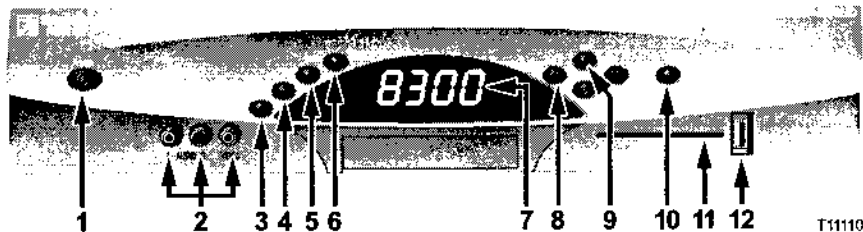




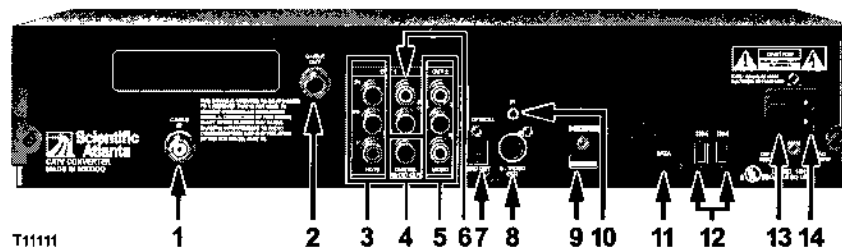
What's On the Front Panel?



- T11110
- 1 Power** Turns the 8300HD on and off.
 - 2 Input Video and Audio** Connects to video and left/right (L/R) audio outputs of an external device to deliver the audio and video to a TV or other device.
 - 3 List** Displays the list of recorded programs.
 - 4 Exit** Exits menus, the on-screen guide, and program information.
 - 5 Info** Displays a description of the selected program. This key is available from the on-screen guide and while viewing a program.
 - 6 Guide** Accesses on-screen services, such as the on-screen guide, video-on-demand, or pay-per-view.
 - 7 LED Display** Displays the selected channel number and time of day. The LED also displays the following:
 - Message ()
 - HDTV
 - Power ()
 - Output Resolution (1080i, 720p, 480p, 480i)
 - RECORD
 - AUTO - Automatically outputs scan rates that your TV can accept
 - 8 VOL + and VOL -** Enables you to increase and decrease the volume.
 - 9 CH + and CH -** Enables you to scroll up and down through the channels.
 - 10 Select** Provides access to your on-screen selection.
 - 11 Smart Card*** Allows smart card access.
 - 12 USB Port*** Connects to external equipment, such as a keyboard.

* This connector is reserved for future use or may not be available on all 8300HD models.

What's On the Back Panel?



- T11111
- 1 Cable In** Connect the coaxial cable that delivers the signal from your cable service provider.
 - 2 Cable Out** Connect a coaxial cable to Cable Out to send analog audio and video signals to a TV or VCR. These signals are SDTV video and audio.
 - 3 Component Outputs (Y Pb Pr)** Connect the HDTV (Y, Pb, Pr) component output ports to the HDTV input on your HDTV.
 - 4 Digital Audio Output** Connect an RCA cable to send a digital audio signal to a surround-sound receiver or other digital audio device.
 - 5 Secondary Video and Audio Out** Connect to either a VCR for archiving saved content from the 8300HD or connect to another set of inputs (composite) on your HDTV.
 - 6 Audio Out (LEFT and RIGHT)** Connect RCA cables to Audio Out to send analog audio signals (left and right) to a stereo receiver or a TV with stereo outputs.
 - 7 Optical Audio Output** Connect an optical cable to send a digital audio signal to a surround-sound receiver or other digital audio device.
 - 8 S-Video Out** Connect an S-Video cable to send an S-Video signal to your TV or VCR. This signal is standard definition but higher quality than other SDTV connections.
 - 9 HDMI** Connect the HDTV HDMI connector to the HDMI port. HDMI supports both digital audio and video.
 - 10 IR** (This connector reserved for future use.)
 - 11 SATA** Connect to an external Serial ATA (SATA) hard disk drive for expanded recording capability. Please check with your cable service provider for a list of approved models for use with the 8300HD.
 - 12 1394 Firewire** Connect to optional 1394-equipped (FireWire) devices. This connector is reserved for future use and may not be available on all 8300HD models.
 - 13 AC Switched Outlet** Connect the AC power cord from another device, such as a TV.
 - 14 AC Power Input** Connect the power cord to deliver power to the 8300HD.

