



SRT 5410

High Definition Digital Terrestrial Receiver

USER'S MANUAL



Important Safety Instructions

- To avoid electric shock, do not open the unit.
- There are no user-serviceable parts inside. Servicing can only be performed by qualified service personnel.
- Connection can only be to a 240V AC mains supply.
- All safety and operating instructions should be read before the product is operated.
- All warnings on the product and in this user's manual should be adhered to.
- The antenna cable must be earthed.
- Do not use attachments not recommended by the product manufacturer as they may cause hazards or damage the equipment.
- Do not overload adaptors, wall sockets or extension cables as this can result in unit failure or electric shock.
- For cleaning, use only a dry or lightly dampened cloth. Do not use liquid cleaners or aerosol cleaning products.
- Do not place this product on an uneven surface.
- Do not block the ventilation slots on the top of the unit.

Overview

Thank you for purchasing this Strong Digital Terrestrial Television Receiver.

This product has been manufactured in accordance with strict quality control procedures and is fully compliant with Australian specifications.

Your new receiver will enable you to experience superior picture and sound quality, widescreen images, extra channels plus a variety of new features.

- For a complete list of all of our digital terrestrial television receivers and satellite receivers, please go to our website: **www.strong-technologies.com**
- For general enquiries, please email us at **techau@strong-technologies.com**
- For technical assistance, please call our Technical Support Help Line on **1 800 820 030**

Main Features

- High Definition Multimedia Interface (HDMI)
- Component: Y/Pb/Pr
- RCA/Cinch: CVBS + L/R Audio
- Tuner loop-through
- Favourite Channels and Stations Lists
- 16:9 and 4:3 aspect ratio
- Captions and Teletext
- 8 Timer Event Settings
- COFDM Demodulation
- Full Function Infra-Red Remote Control
- Multi-language support
- Dolby Digital: S/PDIF Optical
- MPEG-2/MPEG-4 AVC HD/H.264 compliant
- CD-quality audio (mono and stereo)
- Auto & Manual Search Modes
- EPG: Electronic Program Guide
- Signal Level and Quality Indicators
- Time Clock Settings
- Parental and Menu Lock
- USB Port for Software Upgrade
- DVB/T compliant
- Dimensions: W360mm x D230mm x H63mm

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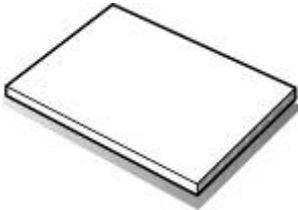
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Checklist of Accessories

The following accessories should have been supplied with your **SRT 5410**. If any were not supplied, contact the retailer from whom you purchased the unit.

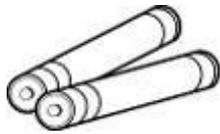
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Batteries (AAA type) : 2



CVBS Composite Video and
Audio Cable
(yellow, white, red) : 1



Y / Pb / Pr Component Cable
(blue, red, green) : 1



Controls and Indicators

Front panel

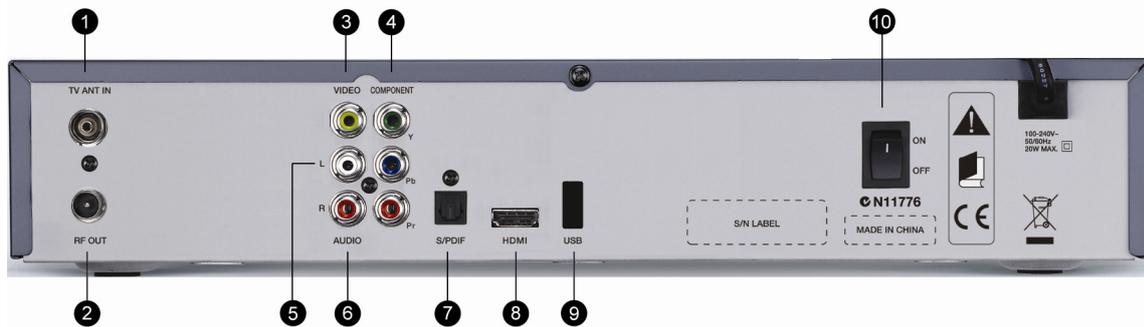


- | | | |
|----|----------------|---|
| 1 | STANDBY | Switches the receiver between stand-by mode and power-on mode |
| 2 | MENU | Displays the main menu, or closes the main menu if the menu is already open |
| 3 | SELECT | Selects the option or value shown on the menu |
| 4 | EXIT | Returns to the previous menu |
| 5 | CH▲ | Selects the next channel, or next option in a menu |
| 6 | CH▼ | Selects the previous channel, or previous option in a menu |
| 7 | VOL+ | Increases the volume, or moves between values in a menu |
| 8 | VOL- | Decreases the volume, or moves between values in a menu |
| 9 | STANDBY | Light: illuminated when in standby mode |
| 10 | LOCK | Light: illuminated when locked onto a channel or station |

The buttons on the front panel of the **SRT 5410** enable you to continue operating the unit should you lose the remote control or if the remote control runs out of power.

Although you can operate the **SRT 5410** equally with the remote control and with the front-panel buttons, all the procedures in this manual assume that you are using the remote control.

Rear panel



No.	Name	Connector	Function
1	TV ANT IN	IEC 169-24 female	Input from terrestrial antenna
2	RF OUT	IEC 169-24 female	Loop-through output to TV, VCR, etc.
3	Video RCA	RCA cinch (yellow)	Composite video connection
4	Y/Pb/Pr RCA A/V	RCA cinch (green/blue/red)	Component video connection (Y/Pb/Pr)
5	Audio (Left)	RCA cinch (white)	Left audio
6	Audio (Right)	RCA cinch (red)	Right audio
7	S/PDIF	Fibre optic	Digital audio output (optical)
8	HDMI	HDMI cable	HDMI video-and-audio connection
9	USB	USB 2.0 A-type cable	Software upgrades
10	Power Switch	–	To turn unit on or off

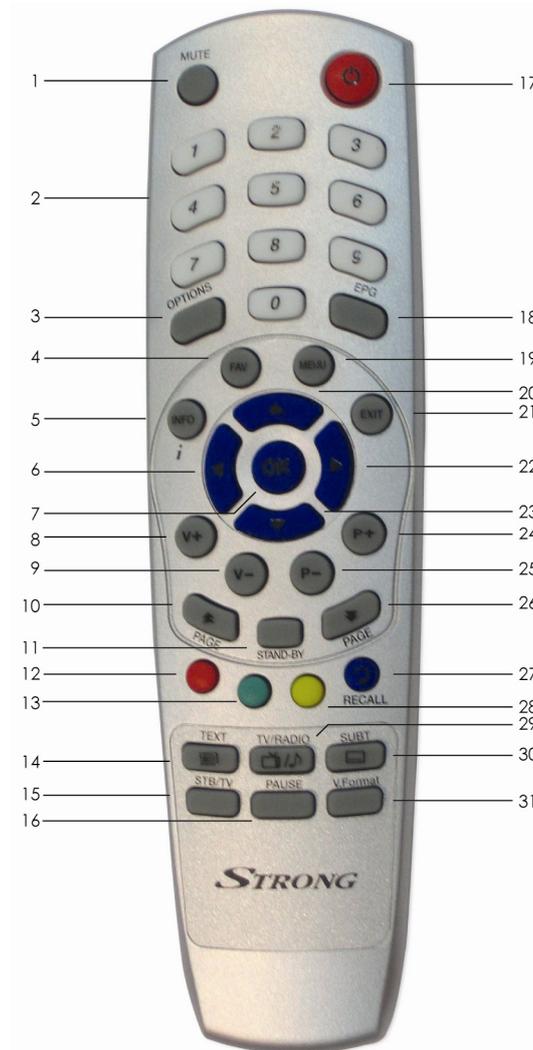


Note the presence of this symbol on the rear panel. This indicates that important operating and maintenance instructions accompany the product. These are set out in this manual. It is highly recommended that you read this manual thoroughly before using the product.



To reduce the risk of electric shock, do not remove any panel of the **SRT 5410**. Even when the unit is turned off, voltages may be present within it that are of sufficient magnitude to constitute a risk of electric shock.

