

# DIGITAL TO ANALOG TV SIGNAL CONVERTER



**Owner's Manual**  
Models: DTA1010

**READ WARNINGS AND OPERATING INSTRUCTIONS CAREFULLY,  
SAVE THESE INSTRUCTIONS.**

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**DO NOT RETURN THIS  
CONVERTER TO THE STORE!**  
(The terms of the federal government coupon program  
do not permit store returns for cash or store credit)

**HAVE QUESTIONS OR NEED HELP?**

Please read the Troubleshooting Guide on page 12. If you still have difficulties or if  
you require an Access HD antenna please call: **[1] 800-393-1246**  
or go to **www.AccessHD.TV**

**Have the following information ready when you call us:**

Date of Purchase: \_\_\_\_\_  
Location of Purchase: \_\_\_\_\_  
Serial #: \_\_\_\_\_

## TROUBLESHOOTING

**Q: It takes a while to display picture on the screen after turning power on or after changing channel.**

**A:** It will take several seconds for the DTA1010 to show the logo or picture after power on since the systems have to finish the initialization of the main chip and demodulator. In case of digital broadcasting, it could take 1 to 2 seconds to receive data. Therefore, it is not a faulty receiver if the picture display is delayed for a few seconds.

**Q: There is no picture on the screen.**

**A:** Make sure the power is on. Make sure the cable between the receiver and the TV is connected properly.

- Make sure the TV's external video input mode is selected correctly.
- Make sure the CH3/4 output matches your TV set. Make sure the antenna is positioned correctly. Try turning the receiver off and then back on again. Press the signal button on the RCU. This will show if you have NO signal (antenna is not connected properly), or a WEAK signal in which case you may need a new antenna.
- If you need to purchase a new antenna, contact Access HD at [1] 800-393-1246 or go to AccessHD.TV.

**Q: Poor video quality (macro blocking) or screen flickering.**

**A:** This could be as a result of a poor broadcast signal, in which case your antenna may need re-positioning or you may need a new antenna. It may also simply signify a loose connection or broken cable from your antenna to the DTA1010 or between your DTA1010 and TV.

**Q: No Sound.**

**A:** Make sure the cable between the receiver and the TV audio jack or your audio system is connected properly.

- Try pressing the MUTE button on the remote.
- Try pressing the VOL+ button on the remote continuously.
- Try turning the receiver off and then back on again.

**Q: The remote control does not work.**

**A:** Make sure there is no obstruction between the remote controller and the remote sensor of the receiver. Make sure the distance and degree is not out of range. Check to insure the batteries are installed correctly. If batteries are working, when you press any RCU button you will see the transmit LED at the front of the RCU flash. If you are using the Universal RCU, this RCU is capable of controlling your TV, Cable, satellite and VCR. Press the STB button on the RCU to make sure that you have selected the RCU codes for the DTA1010.

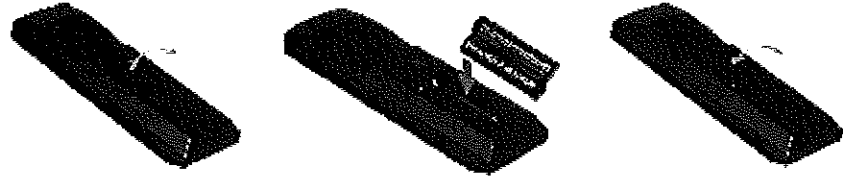
## TECHNICAL SPECIFICATIONS

Model:	AccessHD DTA1010
Main processor:	Zoran SupraTV 741
Memory:	16MB DDR plus 1MB Flash
Video Input:	ATSC antenna F-Type connector.
Input video formats:	All ATSC compliant Standard definition and High definition 480i, 480p, 720p, 1080i, 1080p
Video output:	NTSC RF signal through F-Type connector or composite video through RCA connector.
Output video formats:	480p NTSC (4:3, 16:9, zoom, pan modes)
Audio:	Analog stereo through L+R RCA connectors. (Dolby Digital down mixed).
Input voltage:	100-240VAC 50/60Hz
Power consumption:	8W normal, <1W in standby mode.
Service:	RS232 connector.
Smart antenna:	RJ11 connector.
RCU protocol:	NEC.