HDTV vs SDTV

You have several options for connecting your TV to entertainment devices. The connection option you choose depends on the type of TV you have and the entertainment devices you want to connect to your TV. For the best results, read this section to learn more about high-definition TV (HDTV) and standard-definition TV (SDTV) connection options and screen resolutions before you begin to connect the 8300HD to your entertainment devices.

What Are the Differences Between Widescreen HDTVs and Standard TVs?

The widescreen HDTV is 1/3 wider than a standard TV. The widescreen HDTV aspect ratio is 16:9 (compared to 4:3 for SDTV).

HDTV uses a much finer screen resolution to create the TV picture—1125 lines for HDTV compared to 525 lines used in SDTV. This means that the screen resolution for HDTV can be up to 1920x1080 pixels, compared with 720x480 for SDTV.

In the USA, HDTV is always broadcast with digital signals. SDTV is currently broadcast in both digital and analog. (However, HDTV and digital SDTV do not use the same digital signal.)

Generally, all HDTV-ready monitors or integrated HDTV sets are capable of supporting an SDTV 480i or 480p signal. Not all HDTV monitors support both 720p and 1080i HDTV signals. For instance, some plasma screens only support 720p.

What Are Screen Resolutions?

You want to set up the 8300HD to provide your TV with the best picture size and format that your TV supports.

Your cable service provider broadcasts programming in SDTV or HDTV format. The screen resolution that your TV supports determines how the program will look on your TV screen.

For this reason, the 8300HD needs to know the screen resolution that is best for your TV. If the 8300HD is not set up to provide video in the proper screen resolution, you will see a black screen or a distorted picture when you turn on your TV.

The 8300HD provides video in the following screen resolutions.

SDTV Screen Resolutions	<ul style="list-style-type: none"> • 480 lines, interlaced (480i) • 480 lines, progressive (480p)
HDTV Screen Resolutions	<ul style="list-style-type: none"> • 1080 lines, interlaced (1080i) (This is the default setting for the 8300HD.) • 720 lines, progressive (720p)

HDTV vs SDTV, continued

About HDTVs

There are several brands and models of HDTVs in the marketplace. The features and connectors are not the same on all brands and models.

- Most HDTVs have YPbPr connectors for component video inputs.



- Some HDTVs have a DVI or HDMI connector. The DVI connector provides a digital video connection. The HDMI connector provides both a digital video and audio connection. The DVI or HDMI connector provides the optimal connection to an HDTV. If your HDTV has a DVI connector, you will need an HDMI-to-DVI adaptor.



- Some HDTVs have only RGB connectors. If you have one of these HDTVs, you may need an RGB adaptor. Check with your cable service provider for information about receiving an RGB adaptor.



- The S-Video Out connection provides an optimal video connection to standard definition TVs. See **About SDTVs**, next in this section, for more information.



- The Cable Out connector provides a video and audio connection to a VCR or standard definition TV. See **About SDTVs**, next in this section, for more information. **Note:** S-Video and coaxial cables deliver SDTV programming. They do not deliver HDTV programming.



About SDTVs

If you have an SDTV, you will need to go through the set-up mode on the 8300HD if your SDTVs has YPbPr inputs. The 8300HD will function with these inputs only when outputting in the 480i screen resolution mode. (See **What Are Screen Resolutions**, earlier in this section, to begin this process.) For more information about the set-up process, contact your cable service provider.