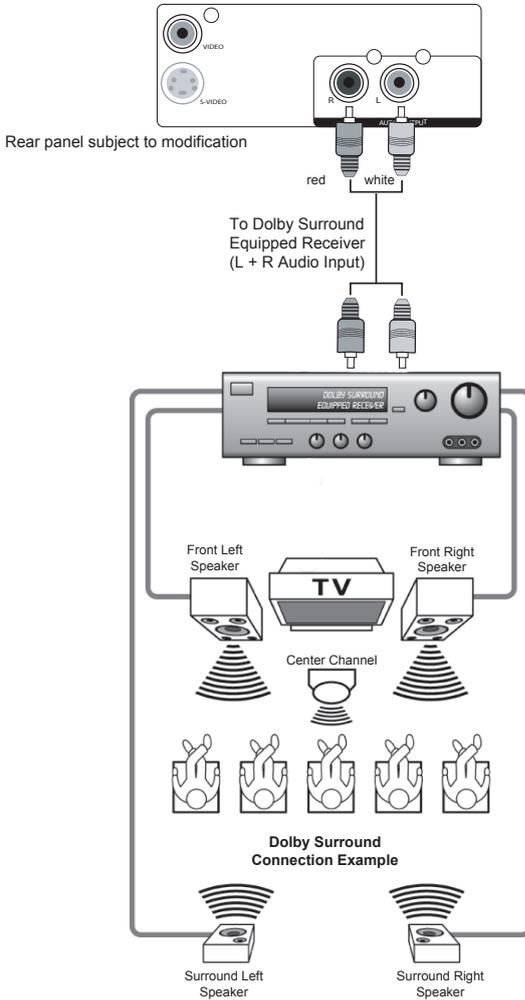
For better quality, connect with an optional S-Video cable (if your TV has this input). **Do not connect the yellow video cable when installing the S-Video cable.**

To view, cycle through your television inputs (Video 1, 2, etc) to select the source that the DT250 is connected to.



# Connection to Stereo

You may connect the unit to your stereo system using the following method:



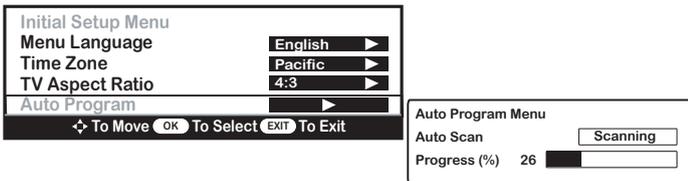


## Quick Start Guide

Once all connections are made, follow this quick guide to start viewing digital channels immediately. It is recommended that you read the entire manual to familiarize yourself with all of the functions available to you.

### Initial Setup Menu

When the converter box is used the first time, an Initial Setup Menu will display.



### Menu

Select the preferred language when viewing on screen menus. Use the ◀▶ arrow buttons to select English > Spanish > French.

### Time Zone

Set the time zone where you reside. Using the ▼ highlight Time Zone, then press ◀▶ to select Pacific > Alaska > Hawaii > Eastern > Central > Mountain

### TV Aspect Ratio

Set the aspect ratio (or shape) of your television display. Using the ▼ arrow button, highlight TV Aspect Ratio, then press ◀▶ to select 4:3 (conventional TV Shape) or 16:9 (newer widescreen TV shape).

### Auto Scan Channels

When using the converter box for the first time you'll need to scan for all available digital channels broadcasting in your local area. Using the ▼ arrow, highlight Auto Program. Press OK to confirm.

Note: Auto Program search for digital channels in your local area may take several minutes to complete.



# Remote Control Overview

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The following overview will detail the functions available when using the remote control.

Press **⏻** button to turn the converter box ON or OFF. When powered on, a green LED will illuminate on the front panel.

## To Mute Sound

- 1 To momentarily cut off sound to the speakers, press the MUTE button.
- 2 To restore sound, press once again.

## Number Buttons

- 1 Press to directly access a desired television channel.
- 2 For example: to access channel 4-2, press 4 > "-" > 2.

## CCD

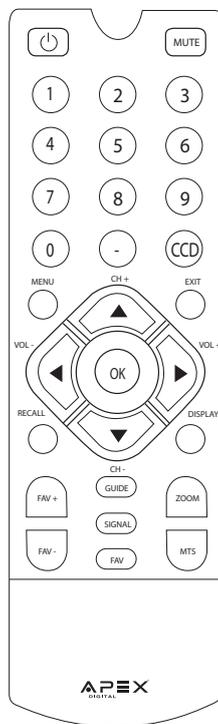
- 1 Press to display Closed Caption text (Determined by Broadcaster): OFF > CC1 > CC2 > CC3 > CC4 or OFF > CS1 > CS2 > CS3 > CS4 > CS5 > CS6. See page 18 for more CCD details.

