

SRT 5490

**Digital Terrestrial Television Receiver
USER' S MANUAL**



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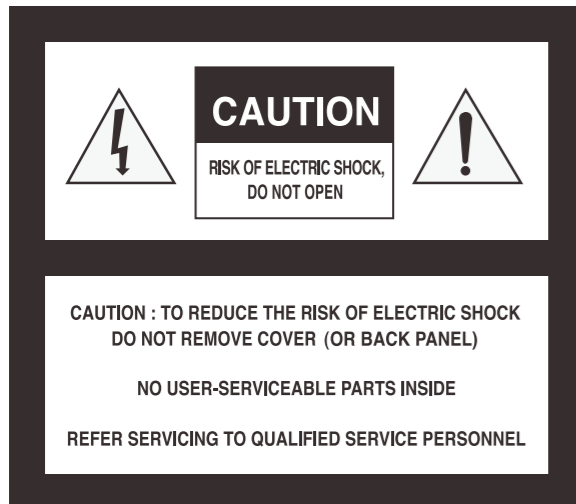
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Strong Technologies Pty Ltd., 2006





This symbol is intended to alert the user to the presence of insulated 'dangerous voltage' within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock



This symbol is intended to alert the user to the presence of important operating and maintenance instructions accompanying this product.

Important Safety Instructions

- All safety and operating Instructions should be read before the product is operated.
- All warnings on the product and in the operating instructions should be adhered to.
- Do not use this apparatus near water.
- Clean only with a dry cloth. Do not use liquid cleaners or aerosol cleaning products.
- Do not block any of the ventilation openings.
- Do not install near any heat sources.
- Do not defeat the safety purpose of the polarised or grounding-type plug.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time. Refer all servicing to qualified service personnel.
- The SRT 5490 should be installed 10cm away from a wall to allow for the Power Switch and Power Lead on the back panel.

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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 to Australian Specifications.

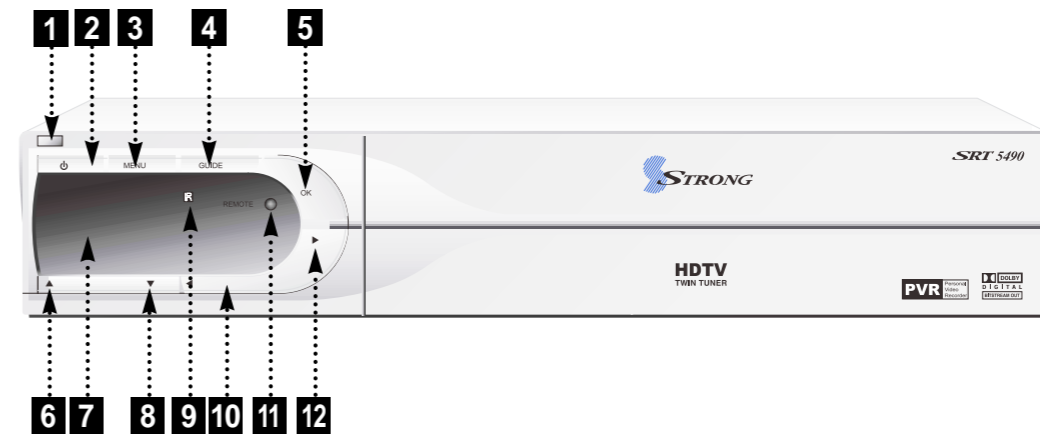
Your new receiver will enable you to experience superior picture and sound quality, wide screen images, extra channels plus a variety of new features.

- For a complete listing 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 tech2@strong-technologies.com
- For technical assistance, please call our Technical Support Help Line 1 800 8200 30