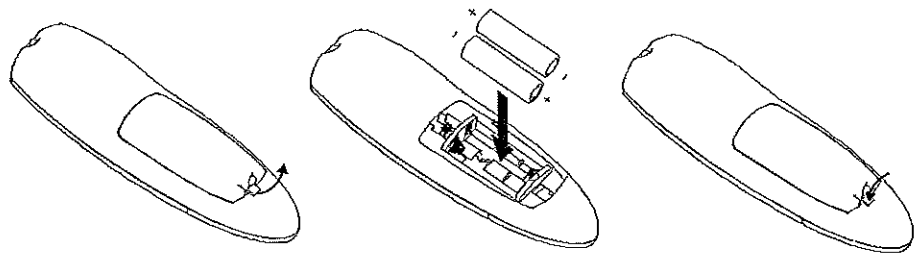
Rev: March 6, 2008

### Installing the batteries.:

**RCU Dedicated** - Remove the battery cover from the remote control and put (2) AAA size batteries inside the compartment. The diagram inside the battery compartment shows the correct way to install the batteries.



**RCU Universal** - Remove the battery cover from the remote control and put two (2) AA size batteries inside the compartment. The diagram inside the battery compartment shows the correct way to install the batteries.



### Using the Remote Control:

To use the remote control, point it towards the front of your DTA1010. The remote control has a range of up to 7 meters (23 ft) from the DTA1010 at an angle of up to 60 degrees. The remote control will not operate if its path is blocked.

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OR CALL [1] 800-393-1246**

### Setting up passwords:

The DTA1010 has a user password so that only the user/parent can change the list of viewable channels and the parental control settings. The default password is 6666.

To change the default password, follow the onscreen instructions of entering your old password (6666 unless you have changed it), enter new password, confirm new password.

### Parental control:

This setting allows you to control what is permitted to be viewed on your DTA1010 by taking advantage of one of two systems used in digital TV.

#### Motion Picture (MPAA) ratings:

**G** (General Audiences. All Ages Admitted),  
**PG** (Parental Guidance Suggested),  
**PG-13** (Parents Strongly Cautioned),  
**R** (Restricted, Under 17 Requires Adult Guardian),  
**NC-17** (No one 17 and under allowed).

#### TV Rating system (EIA766) ratings:

**TV-Y** (all children),  
**TV-Y7** (directed at older children),  
**TV-G** (general audiences),  
**TV-PG** (parental guidance suggested),  
**TV-14** (parents strongly cautioned),  
**TV-MA** (mature audiences only).

#### Content ratings:

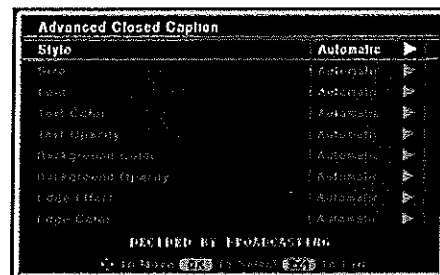
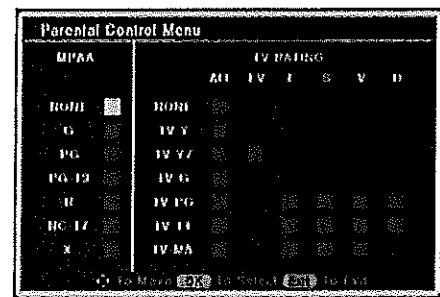
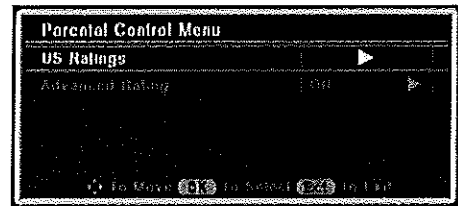
**FV** (Fantasy Violence),  
**V** (moderate Violence),  
**S** (mild Sexual situations),  
**L** (mild coarse Language),  
**D** (mature themes suggestive Dialogue).