## Menu

- 1 Press to gain access to the main menu where you may set up your personal preferences for the converter box.
- 2 Press **▲▼** to highlight a subcategory. See pages 17-19 for details.

## Exit

- 1 Press to exit the menu display. The menu will automatically disappear after 30 seconds if there is no adjustment activity.





# Remote Control Overview

## Arrow Buttons / OK ◀ ▶ ▲ ▼

- 1 Press OK / arrow buttons to navigate through guides and favorite channels or to highlight submenu options.
- 2 Press OK to confirm your selection.

## Channel + -

- 1 Press Channel + to scan up to the next channel.
- 2 Press Channel - to scan down to the next channel.

## Volume + -

- 1 Press Vol + to gradually increase volume.
- 2 Press Vol - to gradually decrease volume.

Note: Make sure your television volume is sufficient. For best results, adjust set top box volume to the maximum (100) level. See page 20.

## Recall

- 1 Press to return to the previously viewed channel.

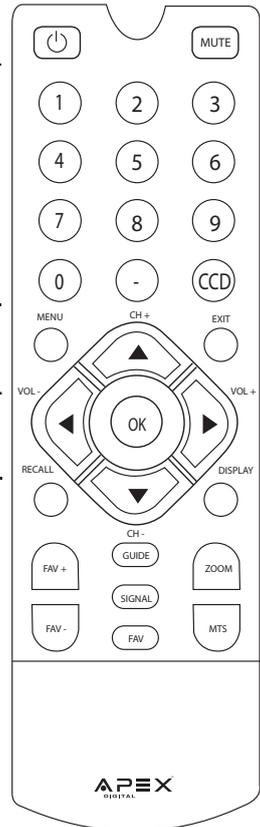
## Display

- 1 Press to view information about the currently viewed program.

## Guide

- 1 Press to display an on screen guide of program information that is available up to 3 days in advance (Determined by Broadcaster). See page 20.

Note: If CCD is activated, the on screen closed caption text will disappear as long as the guide is displayed.



# Remote Control Overview



## *Fav + / Fav - (Favorite Channels)*

- 1 Press Favorite + to scan upward and view channels you've added into your Favorite's List.
- 2 Press Favorite - to scan downward and view channels you've added into your Favorite's List.

## *Signal*

- 1 Press to view the signal meter that indicates the strength of the transmission originating from the broadcaster. Press again to exit. See page 19.

## *Fav (Add/ Delete Favorite Channels)*

- 1 Press to add the currently viewed channel to your Favorite's List. Press OK to confirm.

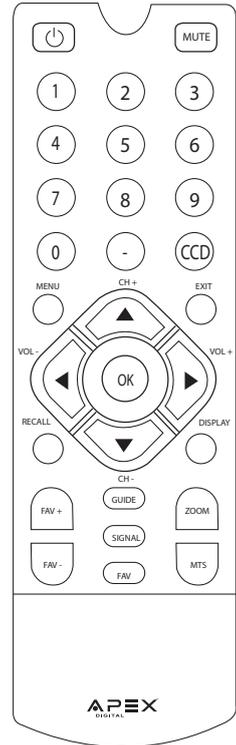
Add This Channel To Your Favorite's List

- 2 Press twice to delete the currently viewed channel from your Favorite's List. Press OK to confirm.

Delete This Channel From Your Favorite's List

## *MTS*

- 1 Press to select a 2nd audio channel providing alternative dialogue (if available).





# Zoom Functions

Due to the nature of digital broadcasts, the normal image displayed on your television may appear as a “windowbox” or “letterboxed” image. This is a normal condition based on signal transmission and programming. Press the ZOOM button on the remote control to minimize or eliminate the black bars on your TV display, if desired.

**Note:**

Standard digital (SD) broadcasts are not effected. They'll appear full screen.

## *Zoom effect on a 4:3 TV Display*

A windowbox image is typical when viewing DT broadcasts that are not widescreen presentations. Press Zoom to eliminate the black bars.

Normal



Zoom



A letterbox image is typical when viewing DT broadcasts that are presented in widescreen format. Press Zoom to eliminate the black bars.

Normal



Zoom



## *Zoom effect on a 16:9 TV Display (SD Broadcasts Only)*

When viewing TV broadcasts on a widescreen television you will find that SD programming does not fill the display entirely. Press ZOOM on the remote control until the display area is filled and black bars are minimized.