Remote Control



- | | |
|---|--|
| <p>1. MUTE: To turn the sound on or off</p> <p>2. Numeric Buttons (0–9): To choose a channel directly, or to enter numeric information in a menu</p> <p>3. OPTIONS: To enable a quick choice of audio, teletext and subtitle options</p> <p>4. FAV: To display the favourites lists in viewing mode, and to select a favourite</p> <p>5. INFO: To show information about the current program</p> <p>6. ◀: To decrease volume, or to change an option or setting in a menu</p> | <p>7. OK: To show the channel list or to select an item (or confirm a choice) in a menu</p> <p>8. V+: To increase volume, or to change an option or setting in a menu</p> <p>9. V-: To decrease volume, or to change an option or setting in a menu</p> <p>10. PAGE [▲]: To move to the previous page if there is more than one page</p> <p>11. STANDBY: To switch to stand-by mode when the receiver is on</p> <p>12. [Red button] Performs different functions in different menus</p> |
|---|--|

- 13. [Green button] Performs different functions in different menus
- 14. **TXT:** To show or hide Teletext
- 15. **STB/TV:** To switch audio-visual input between the TV and the **SRT 5410** and vice versa
- 16. **PAUSE:** To freeze or unfreeze the screen
- 17. [Standby]: To switch between power-on and stand-by modes
- 18. **EPG (Electronic Program Guide):** To show the TV and radio program guide
- 19. **MENU:** To display the main menu, or return to normal viewing
- 20. **▲:** To choose the next channel, or change an option or setting in a menu
- 21. **EXIT:** To close the current menu and return to the previous menu or screen
- 22. **▶:** To increase volume, or change an option or setting in a menu
- 23. **▼:** To choose the previous channel, or change an option or setting in a menu
- 24. **P+:** To choose the next channel, or change an option or setting in a menu
- 25. **P-:** To choose the previous channel, or change an option or setting in a menu
- 26. **PAGE [▼]:** To move to the next page if there is more than one page
- 27. **RECALL:** To return to the previous channel. (Also performs various functions in the menus.)
- 28. [Yellow button] Performs different functions in different menus
- 29. **TV/RADIO:** To switch between TV and radio (and vice versa)
- 30. **SUBT:** To turn subtitles on or off
- 31. **V.Format:** To choose a video mode (1080i, 720p, 576p or 576i)

Installing the batteries in the remote control

1. Press down on the retaining catch on the lid of the battery recess and remove the lid.
2. Insert two AAA batteries into the recess.
Be careful to insert the batteries as shown in the diagram inside the recess.
3. Replace the lid over the recess and gently push down on the lid until it snaps firmly into place.

How to Connect

Refer to the diagram on page 8 for the location of the sockets identified by numbers in the following procedures.

Step 1: Connect to the antenna

Connect the antenna lead coming from your antenna wall plate to the ANT IN socket on the **SRT 5410** (socket 1).

Step 2: Choose an installation method

There are a number of methods of connecting the **SRT 5410**, depending on your preference and the connection types on your TV. These methods are labelled A, B and C below.

TIP: The various video connection options available provide differing degrees of video quality. In ascending order of quality, these connections are **Composite** (good), **Component** (better) and **HDMI** (best).

A: High Definition Multimedia Interface

If your TV has a HDMI socket, connect an HDMI cable between the HDMI socket on the **SRT 5410** (socket 8) and the HDMI socket on your TV.

A HDMI connection incorporates video and audio. You do not need to make separate connections for audio.

An HDMI cable is not provided with the **SRT 5410**.

B: Y/Pb/Pr (Component) using the supplied RCA blue–red–green lead

For Component video, connect to your TV with the supplied Y/Pb/Pr Component cable (with blue, red and green leads). Connect the leads between the Y, Pb and Pr sockets on the **SRT 5410** (socket group 4, taking care to match the colour of a lead with the colour of the socket), and the corresponding Component sockets on your TV. (The Component sockets on the TV have the same colour-coding.)

You will need to make separate connections for left and right audio via the audio sockets 5 and 6. This can be done using the supplied RCA cable. (Match the colour of the plugs with the colour of the sockets.)

C: CVBS (Composite) using the supplied RCA red–white–yellow lead

Using the appropriate socket colour-coding on sockets 3, 5 and 6, you can connect to your TV with the supplied RCA cable. This gives you CVBS (Composite Video) and MPEG-2 stereo audio.

For video, connect the yellow RCA lead between the yellow video socket (socket 3) on the **SRT 5410** and the corresponding socket on your TV.

For left audio, connect the white RCA lead between socket 5 on the **SRT 5410** and the corresponding socket on your TV.

For right audio, connect the red RCA lead between socket in socket 6 on the **SRT 5410** and the corresponding socket on your TV.

Step 3: Optional connections

Dolby Digital

Dolby digital bitstream audio S/PDIF can be achieved using a fibre optic cable. (This cable is not supplied.) The cable should be connected between socket 7 on the **SRT 5410** and the S/PDIF socket on your Dolby Digital decoder amplifier. See "Audio–Video settings" on page 41 for instructions on how to choose Dolby audio.

Looping Out (for VCR recording)

In order to watch one channel while recording another on a VCR, connect an RF cable (not supplied) between the RF OUT socket on the **SRT 5410** (socket 2) and the RF IN socket on your VCR. Note that VCR recordings are only analogue, not digital.

Getting Started

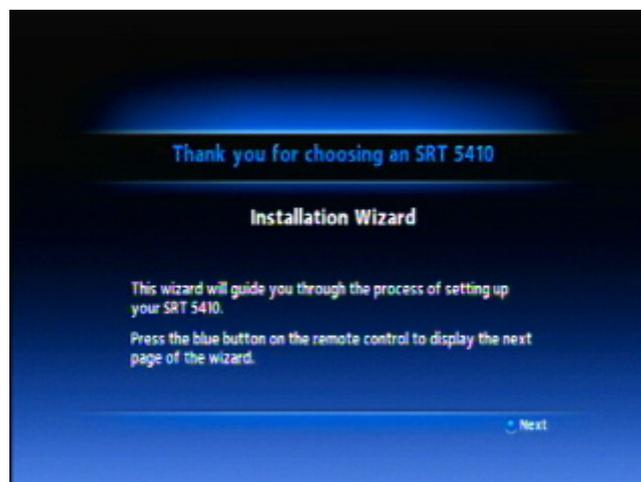
Once you have connected the **SRT 5410** to your antenna and to your television, you need to:

1. Install the batteries in the remote control (see page 10).
2. Turn on the television.
3. Plug the **SRT 5410** into mains power and turn on the power at the mains switch.
4. Turn on the **SRT 5410** using the power-on switch on the back of the receiver (number 10 in the diagram on page 8).
5. Select the video or AV input channel to which the **SRT 5410** is connected: this can be done by pressing the TV/AV or VIDEO button on your TV remote control. (Refer to your TV user's manual for instructions.)

The Strong Technologies banner page briefly appears, followed by the installation wizard (explained in the next section).

Installation wizard

The first time you turn on the **SRT 5410** (and whenever you reset the unit) the installation wizard appears. The installation wizard is a set of windows that enables you to easily specify all the important settings. The first window of the wizard is shown below.



How to use the wizard

- You move from window to window by pressing the blue button on the remote control.
- On most windows, you can step back to the previous window by pressing the smaller of the two red buttons on the remote control (near the bottom left of the remote control).
- Where a setting has a number of options, it is shown enclosed in angled brackets (as in <English>). If you need to choose an option other than the one showing, press ► or ◀ until the option you want is showing.

- If there are a number of settings on a window, you press ▼ or ▲ to move from one to another.

NOTE: The settings you choose using the installation wizard can be changed later from the menus.

Window 1: Thank You

The first window on the installation wizard is the welcome window (shown above). When you are ready to begin configuring your **SRT 5410**, press the blue button on the remote control. The **Language Setting** window appears.

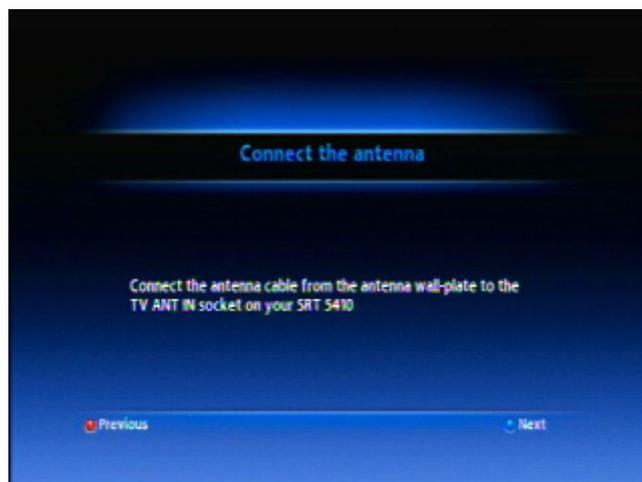


Window 2: Language Setting

On the **Language Setting** window you select the language for the menus you will see on your TV once you start using the **SRT 5410**.

1. If you need to choose a language other than the one showing, press ► or ◀ until the language you want is showing.
2. Press the blue button on the remote control to proceed to the **Connect Antenna** window.

Window 3: Connect Antenna



1. The antenna lead coming from your antenna wall plate needs to be connected to the ANT IN socket on the **SRT 5410** (socket 1 in the diagram on page 8 above). If you have not yet connected the **SRT 5410** to an antenna, do so now.
2. Press the blue button on the remote control to proceed to the **Connection Guide** window.

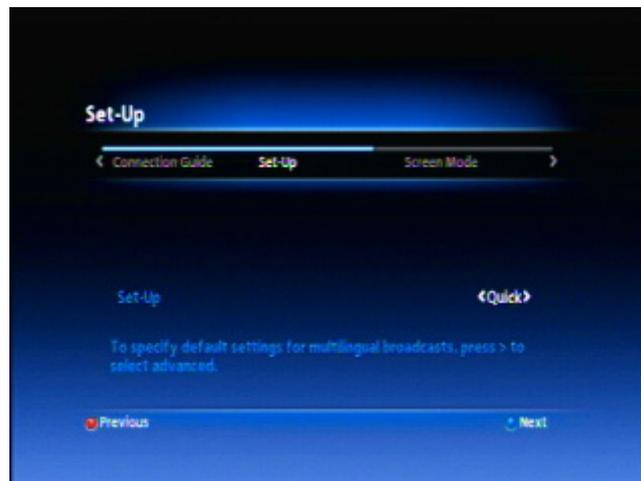
Window 4: Connection Guide



The **Connection Guide** window shows you what cables go into what sockets for various types of connection.