Main Features

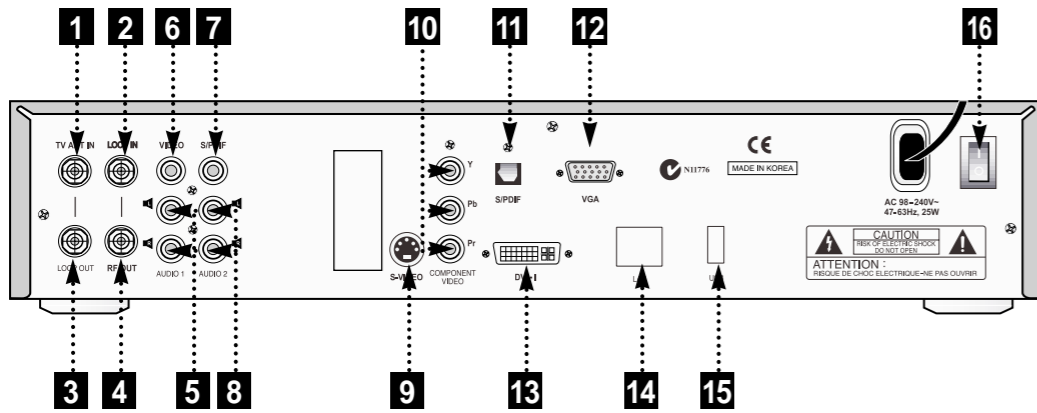
- 250 GB Hard Disk Drive
- 30 Hours HD or 125 Hours SD Recording
- Simultaneous Recording and Playback
- Time Shift
- Timer Recording
- Picture-in-Picture
- USB 1.1 for PC Interface & File Transfer
- Lan Port for PC Communication & File Transfer
- MP3 Playback & JPEG Viewing
- 1080i / 720p / 576p / 576i Video Formats
- Format change by Remote Control
- Simultaneous HD & SD Outputs
- DVI-I Digital Video Interface
- Component Video (Y, Pb & Pr) Outputs
- RGB-HV / RGB Component (VGA) Output
- Dolby Digital Optical & Coaxial Outputs
- 16:9 Full screen, 4:3 Letterbox & Full screen
- Zoom Mode by Remote Control Hot Key
- Auto & Manual Channel Search
- Favourite Channel List
- Electronic Program Guide
- Pre-programmed STB/TV Remote Control
- Closed Captions & Teletext
- DVB/T, MPEG-2 Compliant
- COFDM Demodulation Main Features

Front Panel Control Functions



- | | |
|---|---|
| 1. STANDBY LED
Standby mode LED | 9. IR
Infrared remote control sensor. |
| 2. ⏻
Turn on/off power | 10. VOL DOWN
Volume .up. adjustment |
| 3. MENU
To access the main menu or to go back upper level. | 11. LAMP
Light on operation of RCU. |
| 4. GUIDE
To view program information | 12. VOL UP
Volume .down. adjustment |
| 5. OK
Used to select item and complete numeric value entry or modify values in the menu entry. | |
| 6. CH UP
Move cursor up from set up menu or channel up. | |
| 7. DIGIT LED DISPLAY
This will display the current channel or certain programming functions when using the menus. | |
| 8. CH DOWN
Move cursor down from set up menu or channel down. | |