Normal



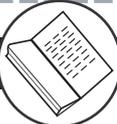
Zoom



Fill



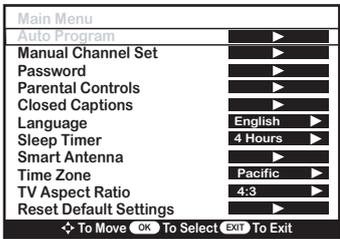
Note: Zoom does not function when viewing DT broadcasts that contain black bars.



# Main Menu

Press MENU on the remote control to display the Main Menu. It is strongly recommended to set up your personal preferences in accordance with the menu options. It is presumed your television antenna is installed. A rooftop antenna is strongly recommended.

## Auto Program

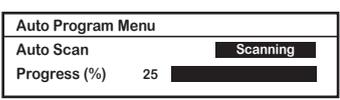


The Main Menu display is for accessing and setting up preferences for the DT250.

When Auto Program is highlighted, press OK to begin the auto scan program search.

Note: Auto Program search for digital channels in your local area may take several minutes to complete.

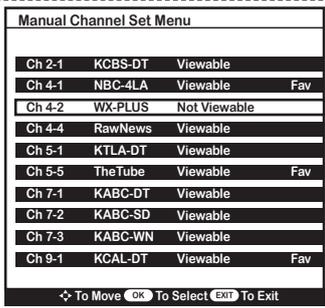
## Auto Scan Digital Channels



The unit will scan and search for all digital channels that can be received.

Note: TV reception is dependent on local terrain, distance from the local area antenna tower and strength of your antenna.

## Manual Channel Set (Add / Delete Channels)

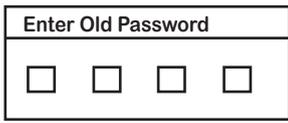


To add or delete digital channels that were found during auto scan.

- Using ▲▼ arrow buttons, highlight "Manual Channel Set". A menu of available channels will display.
- Press ▲▼ to select a channel to be viewable or not viewable. Press OK to confirm the change.

Note: You can add or delete channels from your Favorite's List from this menu. Highlight a channel, then press FAV.

## Set Password Code

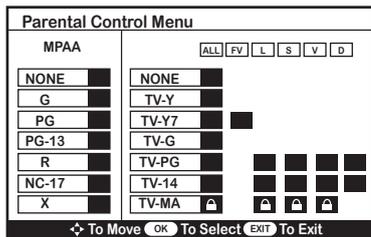


For access to Parental Controls, enter your 4 digit password. Factory default code: 0000



# Main Menu

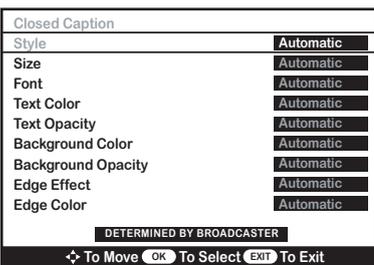
## Parental Control of MPAA Ratings



After your password code is accepted, the Parental Control < Menu will display.

- 1 Press ▲▼▶◀ arrow buttons to select the TV rating best suited to your family's preference.

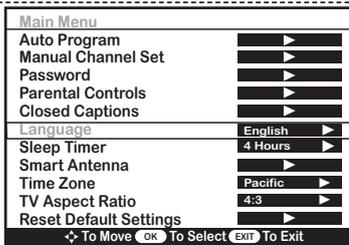
## Closed Caption



Press MENU on the remote control to display the Main Menu.

- 1 Using ▲▼ arrow buttons, highlight "Closed Caption" then press OK to display a menu of customizable options.
- 2 Press ▲▼ to highlight and select CCD display option preferences. Press OK to confirm.
- 3 Press Exit
- 4 Press CCD on the remote to display captions

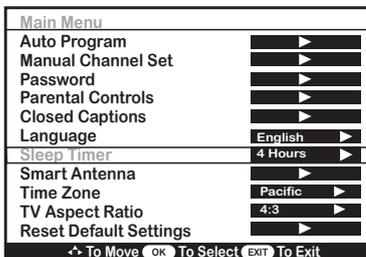
## Language



Press MENU on the remote control to display the Main Menu.

- 1 Using ▲▼ arrow buttons, highlight "Language" then press OK to select a preferred on screen display text: English > Spanish > French.
- 2 Press Exit

## Sleep Timer



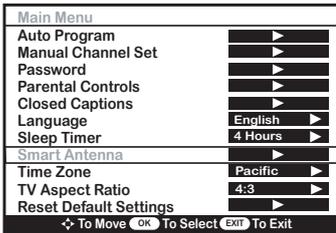
Press MENU on the remote control to display the Main Menu.