1. Press ► or ◀ to display information about each type of connection. If necessary, modify the connections you have already made to match the description shown in the screen. (The connection types are also described in “How to Connect” on page 11 above.)
2. Press the blue button on the remote control to proceed to the **Set-Up** window.

Window 5: Set-Up



1. If you want to choose the default languages for multi-lingual broadcasts, press ► or ◀ to select **Advanced**.
2. Press the blue button on the remote control.

If you chose **Advanced** as the installation method, the **Language Settings** window appears. Proceed with **Window 6** below.

If you chose the default installation method, the **Screen Mode** window appears. Proceed with **Window 7** below.

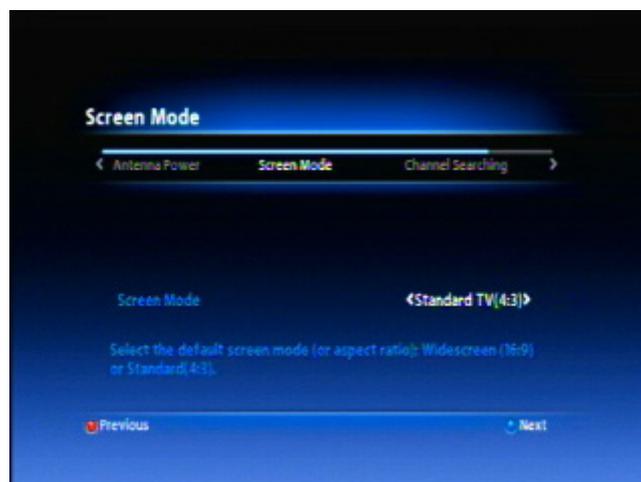
Window 6: Language Settings



On the **Language Settings** window, you can select your preferred audio and subtitle languages (first and second preference) for multi-lingual broadcasts.

1. If you want to change the default language for your first preference audio language, press ► or ◀ until the language you want is shown.
2. Press ▼ to select **Secondary Audio**.
3. If you want to change the default language for your second preference audio language, press ► or ◀ until the language you want is shown.
4. Press ▼ to select **Primary Subtitle**.
5. If you want to change the default language for your first preference subtitle language, press ► or ◀ until the language you want is shown.
6. Press ▼ to select **Secondary Subtitle**.
7. If you want to change the default language for your second preference subtitle language, press ► or ◀ until the language you want is shown.
8. Press the blue button on the remote control to proceed to the **Screen Mode** window.

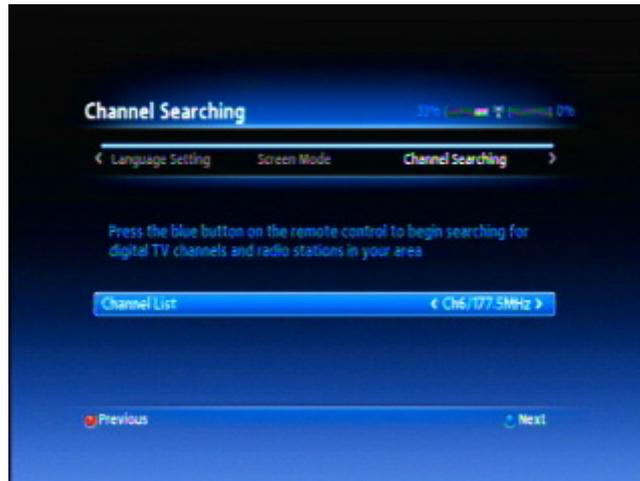
Window 7: Screen Mode



1. If you want to change the default screen mode from widescreen to standard (or vice versa), press ► or ◀ until the mode you want is shown.

2. Press the blue button on the remote control to proceed to the **Channel Searching** window.

Window 8: Channel Searching



1. With the **Channel Searching** window displayed, press the blue button on the remote control to begin scanning for digital TV channels and digital radio stations in your area.

As channels and stations are found, they are displayed on the **Channel Searching** window.



2. When the **SRT 5410** can find no more channels and stations, a message appears at the bottom of the window stating that channel searching is finished. Press the blue button on the remote control to save the search results and begin watching digital TV.

NOTE: You have now finished specifying enough settings for you to start watching digital TV. See "User Settings" starting on page 37 for instructions on how to specify additional settings.

Operation

Basic operations

Selecting a channel

There are a number of ways to select a channel:

- **Number pad on the remote control:** If you know the channel number, enter the number using the number keys on the remote control and then press **OK**. (If you don't press **OK**, the channel selected appears after 2 seconds.)

NOTE: The *SRT 5410* uses the Logical Channel Numbering system (LCN) by default. Some samples of primary LCN channel numbers are:

- 1 = Ten network and affiliates
- 2 = ABC
- 3 = SBS
- 7 = Seven network and affiliates
- 9 = Nine network and affiliates

Secondary channels can be selected by pressing the primary number followed by another number. (For example, pressing 2 gives you ABC1, and pressing 22 gives you ABC2.)

- **Channel list:** Press **OK** on the remote control. This displays the channel list (which shows the channel number and channel name of all the scanned channels). Press **▼** or **▲** on the remote control to select the channel you want, press **OK** and then press **EXIT**.



To list radio stations rather than TV channels, press **▶** or **◀** or press **TV/RADIO**.

If you have placed channels in a favourites list, the channels displayed on the channel list might only be those channels in a favourites list. (It depends on previous choices you have made.) To see the channels in another favourites list, or to see all the channels, press **◀** or **▶** until the channel you are interested in appears.

TIP: Press a **PAGE** button to quickly scroll through a long list of channels.

- **Favourites lists:** Press **FAV** on the remote control to see a list of favourites lists (that is, groups into which you have added one or more favourite channels or stations). Press **▼** or **▲** on the remote control to select a favourites list and then press **OK**. The first channel or station in that list begins to play. To move to another channel or station in that list, press **▼** or **▲** (or **P-** or **P+**). See “Favourites” on page 25 for instructions on creating a favourites list.
- **Scroll:** Press **▼** or **▲** (or **P-** or **P+**) on the remote control to scroll through the channels in channel number order. (You can also scroll through the channels in order by pressing the channel up and channel down buttons on the front panel of the *SRT 5410*.)
- **By EPG:** Press **EPG** on the remote control, select the channel from the electronic program guide (EPG), and press **EPG** again. The EPG is explained on page 30.
- **Previous channel:** Press the **RECALL** button (the blue button) to display the previous channel.

TIP: You can use the same techniques to select a digital radio station.

Adjusting the volume

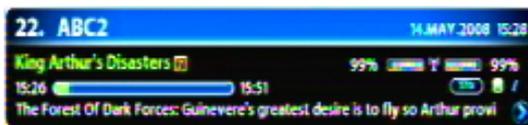
While you are watching a program, press **◀** or **▶** (or **V-** or **V+**) on the remote control to decrease or increase the volume respectively.

Turning off the sound (muting)

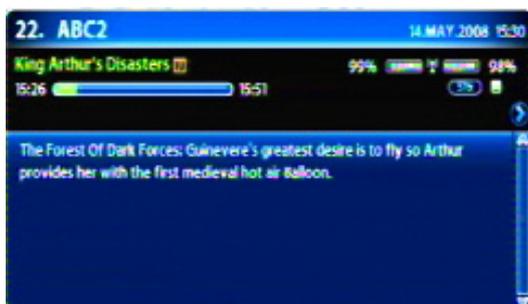
To turn off the sound altogether, press the **MUTE** button on the remote control (button 1 in the diagram on page 9). The mute icon is displayed on the screen. Press the **MUTE** button again to restore the sound.

Getting channel Information

- Press **INFO** on the remote control to display the information banner.



- With the information banner displayed, press **INFO** again to display more detailed information.



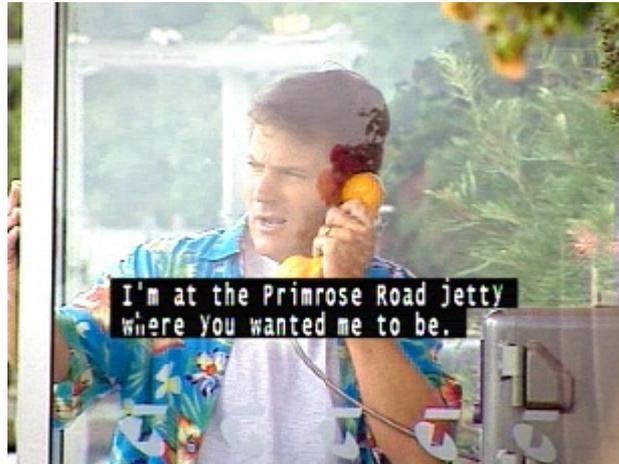
Press **EXIT** on the remote control to hide the information screen.

TV/Radio switching

Press **TV/RADIO** on the remote control to switch between TV channels and radio stations (or vice versa).