To select the level of parental control required, select this option. You will be prompted to enter your password. Once in the parental control menu, select "US Ratings". This will provide a ratings menu where you can specify the type of programming which is re-

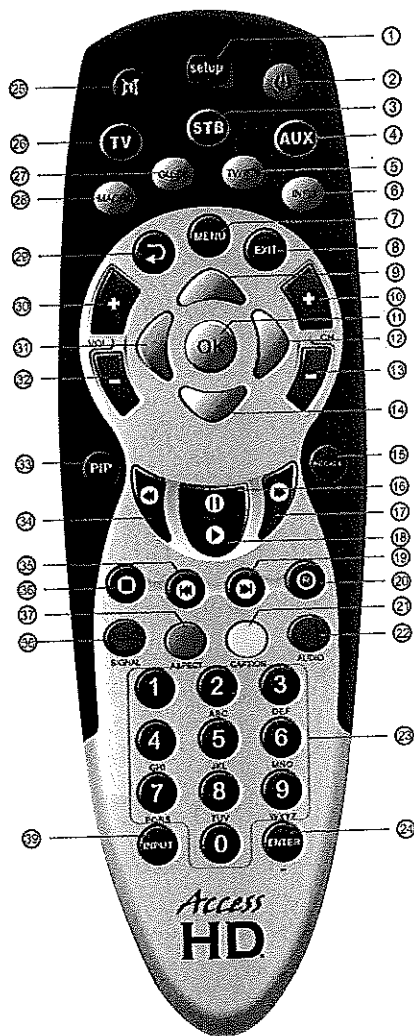
### Closed captions:

If you would like closed captions, broadcast with the programs, to be displayed, then this selection enables you to specify the color and style of these closed captions. Press the "CAPTION" button on the RCU to display the menu.

If you select "closed captions" in the main menu, you have the option to set the styling of the closed.



**Remote Key functions  
(Universal RCU)  
Registry # 17490 (4452h)**



1. **SETUP:** Used to enter program mode, when you can enter a code for another piece of electrical equipment such as your TV or VCR. A complete set of codes is supplied with this RCU.
2. **STANDBY:** Press to switch the DTA1010 on and off. When not in use it is recommended that you switch the DTA1010 off to save your power bill and the environment. An automatic power down function is also available in the on-screen menu.
3. **STB:** This puts the RCU in STB operation mode if you have been in TV or AUX mode.
4. **AUX:** This puts the RCU in AUX operation mode if you have been in TV or STB mode. AUX can be used for another piece of equipment such as a Satellite receiver.
5. **TV/STB:** Toggles between TV and DTA1010 mode.
6. **INFO:** Press to display information about the current channel.
7. **MENU:** Press to display the on-screen menus, or to revert to the previous menu.
8. **EXIT:** Press to exit from the set-up menus.
9. **U:** Used to navigate up in the on-screen menus.
10. **CH+:** Press to view the next channel. This will not work if you are in any of the on-screen menus.
11. **OK:** Used to select or confirm an item when using the on-screen menus.
12. **>:** Used to navigate right in the on-screen menus.
13. **CH-:** Press to view the previous channel. This will not work if you are in any of the on-screen menus.
14. **D:** Used to navigate down in the on-screen menus.
15. **RECALL:** Press to return to the last channel you were watching.
16. **PAUSE:** Used when operating a VCR, DVD or DVR.
17. **FAST FORWARD:** Used when operating a VCR, DVD or DVR.
18. **PLAY:** Used when operating a VCR, DVD or DVR.
19. **JUMP FORWARD:** Used when operating a DVD or DVR.
20. **RECORD:** Used when operating a VCR or DVR.
21. **CAPTION:** Press to view closed captions when broadcast with the channel. Press to select services 1-6.
22. **AUDIO:** Often more than one audio track is broadcast with the picture, such as other languages. Press to toggle between different audio tracks.
23. **NUMBER KEYS:** Press to directly select a particular channel instead of using the Up and DOWN button.
24. **ENTER:** Used when entering a PIN number.
25. **MUTE:** Press to mute the sound. Pressing again will restore the sound.
26. **TV:** This puts the RCU in TV operation mode if you have been in STB or AUX mode.
27. **TV/RADIO:** Used to listen to the radio channels broadcast within a channel. Satellite & Cable only.
28. **GUIDE:** Press this key to show the on-screen electronic program guide (EPG).
29. **REPEAT:** Used when operating a DVD player.
30. **VOL+:** Press to increase the audio volume.
31. **<:** Used to navigate left in the on-screen menus.
32. **VOL-:** Press to decrease the audio volume.
33. **PIP:** Picture In Picture. Available on some TVs and DVRs.
34. **JUMP BACKWARDS:** Used when operating a DVD or DVR.
35. **SKIP BACKWARDS:** Used when operating a DVD or DVR.
36. **STOP:** Used when operating a VCR, DVD or DVR.
37. **ASPECT:** Press to change the picture output between NORMAL (4:3), Zoom (4:3 from 16:9), Wide (for 16:9 TV set) and Cinema (4:3 from 16:9).
38. **SIGNAL:** Press to show the signal strength from your antenna.
39. **INPUT:** Used to select the input on your DVR.