- 1 Using ▲▼ arrow buttons, highlight "Sleep Timer", then press ▶ to select how many hours before the unit should turn off (Standby mode) 1hr > 2hrs > 4hrs > off (factory default is set at 4hrs).
- 2 Press Exit



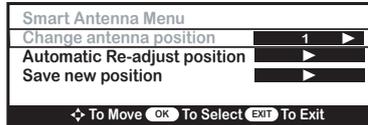
# Main Menu

## Smart Antenna (Optional)



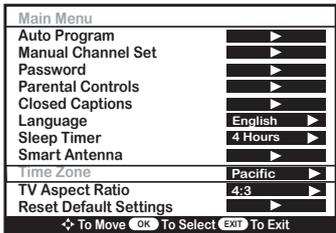
Press MENU on the remote control to display the Main menu.

- Using ▲▼ arrow buttons, highlight “Smart Antenna” to display the Smart Antenna menu, then press OK.



Note: A Smart antenna must be connected (CEA-909 Mode A) to display the Smart Antenna Menu.

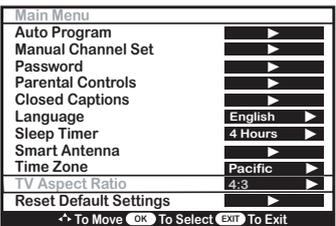
## Time Zone



Press MENU on the remote control to display the Main menu.

- Using ▲▼ arrow buttons, highlight “Time Zone”. Press ► arrow button to select your local time zone. See page 12.
- Press Exit

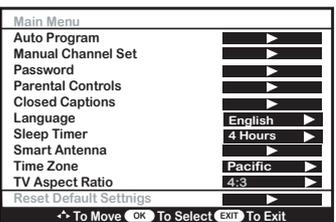
## TV Aspect Ratio



Press MENU on the remote control to display the Main menu.

- Using ▲▼ arrow buttons, highlight “TV Aspect Ratio”. Use ► arrow button to select the TV display shape connected to this unit (4:3 or 16:9). See page 12.
- Press Exit

## Reset Default Settings



Press MENU on the remote control to display the Main menu.

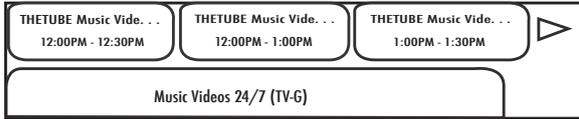
- Using ▲▼ arrow buttons, highlight “Reset Default Settings”. Press OK to reset all settings back to original factory status.



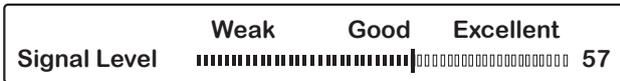
# Display Menu

## Guide

- 1 Press to display a guide of program information (if available).
- 2 Press ► to display future programming information (if available).



## Signal



- 1 Press SIGNAL to view a linear signal meter that indicates the strength of the digital transmission originating from the broadcaster.

## Volume



- 1 Press Volume + to increase volume.
- 2 Press Volume - to decrease volume.

It is recommended to adjust volume to the maximum level (100) for best audio results.



# Troubleshooting Guide

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Check for a possible solution to a symptom before contacting a customer service representative. We recommend visiting our website at: [www.apexdigitalinc.com](http://www.apexdigitalinc.com) for additional updates.

\*Antennaweb.org provides personalized information for choosing antenna type and orientation for your particular.

Symptom	Possible Solutions
Cannot receive certain channels through the antenna.	<ul style="list-style-type: none"><li>• Use the automatic scanning function to add the channels not included in memory.</li><li>• Signal from the TV station may be weak.</li><li>• Reposition antenna</li></ul>
No sound	<ul style="list-style-type: none"><li>• Check connected audio cables are completely inserted.</li><li>• Correct audio source from your amplifier.</li><li>• Mute function may be enabled, press Mute on remote.</li></ul>
Video noise or choppy picture	<ul style="list-style-type: none"><li>• Check connected video and audio cables are completely inserted</li><li>• Reposition antenna</li></ul>
TV blocked at certain channels	<ul style="list-style-type: none"><li>• Use the automatic scanning method to add the channels not included into the memory.</li><li>• Check parental control settings.</li></ul>
No picture	<ul style="list-style-type: none"><li>• Digital TV channel signal may be weak, try another channel</li><li>• Re-connect the antenna or cable wiring.</li><li>• Make sure the video devices are turned on.</li><li>• Make sure Auto Scan Channels is completed.</li></ul>
Black box on screen	<ul style="list-style-type: none"><li>• The "Text" option is enabled and no text is available.</li><li>• Turn off CCD on the remote control.</li></ul>
No power	<ul style="list-style-type: none"><li>• Batteries in the remote control may need replacing.</li><li>• Remove then re-attach AC plug to wall outlet after 30 s.</li></ul>