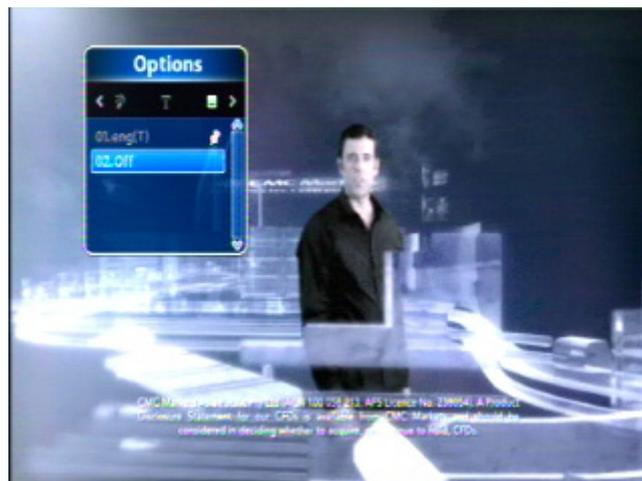
Closed captions

Closed captions are the spoken words written on the screen. This option is particularly useful for the hard-of-hearing.



To turn on closed captions (or turn them off):

1. Press the **SUBT** button on the remote control.
2. With the **OPTIONS** window displayed, press ▼ or ▲ until the language you want is highlighted (or until **Off** is highlighted, if you want to turn closed captions off).



3. Press **OK**.

Teletext

Teletext is a text-based data service. It is available only when the broadcasting signal carries such data.



1. Select a channel that is broadcasting teletext.
2. Press **TEXT** on the remote control.
3. Select a teletext page by pressing the corresponding number or colour button on the remote control.

Press **EXIT** on the remote control to cancel teletext.

Picture freeze

- Press **PAUSE** on the remote control to freeze the display.
- Press **PAUSE** again to resume normal viewing.

Organising channels

- The **Edit Channel** option on the **Channel Manager** menu enables you to lock, delete and rename channels.
- From the channel list—displayed by pressing **OK**—you to lock, delete and rename channels, and change the order in which channels appear on the channel list.

Locking channels

Locking a channel requires a password to be entered before that channel can be viewed.

NOTE: You can also lock radio stations.

To lock or unlock a channel or station:

1. Press **MENU** on the remote control.
2. If **Channel Manager** is not highlighted in the main menu at the left of the screen, press **▼** or **▲** until it is and then press **OK**.

3. If **Edit Channel** is not highlighted in the sub-menu at the right of the screen, press ▼ or ▲ until it is and then press **OK**.

The **Edit Channel** window appears.



4. If you want to lock (or unlock) radio stations rather than TV channels, press **TV/RADIO** on the remote control. A list of radio stations appears. Pressing **TV/RADIO** again redisplay the TV channels.
5. Press ▼ or ▲ until the channel or station you want to lock or unlock is highlighted.
6. Press the smaller red button on the remote control to lock (or unlock) the highlighted channel or station. An icon of a padlock appears beside the channel or station name to indicate that it is locked. (If you are unlocking a locked channel or station, the padlock icon disappears.)
7. If you want to lock or unlock another channel or station, repeat from step 5.
8. Press **MENU** or **EXIT**.

Deleting channels

You can delete channels that you are never likely to watch. If you want to re-instate a channel that you have deleted, you will need to rescan for it. See “Rescanning for channels and stations” on page 34 for instructions.

If you want to delete all channels at once, see “Clearing and resetting data” on page 43.

NOTE: You can also delete radio stations.

1. Press **MENU** on the remote control.
2. If **Channel Manager** is not highlighted in the main menu at the left of the screen, press ▼ or ▲ until it is and then press **OK**.
3. If **Edit Channel** is not highlighted in the sub-menu at the right of the screen, press ▼ or ▲ until it is and then press **OK**.

The **Edit Channel** window appears.



4. If you want to delete radio stations rather than TV channels, press **TV/RADIO** on the remote control. A list of radio stations appears. Pressing **TV/RADIO** again redisplay the TV channels.
5. Press **▼** or **▲** until the channel or station you want to delete is highlighted.
6. Press the green button on the remote control to mark the highlighted channel or station for deletion. An icon of a cross appears beside the channel or station name to indicate that it is to be deleted. (Press the green button again to unmark the highlighted channel or station.)
7. If you want to delete another channel or station, repeat from step 5.
8. Press **MENU** or **EXIT**. The channels and stations marked for deletion are now deleted.

Renaming channels and stations

1. Press **MENU** on the remote control.
2. If **Channel Manager** is not highlighted in the main menu at the left of the screen, press **▼** or **▲** until it is and then press **OK**.
3. If **Edit Channel** is not highlighted in the sub-menu at the right of the screen, press **▼** or **▲** until it is and then press **OK**.

The **Edit Channel** window appears.



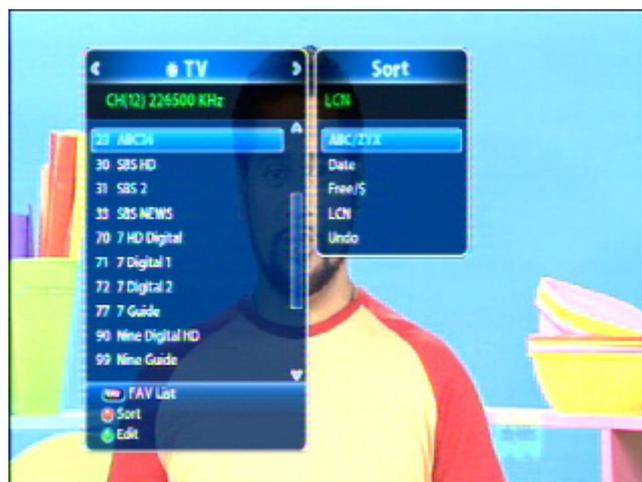
4. If you want to rename a radio station rather than a TV channel, press **TV/RADIO** on the remote control. A list of radio stations appears. Pressing **TV/RADIO** again redisplay the TV channels.
5. Press **▼** or **▲** until the channel or station you want to rename is highlighted.
6. Press the blue button on the remote control. The **Channel Name** on-screen keyboard appears.



7. Press ◀, ▶, ▼ or ▲ until the first character of the new name is highlighted, and then press **OK**. The highlighted character replaces the previous name near the top of the screen. Continue to move to and select characters until you have finished spelling the new name of the channel or station.
 If you select the wrong character, press the small red button on the remote control to delete it. To cancel the new name and restore the previous name, press **EXIT** and ignore the rest of this procedure.
8. When you have finished spelling out the new name, press the green button on the remote. The **Edit Channel** window re-appears, showing the new name of the channel or station.
9. If you want to rename another channel or station, repeat from step 5.
10. Press **MENU** or **EXIT**.

Re-sorting channels and stations

1. Press **OK**. The channel list is displayed.
2. To resort radio stations rather than TV channels, press **TV/RADIO**. (Pressing **TV/RADIO** again redisplay the TV channels.)
3. Press the smaller red button in the remote control. The **Sort** sub-menu appears.



The order in which the channels or stations are currently displayed is shown in green at the top of the sub-menu. (In the example above, the current order is by **LCN**—Logical Channel Numbering.)

4. Press ▼ or ▲ until the sort order you want is highlighted.

The sort order options available are:

- ABC/ZYX = alphabetical order (by name of channel or station)
- Date = by new or old channels or stations (where the date is determined by when you added them to your channel list (or found them through scanning))
- Free/\$ = by free-to-air or pay-for
- LCN = by the Logical Channel Numbering system

Except for the LCN option, each option has two sub-options. Once you have highlighted the main option, you press **OK** to choose between the sub-options. The sub-options are:

- ABC = ascending alphabetical order; ZYX = descending alphabetical order
- NEW = group by new channels or stations first; OLD = group by old channels or stations first
- FREE = group by free-to-air channels or stations first; \$ = group by pay-for channels or stations first

The sub-option you choose appears at the top of the **Sort** sub-menu. (Note that **CAS**—which stands for 'conditional access system'—appears when you choose \$.)

5. If you want to choose a sort sub-option (described in the previous step), press **OK**.
6. If you want to return to the sort option that was current at the time you opened the **Sort** sub-menu, select **UNDO** as your sort option.
7. Press **MENU**.
8. A message appears asking you to confirm that you want to save your changes. Press **OK** to confirm your changes (or press ◀ or ▶ to select **CANCEL** and then press **OK** to cancel your changes).
9. Press **MENU** to return to normal viewing.

Favourites lists

You can create up to four favourites lists of channels and then select a channel from a favourites list. This makes it easier to choose and switch between channels if there are many channels available in your area.

You display your favourites lists by pressing **FAV** on the remote control. You can then select a favourite by choosing a list and pressing **OK**. (If you have many channels in the list, you may have to press ▼ to reach the one you want.)

NOTE: You can also add radio stations to a favourites list.

Setting up a favourites list

To add a channel or station to a favourites lists, or to remove it from a favourites list:

1. Press **MENU** on the remote control.
2. If **Channel Manager** is not highlighted in the main menu at the left of the screen, press ▼ or ▲ until it is and then press **OK**.

3. If **Edit Favourites List** is not highlighted in the sub-menu at the right of the screen, press ▼ or ▲ until it is and then press **OK**.

The **Edit Favourites List** window appears.



4. If you want to add a radio station to a favourites list (or remove it), press **TV/RADIO** on the remote control. A list of radio stations appears. Pressing **TV/RADIO** again redisplay the TV channels.
5. Press **FAV** on the remote control. A list of the available favourites lists appears. By default, these are called Fav1, Fav2, Fav3 and Fav4 (but you can rename them).