## OPERATING YOUR CONVERTER BOX

### Turning on your converter box:

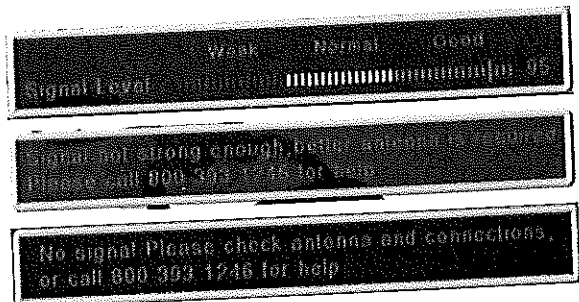
Ensure all connections have been made using the reference diagrams on the previous pages. When you plug the power cord of this set-top box into a power outlet and press the **POWER** switch on the front panel, the box will be turned on for the first time. Pressing the **STANDBY** button on the remote control will switch the set-top box to or from standby mode. Turn on the TV set and select the appropriate input connector. This may be external AV mode if you have used the RCA "video output" connector, or normal TV if you have used the RF connector. Ensure the CHAN 3/4 matches the TV input. The DTA1010 will be set to CHANNEL 3 when you receive it. To change to CHANNEL 4, use the switch on the back panel. See Section 4.2 (item 3)

### Weak signal or no signal present:

In most cases, you will be able to use your existing roof top or indoor antenna to view digital TV signals with your DTA1010. Digital TV is different from analog TV in that pictures do not reduce in quality (fuzzy pictures and shadowing) with a degraded signal from your antenna caused by the antenna being wrongly positioned or not of adequate size for your area. Instead the picture will disappear completely. If your antenna is not suitable for DTV reception (wrong size, type or badly positioned), you will not see any picture at all. To help you confirm what the problem is, the DTA1010 has a built in signal strength meter which will show the strength of the incoming signal. **Press the "signal" button on the RCU and you will see this signal meter.**

If the signal is too weak for DTA reception, a message will appear on screen **"Signal not strong enough"**. A weak signal will result in no picture or macro blocking and freezing pictures. If you need to purchase a new antenna, contact Access HD at [1] 800-393-1246 or go to AccessHD.TV.

If the antenna is not connected at all a message will appear on screen "No Signal". This can be caused by a loose or broken connection between your antenna and the DTA1010