# Index

## A-C

Add Channels..... 17  
Analog Pass-Through..... 9  
Antenna ..... 8, 9  
Arrow Buttons..... 7, 14  
Aspect Ratio ..... 5, 19  
Audio ..... 11, 20  
Auto Program(scan)..... 12, 17  
Battery Installation..... 6  
Captions (Closed)..... 7, 13, 18  
Channel + - ..... 7, 14

## D-F

Delete Channels..... 15, 17  
Display Information ..... 7, 14  
Exit..... 7, 13, 18, 19  
Favorite Channels..... 7, 15  
Fill..... 16

## G-I

Guide..... 7, 14, 20  
Initial Set Up..... 12  
Installation..... 9-11  
    Audio..... 11  
    Composite ..... 10  
    S-Video ..... 10

## L-M

Languages ..... 17  
Main Menu Settings..... 17-19  
Menu..... 7, 12, 13  
Mute Sound..... 7, 13

## N-O

Normal..... 16  
Number Buttons..... 7, 13  
OK ..... 7, 14

## P-Q

Parental Control..... 18  
Password Code/Settings..... 17  
Power ..... 7, 8, 13  
Quick Start Guide..... 12

## R

Recall Last Channel ..... 7, 14  
Remote Control..... 6-7  
Reset Default Settings..... 19

## S

Safety Info..... 1-3  
Signal..... 15, 20  
Smart Antenna..... 8, 19

## T-U

Time Zone..... 12, 19  
TV Aspect Ratio ..... 12, 16, 19

## V-Z

Volume + -..... 7, 14, 20  
Warranty..... 23  
Website..... 21  
Zoom..... 7, 16



# Limited Warranty

EN

**APEX**  
DIGITAL

## DT250 Digital TV Converter Box

### 1 YEAR PARTS / 90 DAY LABOR LIMITED WARRANTY

#### WHO IS COVERED?

Limited One (1) Year Parts Warranty - Apex Digital warrants the parts in this product against defects in material or workmanship for a period of one (1) year from the date of original retail purchase. During this period, Apex Digital will replace a defective part with a new or refurbished part without charge to you. Limited Ninety (90) Days Labor Warranty - Apex Digital warrants it will be responsible for labor charges for repair or replacement of parts on this product for a period of ninety days from the date of original retail purchase. Keep the original box and packaging in case your unit requires service. You are responsible for the shipping costs to Apex Digital. E-mail or call Customer Support for detailed instruction on where to ship your product for repair. A return authorization number is required before acceptance by Apex Digital. This required number must be clearly written on the package or the delivery may be refused by warehouse personnel

#### WHAT IS COVERED

Warranty repair from the original date of purchase: 1 year replacement of parts; 90 day limited labor warranty coverage. ***If you don't have proof of purchase, your unit will be considered out of warranty and charged at a flat labor rate.***

#### WHAT IS EXCLUDED?

Your warranty does not cover:

- Labor charges for installation or setup of the product, adjustment of customer controls on the product and installation or repair of antenna systems outside of the product.
- Product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Apex Digital, Inc.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and / or authorized, or repair of products damaged by these modifications.
- Incidental or consequential damages resulting from the product. (Some states do not allow the incidental or consequential damages, so the above exclusion may not apply to you. This includes but is not limited to, pre-recorded material, whether copyrighted or not.)
- Shipment and service to a NON-AUTHORIZED repair facility.

#### REGISTERING YOUR PRODUCT ONLINE:

To register your product go to [www.apexdigitalinc.com](http://www.apexdigitalinc.com). Click on Support Services, then Product Registration. Validate your warranty, gain access to customer support representatives, product news, email notifications and access to special offers.

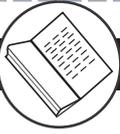
#### WHERE IS SERVICE AVAILABLE?

If you previously registered your product(s) online at [www.apexdigitalinc.com](http://www.apexdigitalinc.com) go to Support Services, then My Account to email your request. You may also call us at (866) 427-3946 Monday-Friday, 6am-6pm PST.

#### ORDERING ACCESSORIES:

You may purchase accessories by visiting [www.shop-apex.com](http://www.shop-apex.com) or call 866-930-1236 anytime.

*This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.*



## Legal Notice

### FCC Part 15

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

This equipment has been 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 to 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 turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

### FCC warning

Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

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