6. Press ▼ or ▲ until the list you want to put channels into (or remove channels from) is highlighted, and then press **OK**. The name of the selected list appears at the top of the list at the right of the screen.
7. To add a channel or station to the selected list, press ▼ or ▲ until that channel or station is highlighted and then press **OK**. The channel or station is now listed at the right of the screen.



A channel or station that is already in a favourites list has an icon beside its name.

8. To remove a channel or station from the selected favourites lists, press ◀ or ▶ to move to the list at the right of the screen, press ▼ or ▲ until that channel or station is highlighted and then press **OK**. To remove other channels or stations, highlight them and press **OK**. If necessary, press ◀ or ▶ to move back to the full list of channels or stations at the left of the screen when you have finished adding or removing favourites.
9. If you want to add another channel or station to the same favourites list, repeat from step 7.
10. If you want to add a channel or station to another favourites list (or delete one from another list), repeat from step 5.
11. Press **EXIT**.
12. A message appears asking you to confirm that you want to save your changes. Press **OK** to accept (or press ◀ or ▶ to select **CANCEL** and then press **OK** to cancel your changes).
13. Press **MENU** to return to normal viewing.

Selecting a favourite to watch or listen to

1. Press **FAV** on the remote control to see a list of favourites lists.



Note that a favourites list will not be listed if it is empty.

2. Press ▼ or ▲ on the remote control to select a favourites list and then press **OK**.

The first channel or station in that list begins to play. To move to another channel or station in that list, press ▼ or ▲ (or **P-** or **P+**).

Renaming a favourites list

By default, the favourites lists are named Fav1, Fav2, Fav3 and Fav4; but you can rename them.

1. Press **MENU** on the remote control.
2. If **Channel Manager** is not highlighted in the main menu at the left of the screen, press **▼** or **▲** until it is and then press **OK**.
3. If **Edit Favourites List** is not highlighted in the sub-menu at the right of the screen, press **▼** or **▲** until it is and then press **OK**.

The **Edit Favourites List** window appears.



4. Press **FAV** on the remote control. A list of the available favourites lists appears.



5. Press **▼** or **▲** until the list you want to rename is highlighted, and then press **OK**. The name of the selected list appears at the top of the list at the right of the screen.
6. Press **◀** or **▶** to move to the list at the right of the screen. Note that the menu at the bottom of the screen changes.



7. Press the yellow button on the remote control. The on-screen keyboard appears.
8. Press ◀, ▶, ▼ or ▲ until the first character of the new name is highlighted, and then press **OK**. The highlighted character replaces the previous name near the top of the screen. Continue to move to and select characters until you have finished spelling the new name of the list.

If you select the wrong character, press the small red button on the remote control to delete it. To cancel the new name and restore the previous name, press **EXIT** and ignore the rest of this procedure.
9. When you have finished spelling out the new name, press the green button on the remote. The **Edit Favourite** window re-appears, showing the new name of the list.
10. If you want to rename another favourites list, repeat from step 4.
11. Press **EXIT**.
12. A message appears asking you to confirm that you want to save your changes. Press **OK** to confirm your changes (or press ◀ or ▶ to select **CANCEL** and then press **OK** to cancel your changes).
13. Press **MENU** to return to normal viewing.

Changing the order of channels or stations in a favourites list

When you select a favourites list, the first channel or station in it begins to play. You press ▼ or ▲ to play the next or previous channel or station. To change the order in which channels or stations play:

1. Press **MENU** on the remote control.
2. If **Channel Manager** is not highlighted in the main menu at the left of the screen, press ▼ or ▲ until it is and then press **OK**.
3. If **Edit Favourite** is not highlighted in the sub-menu at the right of the screen, press ▼ or ▲ until it is and then press **OK**.

The **Edit Favourite** window appears.

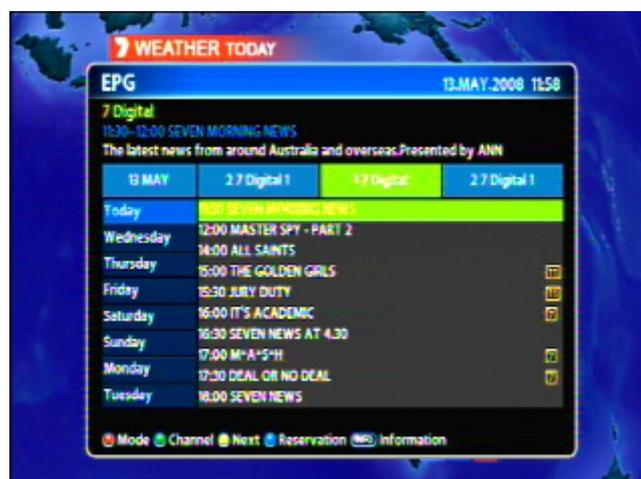
4. Press **FAV** on the remote control. A list of the available favourites lists appears.
5. Press ▼ or ▲ until the list you want to reorder is highlighted, and then press **OK**. The name of the selected list appears at the top of the list at the right of the screen.
6. Press ◀ or ▶ to move to the list at the right of the screen. Note that the menu at the bottom of the screen changes.



7. Press ▼ or ▲ until the channel or station whose position in the list you want to change is highlighted.
8. Press the green button on the remote control and then press ▼ or ▲. Note that with each press, the highlighted channel or station moves down or up in the list.
9. When the channel or station is in the correct position, press the green button again.
10. To change the position of other channels or stations, repeat from step 7.
11. Press **EXIT**.
12. A message appears asking you to confirm that you want to save your changes. Press **OK** to confirm your changes (or press ◀ or ▶ to select **CANCEL** and then press **OK** to cancel your changes).
13. Press **MENU** to return to normal viewing.

Electronic Program Guide (EPG)

Some providers broadcast information about their programs. This information is available on screen via an electronic program guide, displayed by pressing **EPG** on the remote control. An example is shown below.



Note that in the default view, shown in the example above, the current day's programs of the highlighted channel are listed. A brief description of the current program is displayed near the top of the screen.

NOTE: If a favourites list is currently selected, only the channels in that list will appear in the EPG. To see all channels in the EPG, select **TV** from the channel list before opening the EPG.

Selecting a channel

To see the day's programs of another channel, either:

- press ◀ or ▶ to move from one channel to another or
- press the green button on the remote control, press ▼ or ▲ until the channel is highlighted in the channel list and then press **OK**.

Displaying multi-channel information

The default view of the EPG provides program information about one channel. You can see program information about three channels at a time by pressing the smaller red button on the remote control.



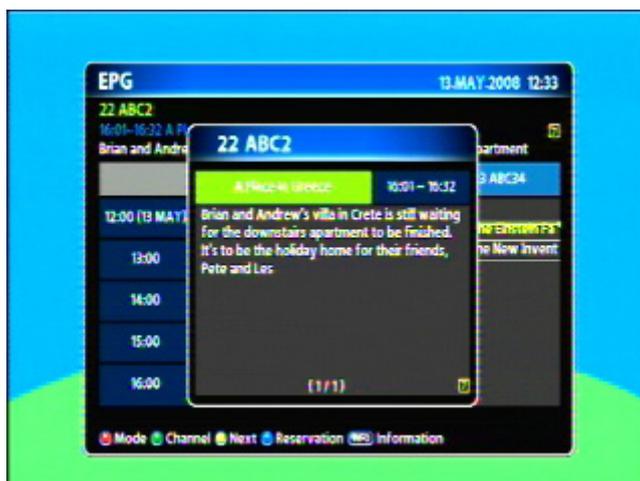
Press the red button again to switch back to single-channel mode.

Displaying the next day's programs

- Keep pressing ▼ until the program times pass midnight or
- Press the yellow key on the remote control

Displaying program information

1. If necessary, press ▼ or ▲ until the program you want information about is highlighted.
2. Press **INFO** on the remote control. An information window appears.



3. If there is more than one page of information about the program, press a **PAGE** button on the remote control to display the next page.
4. Press **INFO** to close the information window.

Automatically setting a timer

A timer enables you to specify a time at which a particular event occurs: turning, turning it off or changing the channels. You can automatically create a timer from the EPG.

1. If necessary, press ▼ or ▲ until the program you want to switch on or turn over to is highlighted.
If that program already has a timer set for it, a blue icon appears near the top right corner of the screen.
2. Press the blue button on the remote control. A timer is automatically set with the details of the selected program. The default timer mode is to turn on the TV. If you want the timer simply to change to the selected channel, press the blue button one more time. (You can cycle through the available timer modes—turn on, change channels and cancel timer—by repeatedly pressing the blue button.)

Timers are discussed in detail in “Using the timer” on page 32.

Watching a selected channel

1. If necessary, press ▼ or ▲ until the program you want to watch is highlighted.
2. Press **EPG**. The EPG closes with the selected program is playing.

Using the timer

You can set up to eight times at which the **SRT 5410** switches to specified channel (or station), turns on, or turns off.

There are two ways to set or cancel a timer: from the EPG and from the **User Settings** menu. See “Automatically setting a timer” on page 32 for instructions on how to set a timer from the EPG. The following section explains how to set a timer from the **User Settings** menu.