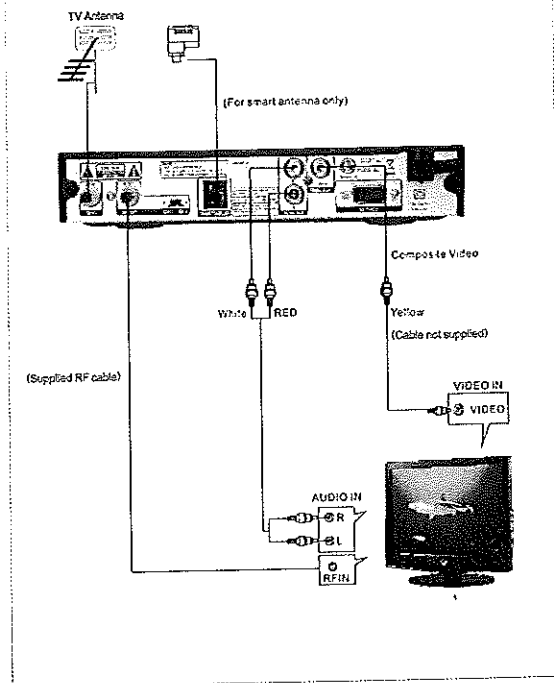
These messages can be cleared by pressing OK on the RCU. They will reappear if you select a new channel and the same problem is present.

If you need to purchase a new antenna, Access HD stocks a range of digital TV antennas designed specifically for the reception of Digital TV signals including the high definition broadcasts. See [www.AccessHD.TV](http://www.AccessHD.TV) It is strongly recommended that a professional installer installs your roof top antenna. Note: If your antenna has separate leads for VHF and UHF signals, you will need to purchase a combiner to produce a single combined input to the DTA1010.

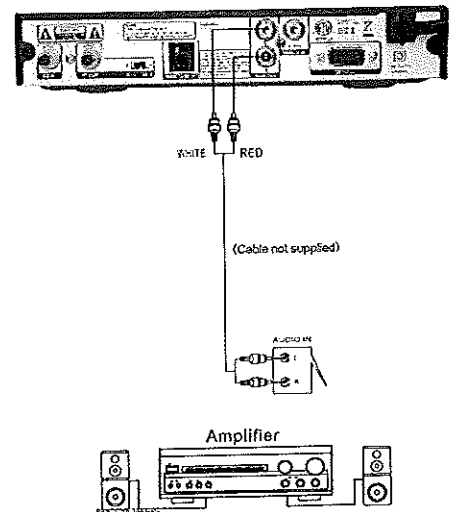
### Initial (first time) set-up:

If this is the first time you have turned on the DTA1010 an auto-program menu will appear. The auto program mode will automatically search for all available channels in your area for you and assign channel numbers to them. This may take up to 5 minutes.

## Connecting your TV and antenna:

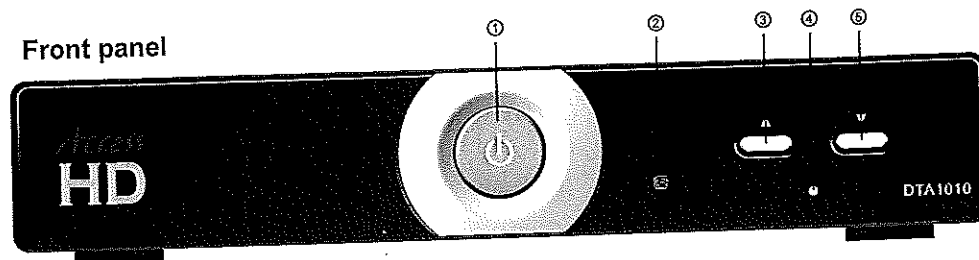


## Connecting to other devices (VCR, DVR, AUX):



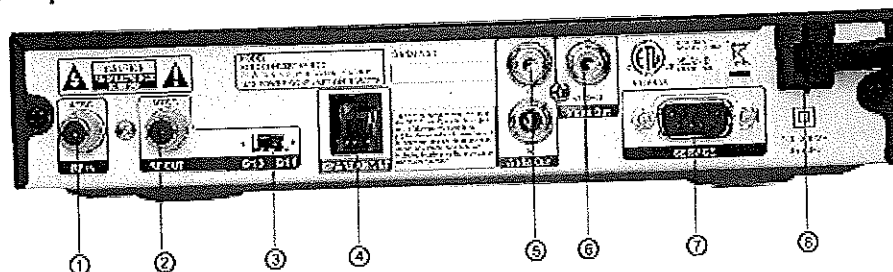
## COMPONENT IDENTIFICATION

### Front panel



1. **POWER BUTTON:** Used to turn the main/standby power on and off.
2. **REMOTE CONTROL SENSOR:** Used to pick up the transmitted commands from the RCU
- 3/5. **CHANNEL UP/DOWN:** Used to change the channels when the on-screen menus are not in use.
4. **STANDBY INDICATOR:** Used to show the status of the DTA1010. The red indicator will be on if the DTA1010 is in standby mode. The green indicator will be on if the unit is in viewing mode.