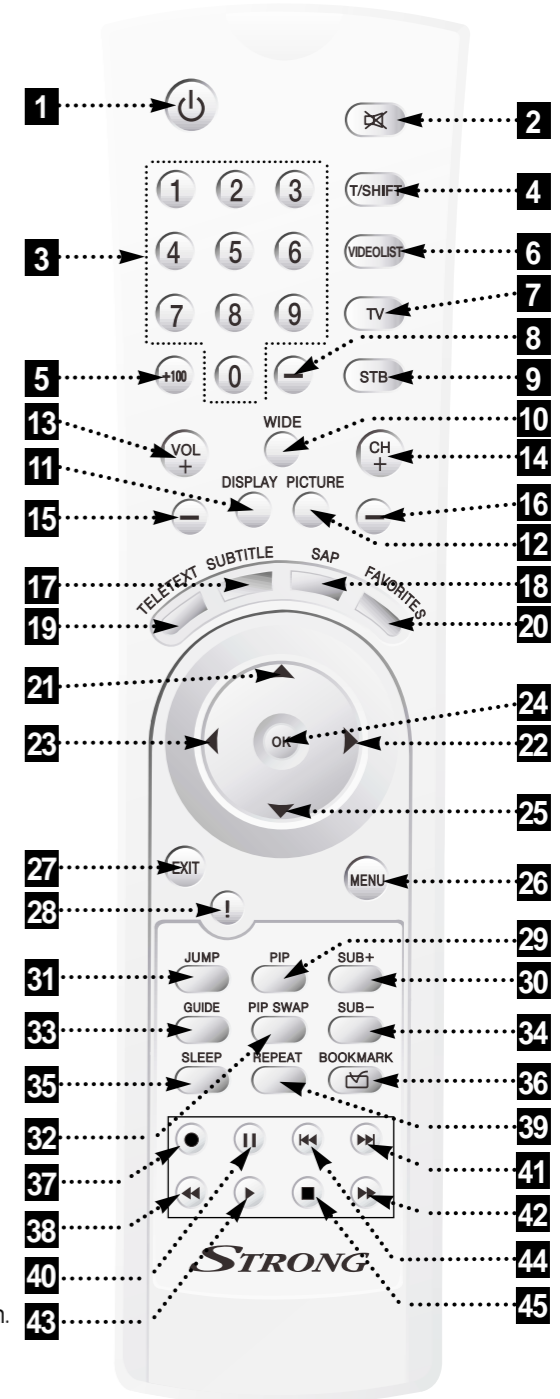
Real Panel Connections



- 1. TV ANT IN**
TV ANT IN for connecting the STB to a terrestrial antenna using a coaxial cable.
 - 2. LOOP IN**
LOOP IN for connecting the STB to a terrestrial antenna using a coaxial cable or a loop from LOOP OUT
 - 3. LOOP OUT**
To Connect to another set top box, recording device e. g. VCR / TV. It can be used as a looping function to a second tuner.
 - 4. RF OUT**
To Connect to another set top box or recording device e. g. VCR / TV.
 - 5. AUDIO - L (WHITE) R(RED)**
Left and Right RCA audio jack for connecting the STB to your television audio input using standard RCA cable.
 - 6. VIDEO (YELLOW)**
Composite video jack for connecting the STB to your television using standard RCA cable.
 - 7. S/PDIF COAXIAL**
Digital audio output for connecting the STB to your AV receiver or Dolby Digital decoder using digital coaxial cable. Set this output to AC-3 Dolby Digital or Stereo PCM in the STB setup menu or by the SAP button on the remote control.
 - 8. AUDIO - L (WHITE) R(RED)**
Left and Right RCA audio jack for connecting the STB to your television audio input using standard RCA cable.
 - 9. S-VIDEO**
S-video jacks for connecting the STB to an S-Video compatible VCR or television.
 - 10. Y, PB, PR OUT (COMPONENT)**
Component RCA video jacks for connecting the STB to your television using the supplied coaxial cables.
 - 11. S/PDIF OPTICAL**
Digital audio output for connecting the STB to your AV receiver or Dolby Digital decoder using optical cable. Set this output to AC-3 Dolby Digital or Stereo PCM in the STB setup menu or by the SAP button on the remote control
 - 12. VGA OUT**
RGB/VGA component output for connecting the STB to a television using a VGA cable.
 - 13. DVI- I OUT**
Digital video signal and RGB component output for connecting the STB to a television using a DVI cable.
- NOTE : THE Y, PB, PR, VGA AND DVI-I OUTPUTS CARRY THE SAME R/G/B SIGNALS USING DIFFERENT PHYSICAL CONNECTORS. CHOOSE ONLY ONE – DO NOT USE BOTH AT THE SAME TIME.
- 14. LAN**
LAN(10/100Mbps) port for connecting the STB to a PC using a LAN cable
 - 15. USB**
USB 1.1 port for connecting the STB to a USB storage using a USB cable
 - 16. AC POWER INLET**
Inlet to connect the STB to a standard power wall outlet.