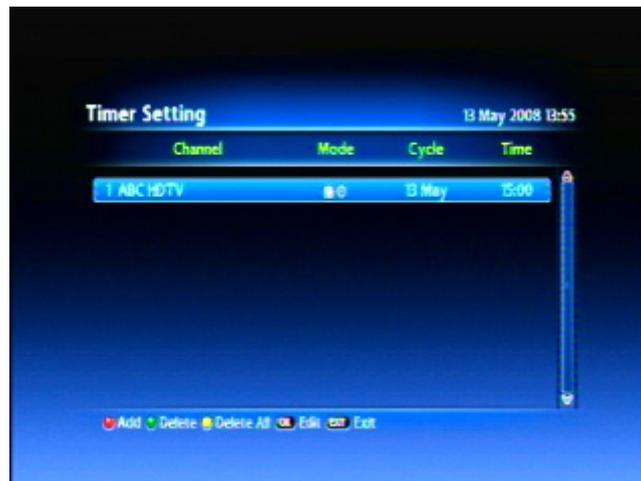
Setting or deleting a timer

1. Press **MENU** on the remote control.
2. If **User Settings** is not highlighted in the main menu at the left of the screen, press **▼** or **▲** until it is and then press **OK**.

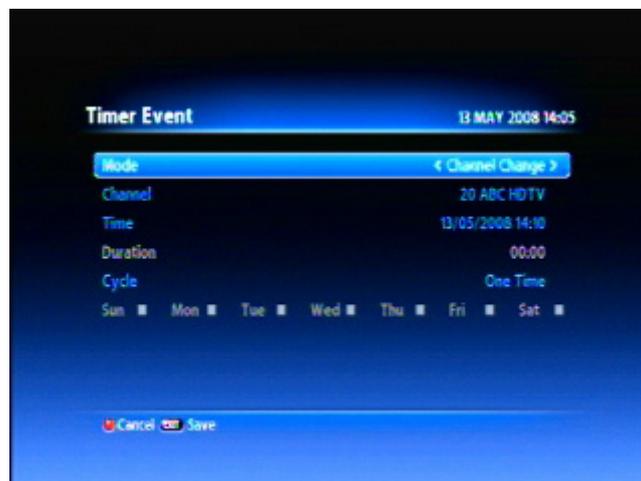
The **User Settings** sub-menu appears.

3. If **Timer** is not highlighted in the sub-menu, press **▼** or **▲** until it is and then press **OK**.

The **Timer Setting** window appears, listing any timers you have already set.



4. To delete all listed timers, press the yellow button on the remote key.
5. To delete a particular timer, press **▼** or **▲** until it is highlighted and then press the green button on the remote control.
6. To add a new timer, press the red button on the remote key. The **Timer Event** window appears.



7. The default timer mode is **Channel Change**. In this mode, the **SRT 5410** will switch to whatever channel you specify at the date and time you specify. The other modes available are **Power Off** and **Power On**. To switch modes, press **◀** or **▶** until the mode you want is highlighted.
8. Press **▼** to move to the **Channel** field and press **OK**.
9. Press **▼** or **▲** until the channel or station you want to come on at the specified time is highlighted and then press **OK**.

If the channel or station is not listed when you display the channel list, press **◀** or **▶** until the list displays it.

10. Press ▼ to move to the **Time** field.
11. Set the date and time that you want the event to occur by pressing ◀ or ▶ until the cursor is beneath a digit of the date or time you want to change. Then press the correct number button on the remote control. Repeat this for each digit of the date and time that you want to change.
12. Press ▼ to move to the next field.
13. If you chose **Power On** as the timer mode, you can set a time for how long the **SRT 5410** is to stay on. You do this in the **Duration** field. The default value in this field is 2:00 (that is, two hours). If you want to change this value, press ◀ or ▶ until the cursor is beneath a digit of the duration you want to change, and then press the correct number button on the remote control. Repeat this for each digit you want to change. Press ▼ when you are finished.
14. In the **Cycle** field, choose how often the event is to occur: **One Time**, **Every Day** or **Every Week**. (Press ◀ or ▶ to step through these options until the one you want is highlighted.)
15. Press **EXIT** to save the timer. It now appears in the **Timer Setting** list.
16. Repeat from step 6 if you want to set another timer.
17. Press **EXIT**.
18. A message appears asking you to confirm that you want to save your changes. Press **OK** to confirm your changes (or press ◀ or ▶ to select **CANCEL** and then press **OK** to cancel your changes).
19. Press **MENU** to return to normal viewing.

Rescanning for channels and stations

The **Channel Search** option on the main menu enables you to scan for—that is, detect—digital TV and radio stations available in your area. When you initially configured the **SRT 5410** scanning was done automatically. But you will need to rescan if new channels or stations become available, if you want to reinstate a channel or station you have deleted, or if you move to a new location.

There are two scanning options:

- **Automatic Search**

The **SRT 5410** will automatically search for all digital TV and radio stations it can detect and store their details.

- **Manual Search**

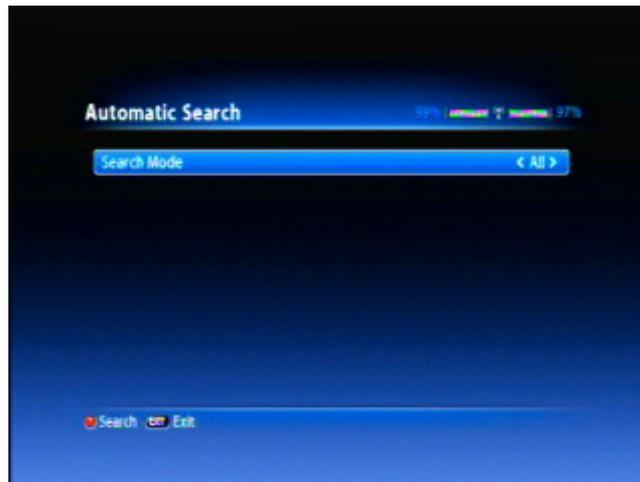
This option lets you search for a particular channel (or all channels from a specified broadcaster).

Automatic Search

1. Press **MENU** on the remote control.
2. If **Channel Search** is not highlighted in the main menu at the left of the screen, press ▼ or ▲ until it is and then press **OK**.

The **Channel Search** sub-menu appears.

3. If **Automatic Search** is not highlighted in the sub-menu, press ▼ or ▲ until it is and then press **OK**.
The **Automatic Search** window appears.



4. By default, the **SRT 5410** will search for all channels: free-to-air and those you must pay to watch. If you only want to search for free-to-air channels, press ◀ or ▶ to change the **Search Mode** field to **FTA Only**.
5. Press the smaller red button on the remote control. The **SRT 5410** begins scanning for channels and stations.
6. When scanning is finished, a message appears asking you to confirm that you want to save details of the channels and stations that have been detected. Press **OK** to save the details (or press ◀ or ▶ to select **CANCEL** and then press **OK** to reject the channels and stations).
7. Press **MENU** to return to normal viewing.

Manual Searching

NOTE: Automatic searching (described above) is suitable in most cases. You might use manual searching if you have deleted a channel and now want to access it again. In this case, you would just search for that particular channel.

To avoid a fruitless search, you may want to check the strength and quality of the signal beforehand. To do so, select **Signal Level** from the **Tools** menu and press ◀ or ▶ until the channel and frequency of the broadcast you will be searching for appears on the screen. The bars at the top of the screen indicate the strength and quality of the signal. Poor strength or quality indicate that it may be difficult to scan for that channel or that the reception might be too poor for you to comfortably watch the channel.

1. Press **MENU** on the remote control.
2. If **Channel Search** is not highlighted in the main menu at the left of the screen, press ▼ or ▲ until it is and then press **OK**.
The **Channel Search** sub-menu appears.
3. If **Manual Search** is not highlighted in the sub-menu, press ▼ or ▲ until it is and then press **OK**.
The **Manual Search** window appears.



4. In the **Channel List** field, press ◀ or ▶ until the appropriate channel number or frequency appears.
5. Press ▼ to move to the **Search Mode** field and then press ◀ or ▶ to select the appropriate search mode: **All** or **FTA Only** (that is, search for all channels from the specified broadcaster or just those that are free-to-air).
6. Press the smaller red button on the remote control. The *SRT 5410* begins scanning.
7. If the channel or channels can be found, the details are shown on the screen. A message appears asking you to confirm that you want to save details of the channels and stations that have been detected. Press **OK** to save the details (or press ◀ or ▶ to select **CANCEL** and then press **OK** to reject the channels and stations).

If the channel or channels cannot be found, a message appears to that effect. Press **OK** to close the message.

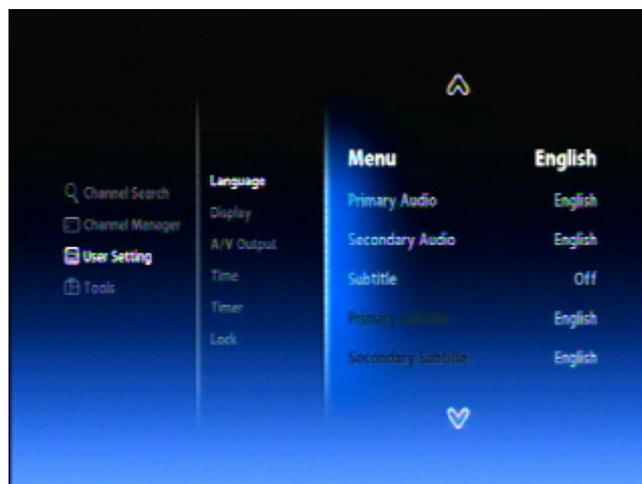
8. Press **MENU** to return to normal viewing.