### Rear panel



1. **RF IN:** Connect your roof top antenna here.
2. **RF OUT:** Connect your TV to the DTA1010 with the supplied cable. This will output channel 3/4 NTSC to your TV. Alternatively, use the "video output" to connect to your TV for a better quality picture.
3. **CH3/4 SWITCH:** Used to select NTSC Channel 3 (61.25MHz) or Channel 4 (67.25MHz)
4. **SMART ANTENNA CONNECTION:** Used to connect to a smart antenna rotator.
5. **L/R AUDIO:** Connect these stereo outputs to your TV, VCR or HIFI
6. **VIDEO OUTPUT:** If you TV supports and RCA type jack, video input, it is recommended that you use this connection over the "RF Output" connection.
7. **SERVICE:** This RS232 connector is used for software upgrades and servicing only.
8. **MAIN POWER:** Connect this cable to the mains power.

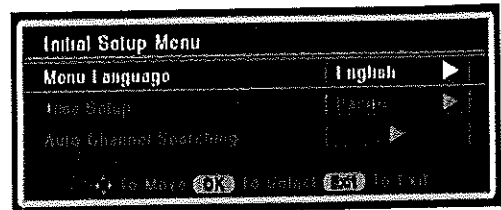
## CONNECTING YOUR CONVERTER BOX

The following diagrams show typical configurations only and may differ slightly to your existing equipment. If you are unsure how to connect your DTA1010, consult the manufacturers user manual supplied with your external equipment.

**FOR TECHNICAL ASSISTANCE OR TO  
PURCHASE SPARE PARTS VISIT  
[WWW.ACCESSHD.TV](http://WWW.ACCESSHD.TV)  
OR CALL [1] 800-393-1246**

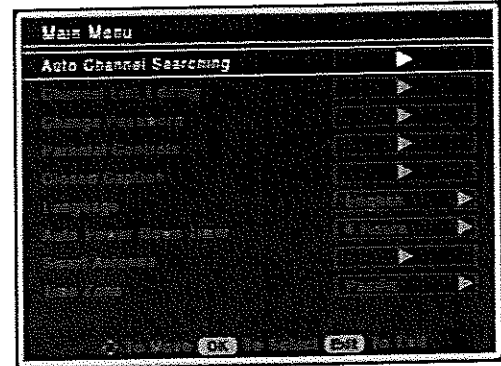


Use the RCU to navigate the menu to select language. Use the RCU to navigate to the "auto program" and select OK. The DTA1010 will now search for all available channels in your area and add them.



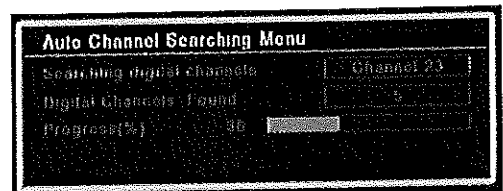
#### Main menu:

Press the MENU button on the RCU. The main menu will be displayed. The first item on the menu, Auto Program, will be highlighted by default. Use the RCU to navigate the menu.



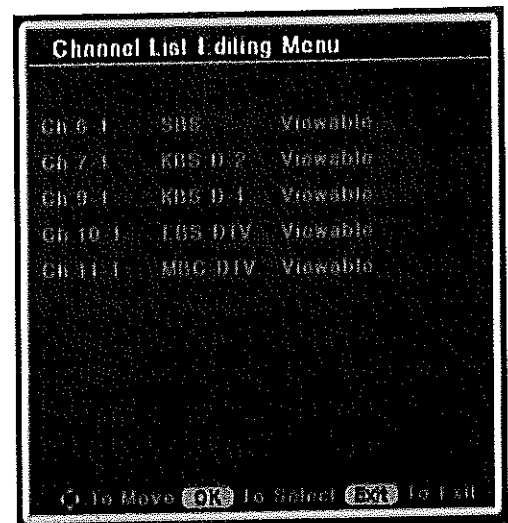
#### Auto program channels:

If it's the first time you are using the DTA1010, you should scan all the TV channels first. If this was not done this automatically, then press the arrow buttons to move the cursor to Auto Program in the main menu. Press the OK button to confirm. You will see a status menu, which indicates the auto search is in process. After all the channels in your area have been found, the first of the discovered channels will appear on the screen. You can run auto program again at any time in the future to repeat.

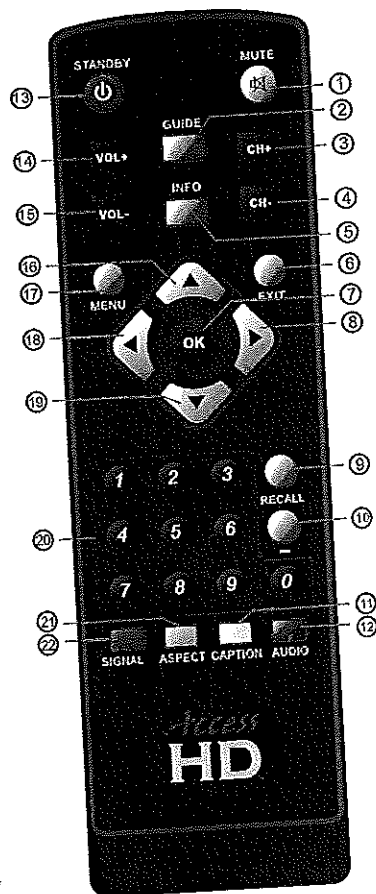


#### Channel list editing:

You can use this feature to specify which channels can be watched in the list of discovered channels. All channels will be "viewable" by default, but should you wish to remove a particular channel, so that it is not available in the



## Remote Key functions (Dedicated RCU)



1. **MUTE:** Press to mute the sound. Pressing again will restore the sound
2. **GUIDE:** Press this key to show the on-screen electronic program guide (EPG)
3. **CH+:** Press to view the next channel. This will not work if you are in any of the on-screen menus.
4. **CH-:** Press to view the previous channel. This will not work if you are in any of the on-screen menus.
5. **INFO:** Press to display information about the current channel
6. **EXIT:** Press to exit from the set-up menus.
7. **OK:** Used to select or confirm an item when using the on-screen menus.
8. **>:** Used to navigate right in the on-screen menus
9. **RECALL:** Press to return to the last channel you were watching.
10. **-:** Press to input a dash into your channel selection eg. 23-1
11. **CAPTION:** Press to view closed captions when broadcast with the channel. Press to select services 1-6.
12. **AUDIO:** Often more than one audio track is broadcast with the picture, such as other languages. Press to toggle between different audio tracks.
13. **STANDBY:** Press to switch the DTA1010 on and off. When not in use it is recommended that you switch the DTA1010 off to save your power bill and the environment. An automatic power down function is also available in the on-screen menu.
14. **VOL+:** Press to increase the audio volume.
15. **VOL-:** Press to decrease the audio volume.
16. **U:** Used to navigate up in the on-screen menus
17. **MENU:** Press to display the on-screen menus, or to revert to the previous menu.
18. **<:** Used to navigate left in the on-screen menus
19. **D:** Used to navigate down in the on-screen menus
20. **NUMBER KEYS:** Press to directly select a particular channel instead of using the Up and DOWN button.
21. **ASPECT:** Press to change the picture output between NORMAL (4:3), Zoom (4:3 from 16:9), Wide (for 16:9 TV set) and Cinema (4:3 from 16:9).
22. **SIGNAL:** Press to show the signal strength from your antenna.