User Settings

Choosing languages

1. Press **MENU** on the remote control.
2. If **User Settings** is not highlighted in the main menu at the left of the screen, press ▼ or ▲ until it is and then press **OK**. The **User Settings** sub-menu appears.
3. If **Language** is not highlighted in the sub-menu, press ▼ or ▲ until it is and then press **OK**.

You now have access to the language fields.



The options available are:

- **Menu**: the language of the menus that appear on the screen as you use the **SRT 5410**.
- **Primary Audio**: your first preference for the audio language in multi-lingual broadcasts.
- **Secondary Audio**: your second preference for the audio language in multi-lingual broadcasts.
- **Subtitle**: used to turn closed captions on or off.
- **Primary Subtitle**: your first preference for the language of closed captions.
- **Secondary Subtitle**: your second preference for the language of closed captions.

Note that the primary and secondary subtitle fields are only available if closed captions are on.

4. Press ▼ or ▲ until a language option you want to change is highlighted, and then press **OK**.
5. For all options other than **Subtitle**, a sub-menu of languages appears. Press ▼ or ▲ until the language you want is highlighted and then press **OK** and **EXIT**.
6. If you chose **Subtitle**, the **Subtitle** window appears. To turn on closed captions, press ▼ or ▲ until **TEXT** or **DVB** is highlighted, and then press **OK** and **EXIT**.
7. If you want to make other language selections, repeat from step 4.
8. Press **MENU**, and then click **OK** when asked if you want to save the changes.

Setting display options

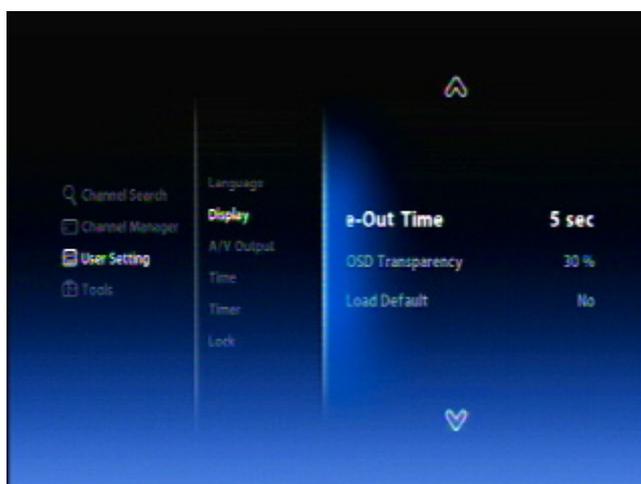
You can set how long information panels stay on the screen before they fade-out and how transparent menus and information panels are to be. You can also restore the default settings after you have made changes.

1. Press **MENU** on the remote control.
2. If **User Settings** is not highlighted in the main menu at the left of the screen, press ▼ or ▲ until it is and then press **OK**.

The **User Settings** sub-menu appears.

3. If **Display** is not highlighted in the sub-menu, press ▼ or ▲ until it is and then press **OK**.

The **Display** sub-menu appears.



4. Press ▼ or ▲ until an option you want to change is highlighted.
5. Press **OK** to display a menu of values, press ▼ or ▲ to highlight the value you want, press **OK** and then **EXIT**.
6. If you want to change another option, repeat from step 4.

NOTE: If you changed a setting but want to restore it to its default value (that is, the value it had when the **SRT 5410** left the factory), select the **Load Default** option and set its value to **Yes**.

7. Press **MENU**, and then click **OK** when asked if you want to save the changes.

Setting the time

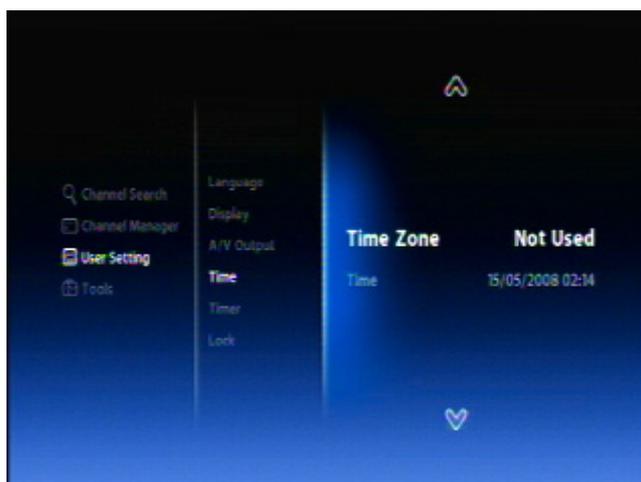
The time is set for you automatically once you have scanned and detected digital stations. If you find that the time is not correct, you can change it as follows:

1. Press **MENU** on the remote control.
2. If **User Settings** is not highlighted in the main menu at the left of the screen, press ▼ or ▲ until it is and then press **OK**.

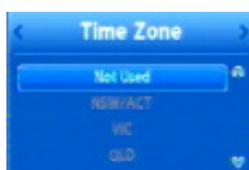
The **User Settings** sub-menu appears.

3. If **Time** is not highlighted in the sub-menu, press ▼ or ▲ until it is and then press **OK**.

The **Time** sub-menu appears.



4. With **Time Zone** highlighted, press **OK**. The **Time Mode** menu appears.



5. Press ▼ or ▲ until your state or territory is highlighted. (If no state or territory is appropriate, highlight **Not Used**.)
6. Press **OK** and then **EXIT**.
7. If you chose a state or territory, the correct current time is displayed on the screen and the **Time** field is disabled. Press **MENU**, and then click **OK** when asked if you want to save the change. You have finished setting the time and can ignore the rest of this procedure.
8. If you chose **Not Used** as the **Time Mode**, you will need to manually enter the date and time. Press ▼ to move to the **Time** field and then press **OK**.
9. On the **Time** window, enter the date and time using the number keys on the remote control.
10. Press **OK** and then **EXIT**.
11. Press **MENU**, and then click **OK** when asked if you want to save the change.

Setting security options

You can restrict access to the **SRT 5410** by specifying that a password must be entered in order to:

- view a program that has been given age rating by the television classification authorities (**Age Lock**)
- access the menus (**Menu Lock**)

To set security settings, or to change the password:

1. Press **MENU** on the remote control.
2. If **User Settings** is not highlighted in the main menu at the left of the screen, press ▼ or ▲ until it is and then press **OK**.

The **User Settings** sub-menu appears.

3. If **Lock** is not highlighted in the sub-menu, press ▼ or ▲ until it is and then press **OK**.
4. Enter the password.

If you have not changed the default password, the password is **0000**.

The **Lock** window appears.



5. If you want to set an age lock—thus requiring the password to be entered before any age-rated program can be viewed—press ◀ or ▶ to change the **Age Lock** field to **Yes**. Otherwise, press ▼ to move to the **Change Password** field and continue from step 7.
6. If you set an age lock, press ▼ to move to the **Age Limit** field and then press ◀ or ▶ to select the age such that any program with a higher age rating can only be viewed if the password is entered. You can choose an age between 7 and 18. When you have chosen an age, press ▼ to move to the **Change Password** field.
7. If you want to change the current password, enter the current password in the **Change Password** field. The current password is either:
 - **0000** if you have not set a password before (**0000** is the default factory setting); or
 - whatever password was last set for the **SRT 5410**.
8. If you have chosen to change the password, the **New Password** option will be highlighted. Enter a new 4-digit password using the numeric keys on the remote control.
9. If you have chosen to change the password, the **Confirm Password** option will now be highlighted. Enter the same password you entered in the previous step.
10. If you want to lock access to menus unless the password is entered, press ◀ or ▶ to change the **Menu Lock** field to **Yes**.
11. Press **EXIT**, and then click **OK** when asked if you want to save the changes.
12. Press **MENU** to return to normal viewing.

To cancel a lock

Follow the procedure in the previous section, changing the value of the **Age Lock**, **Menu Lock** or both to **No** as required.

Audio–Video settings

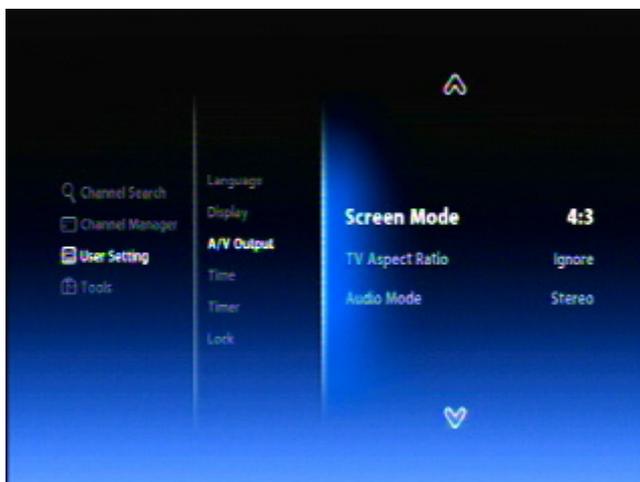
You can set the screen mode to 4:3 or 16:9, the aspect ratio to letterbox, pan–scan or combined, and the audio mode to stereo or multichannel. (For Dolby Digital audio, choose multichannel.)