**FOR TECHNICAL ASSISTANCE OR TO  
PURCHASE A NEW OR UPGRADED REMOTE  
CONTROL VISIT [WWW.ACCESSHD.TV](http://WWW.ACCESSHD.TV)  
OR CALL [1] 800-393-1246**

If you choose the **Styles** as **Automatic**, then the caption Size/Font/Text Color/Text Opacity/Background Color/Background Opacity/Edge Effect/Edge Color will all be set for you. You will see help information **DECIDED BY BROADCASTER** at the bottom of the menu. If you choose the Style as **Custom**, you will be able to change all of the items above. A sample will be displayed at the bottom of the menu.

#### Language:

This option allows you to change the on-screen menu language from English to Spanish or French. The default language is English.

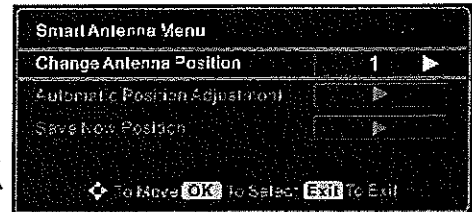
#### Auto power down timer:

This option allows you to set a time for automatic power down. Automatic power down will happen when the DTA1010 has been inactive for the time you set in this option. Power down means that the converter will go into standby mode to save electricity and the environment.

#### Smart antenna:

Some users may be using a smart antenna to optimize the signal from broadcasts being received from different directions. i.e. Your CBS affiliate's broadcast tower may be in a different location to your NBC affiliate's. A normal antenna is not able to optimize signal from multiple directions, so a smart antenna can be used.

The DTA1010 is able to interface with a smart antenna controller via the RJ11 connector on the back panel (EIA/CEA-909 Standard Interface).



If you do not have a smart antenna connected, you will not be permitted to enter this menu option. A message will appear "No smart antenna detected". Please note, some smart antennas are intentionally designed to be incompatible with the standard interface. Please verify the antenna's interface compatibility with the antenna manufacturer before your purchase.

#### Time Zone:

This option allows you to select the time zone. Eastern, Central, Mountain, Pacific, Alaska and Hawaii are available

#### Aspect Ratio:

Not a menu item. Use green button on RCU (labeled "Aspect") to switch between 4:3, 16:9 (widescreen) and letterbox.

Thank you for purchasing this converter box, which has been designed and manufactured to give you many years of viewing pleasure. This unit will enable you to view digital broadcasts after February 2009 when analog transmissions will be turned off in the USA. This unit has been approved by the NTIA for the coupon program.

### IMPORTANT SAFETY INSTRUCTIONS

Read and keep these Instructions. Follow all instructions and heed all warnings.



- To prevent fire or electric shock, do not expose the unit to rain or moisture. Never attempt to open the cabinet. Dangerous high voltages are present in the unit.
- Clean only with a damp cloth.
- **Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.**
- Do not install near any heat sources such as radiators, heat registers, stoves, or other converter (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized plug. A polarized plug has two blades with one wider than the other to ensure the correct orientation of the plug. If the provided plug does not fit into your outlet, consult an electrician..
- Protect the power cord from being walked on, pinched and bent, particularly at the point where it exits from the converter.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this converter during lightning storms.
- Unplug this converter when not in use for long periods of time. This will save you money.

Refer all servicing to qualified service personnel. Servicing is required when the converter has been damaged in any way, such as power-supply cord or plug is damaged, liquid has spilled onto the converter, objects have fallen onto the converter, the converter has been exposed to rain or moisture, converter does not operate normally, or has been dropped.

### REMOTE CONTROL UNIT (RCU)

Two types of RCU are available with the DTA1010. Option 1 is a dedicated RCU that works only with this device. Option 2 is a Universal RCU model capable of operating your TV, VCR, satellite set-top-box or cable set-top-box in addition to the DTA1010.

To program the Universal RCU with the codes to operate you model of TV, VCR etc, you need to enter a numerical code. A full list of equipment models with their corresponding codes can be found on the [www.AcccesHD.TV](http://www.AcccesHD.TV) website.

#### To program the RCU:

Press "TV" (or "AUX"), Press "SETUP" and hold for 3 sec until the LED blinks twice, press "1" (or "3" for AUX), enter the numeric code of your TV model. If a valid code has been entered the LED will blink twice. If it is an invalid code you will see one long blink.