1. Press **MENU** on the remote control.
2. If **User Settings** is not highlighted in the main menu at the left of the screen, press ▼ or ▲ until it is and then press **OK**.

The **User Settings** sub-menu appears.

3. If **A/V Output** is not highlighted in the sub-menu, press ▼ or ▲ until it is and then press **OK**.

The **A/V Output** sub-menu appears.



4. Press ▼ or ▲ until an option you want to change is highlighted.
5. Press **OK** to display a menu of values, press ▼ or ▲ to highlight the value you want, press **OK** and then **EXIT**.
6. If you want to change another option, repeat from step 4.
7. Press **MENU**, and then click **OK** when asked if you want to save the change.

NOTE: Another video setting—the video format or mode—can be set using the remote control. To change the video mode, press **V.Format** on the remote control and choose the mode you want: 1080i, 720p, 576p or 576i.

System Maintenance

You can upgrade the software in your **SRT 5410** as new versions become available. Information about the current version (and information about the hardware) is available from the menu to help you determine if you need to upgrade. This information might also be useful if you need to obtain technical support from Strong Technologies.

You can also reset the **SRT 5410**, either by:

- clearing all the channels and stations or
- clearing all channels, stations, preferences and other user settings (thereby restoring the unit to the default settings it had when it left the factory).

System information

To display system information about your **SRT 5410**, such as the model number, software version, hardware version and so on:

1. Press **MENU** on the remote control.
2. If **Tools** is not highlighted in the main menu at the left of the screen, press **▼** or **▲** until it is and then press **OK**.

The **Tools** sub-menu appears.

3. If **System Info.** is not highlighted in the sub-menu, press **▼** or **▲** until it is and then press **OK**.

The **System Info.** window appears.



Make a note of the information on this window if you are intending to contact Strong Technologies for technical support.

4. Press **EXIT** to return to the **Tools** sub-menu or **MENU** to return to normal viewing.

HDMI information

If you are using an HDMI cable to connect to your TV, you can get information about the connection by selecting **HDMI information** from the **Tools** menu.

Software upgrades

If a new version of the *SRT 5410* software becomes available, you can download the software to your PC and then transfer it to your *SRT 5410*. You will need a USB memory stick (not supplied with the *SRT 5410*). Watch the Strong Technologies website for announcements of software upgrades.

1. Once you have obtained an upgrade file, transfer it to a USB memory stick and insert the stick in the USB port on the rear of the *SRT 5410* (socket 9 in the diagram on page 8) and your PC.
2. Press **MENU** on the remote control.
3. If **Tools** is not highlighted in the main menu at the left of the screen, press **▼** or **▲** until it is and then press **OK**.

The **Tools** sub-menu appears.

4. If **S/W Upgrade** is not highlighted in the sub-menu, press **▼** or **▲** until it is and then press **OK**.
5. The **USB Upgrade** sub-menu appears. Press **OK** to display the **USB Upgrade** screen.



6. Press **▼** or **▲** until the upgrade file is highlighted and then press **OK**.

The upgrade process will take a few minutes, and then you will be returned to normal viewing.

Clearing and resetting data

You can reset the *SRT 5410*, either by:

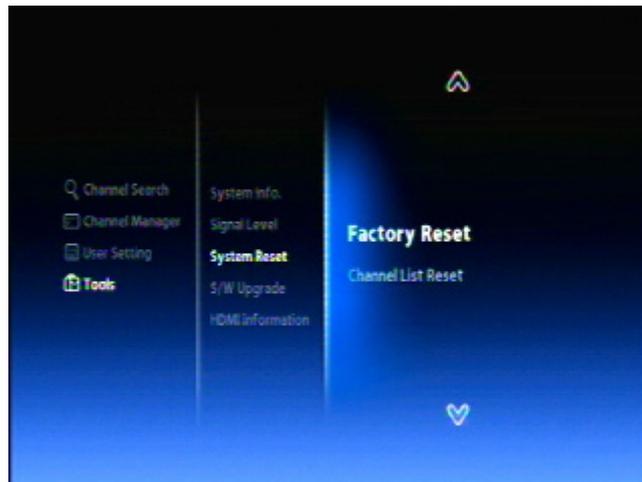
- clearing all the channels and stations or
- clearing all channels, stations, preferences and other user settings (thereby restoring the unit to the default settings it had when it left the factory).

1. Press **MENU** on the remote control.
2. If **Tools** is not highlighted in the main menu at the left of the screen, press **▼** or **▲** until it is and then press **OK**.

The **Tools** sub-menu appears.

3. If **System Reset** is not highlighted in the sub-menu, press **▼** or **▲** until it is and then press **OK**.

The **System Reset** sub-menu appears.



4. Select the type of reset:

- To return the **SRT 5410** to its factory settings (thus erasing all channel and station information and settings you have added), highlight **Factory Reset** and press **OK**.
- To clear all the channels and stations, but keep your user settings, highlight **Channel List Reset** and press **OK**.

5. A warning message appears advising you of what will be deleted if you continue. To continue, press ◀ or ▶ to select **OK** and then press **OK** on the remote control (or press **OK** when **Cancel** is highlighted to cancel your changes).

6. If asked, enter the password. A further message appears asking you if you are sure you want to proceed. To continue with the reset, make sure **OK** is highlighted and then press **OK** on the remote control.

If you selected **Factory Reset**, the installation wizard appears. For help with the wizard, see "Installation wizard" on page 13.

If you selected **Channel List Reset**, the **Channel Search** sub-menu appears. If you want to continue using your **SRT 5410**, you will need to rescan for channels. For help, see "Rescanning for channels and stations" on page 34.

Troubleshooting

There may be a number of causes of abnormal operation. Occasionally receivers can hang (just as a PC will do from time to time). In this case, you should disconnect it from mains power, wait 30 seconds and then reconnect it to mains power. If the unit still does not operate correctly, refer to the following table for the indicated problem and likely solution.

Symptoms	Possible causes	Solution
Indicators on front panel do not light up	AC power cord is not connected	Check that the power cord is plugged into the wall socket. Make sure the power switch is on.
No picture and sound	The cables connecting the TV and the receiver are not properly connected	Make sure that the correct cable is connected between the TV and the receiver, and that the antenna is connected.
	The TV mode is not correct	Check that the correct video or AV input has been selected on your TV.
Picture and/or audio glitch	Insufficient signal strength	Check that the antenna cable is securely plugged in and that the signal is adequate.
	Electrical interference	Check that all antenna cabling is quad-shielded.
No sound	The receiver or TV is in mute mode	Press the MUTE button on the receiver or on the TV.
	Initial volume level has not been set on your TV	Select the desired TV volume level using the TV remote control.
Remote control is not working	Batteries not inserted	Insert batteries
	Batteries are flat	Change the batteries in the remote control.
	Remote control is outside the range of operation	Aim the remote control directly at the receiver.

For Technical Assistance: Please call our Technical Support Help Line on **1 800 820 030**

For General Enquiries: Please email us at **techau@strong-technologies.com**

Product Return Tracking: If you need to send your receiver to Strong Technologies for repair, please keep a record of the unit's **serial number** (shown on the rear panel). This will ensure ease of tracking and identification while the unit is being repaired.

Specifications

Tuner & Channel Decoder	Input Connector Antenna	IEC 169-2 Female
	Output Connector – RF Loop Out	IEC 162-2 Male
	Frequency range	174MHz–862MHz
	Input impedance	75Ω
	Signal level	–77.5 to –20 dBm
	Centre IF Frequency	4.571 Mhz
	IF bandwidth	7 and 8 MHz (switchable)
	Waveform	OFDM
	Carrier Mode	2k and 8k hierarchical/non hierarchical
	Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
	Guard Interval	1/4, 1/8, 1/16, 1/32
	MPEG Transport Stream	Standard
Rate		Up to 15 Mbps
Video Decoding	Profile Level	MPEG-2 MP@HL; MPEG-4 Part 10 AVC/H.264 HD MP@L4.0
	Input Rate	Max 31 Mbps/27 Mbps
	Aspect Ratio	4:3, Letter Box, 16:9, Pan & Scan
	Video Resolution	1920 x 1080i, 1280 x 720p, 720 x 576p, 720 x 576i
Audio Decoding	Standard	MPEG Layer 1,2; Dolby AC-3, PCM and DTS
	Sampling Rate	32, 44.1, 48KHz
	Channels	Single, Dual Mono, Stereo, Joint Stereo, Dolby Digital bit-streams
Main System	Main Processor	ST40 32-bit Superscaler RISC CPU_400 Dhrystone 2.1 MIPS@266MHz
	Memory	Flash Memory: 8MB; SDRAM: 128MB
Audio & Video In/Out	Video Component	Y / Pb / Pr Component YUV
	HDMIS	HDMI 1.2 connector ((with HDCP copy protection)
	Video Composite	RCA/Cinch, Video Output (CVBS)
	S/PDIF	Optical Digital Audio Output
Power Supply	Input Voltage	AC 90–250V ~ 50/60Hz
	Power Consumption	Maximum 30Watts(Under 2Watts in Standby Mode)
	Type	SMPS(Switching Mode Power Supply)
Physical	Dimensions	: W 360mm x D 230mm x H 63mm
	Net Weight	2Kg
	Operating Temperature	5°C–50°C
	Storage Temperature	–40°C–65°C



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