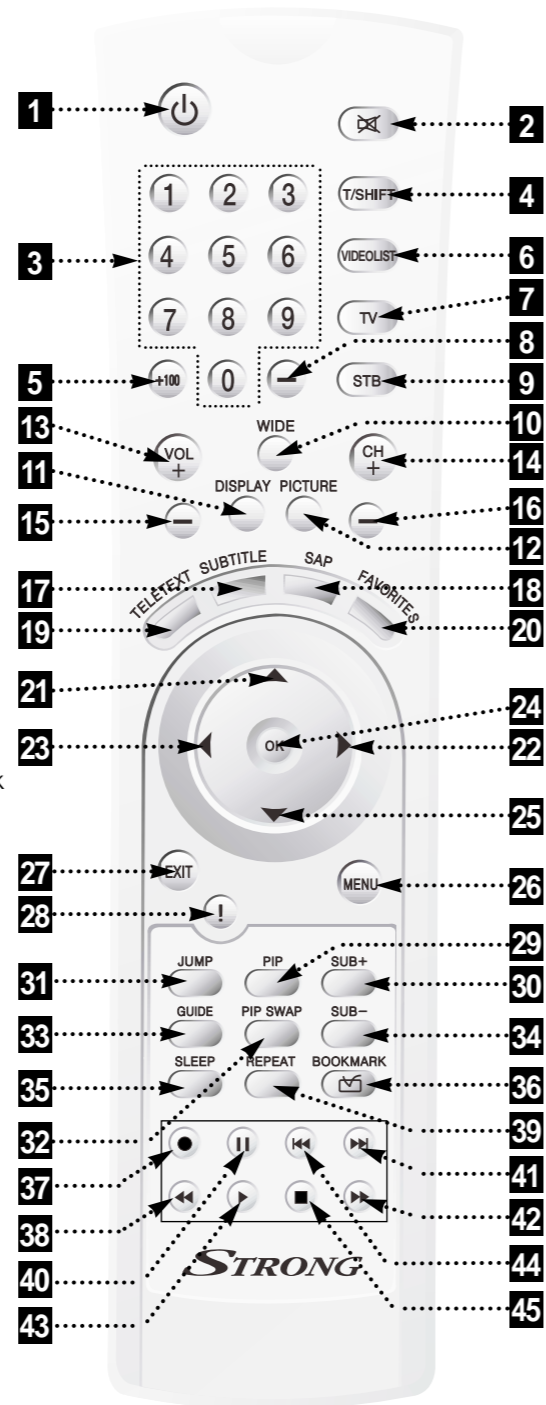
Remote Control Functions

- 1. POWER**
Switch the STB between operation and standby mode.
- 2. MUTE**
Turns the audio on and off. Line L, R output is not affected.
- 3. 0 ~ 9**
Used to select channel directly or set setup values like password.
- 4. T/SHIFT**
Timeshift On/Off
- 5. +100**
Select Channel number
- 6. VIDEOLIST**
To watch the list of stored programs on HDD.
- 7. TV**
Switch remote control unit to television control mode.
- 8. DASH BUTTON (-)**
Not Used
- 9. STB**
Switch remote control unit to STB control mode.
- 10. WIDE**
Aspect Ratio selection of 16:9 and 4:3
- 11. DISPLAY**
Used to select 1080i/720p/576p/576i video mode directly.
- 12. PICTURE**
Zoom mode selection including preview mode on picture view (not for Composite or S-Video)
- 13/15. VOL + / VOL-** Used to volume up and down.
- 14/16. CH +/CH-** Used to change channel up and down.
- 17. SUBTITLE**
To turn Closed Captions on/off
- 18. SAP**
Select Audio Program Dolby Digital and PCM
- 19. TELETEXT**
Teletext
- 20. FAVORITES**
Used to change to next available Favourite program.
- 21/25. UP / DOWN**
Move cursor up / down from set up menu.
- 22/23. RIGHT/LEFT**
To navigate in program guide. Right button can be used as ENTER button.
- 24. OK**
To select item and complete numeric value entry or modify values in the menu entry.
- 26. MENU**
Used to select set up menu or to go back a level.



Remote Control Functions

- 27. EXIT**
To exit menu
- 28. !**
To select Information Panel.
- 29. PIP**
Turn on / off PIP function. (HD Outputs Only . not available when using S-Video and CVBS Composite)
- 30/34. SUB +/-**
Channel change for PIP
- 31. JUMP**
recall previous channel when watching live channel. Jump to next bookmark when playback is in progressing
- 32. PIP SWAP**
Switch main program and sub program.
- 33. GUIDE**
To view program guide.
- 35. SLEEP**
Display the sleep time. At the sleep time, enter standby mode automatically.
- 36. BOOKMARK**
Setting bookmark at current position when playback is in progressing.
- 37. RECORD**
Start direct recording
- 38. REW**
Fast rewind when the progress bar is displayed. Start reverse playback from timeshift live mode. Change the speed of reverse playback
- 39. REPEAT**
Use to playback repeat
- 40. PAUSE**
Pause the playback and live picture.
- 41. SKIP**
Move the position of playback to next position. Also used as page down button in list navigation.
- 42. FF**
Start fast forward or fast motion playback. Change the speed of forward playback.
- 43. PLAY**
Display the progress bar during time shifting or playback when no progress bar is currently displayed or start playback or return to normal speed from trick mode.
- 44. INVERSE SKIP**
Move the position of playback to a previous position. Also used as page up button in list navigation.
- 45. STOP**
Stop time shifting, playback or recording.



Connecting The SRT 5490

For connection of the SRT 5490 there are number of alternatives depending what is your preference and the connection types on your TV.

Please connect by either of the following methods:
 A. B. C. For High Definition VIDEO Signal
 D. E For Standard Definition VIDEO Signal

*** IMPORTANT : SD VIDEO PORTS SUPPORT ONLY 576i OF VIDEO DISPLAY MODE ONLY**

- F. Mandatory for Antenna connection
- G. Mandatory for Loop through connection
- H. Mandatory for LAN connection.
- I. Mandatory for USB connection.

Video Connections

A. CONNECTOR 10 : Y, PB, PR (COMPONENT - FOR HD)
USING SUPPLIED GREEN / BLUE / RED RCA LEAD

B. CONNECTOR 12 : VGA (FOR PC RGB SIGNAL- FOR HD)
YOU WILL NEED TO PURCHASE THIS LEAD SEPARATELY.

C. CONNECTOR 13: DVI-I (FOR HD)
YOU WILL NEED TO PURCHASE THIS LEAD SEPARATELY

D. CONNECTOR 9: S-VIDEO (Y/C) (FOR SD)
YOU WILL NEED TO PURCHASE THIS LEAD SEPARATELY

E. CVBS (COMPOSITE - FOR SD)
USING THE SUPPLIED YELLOW / WHITE / RED RCA LEAD
For this Standard Definition Composite Video connection, Audio is also included, this will be PCM Stereo.

Connector 6	VIDEO	RCA cinch	Connect to Video (Yellow) RCA of your TV (Yellow)
Connector 5(Up)	AUDIO Left	RCA cinch	Connect to audio (White) RCA of your TV (White)
Connector 5(DOWN)	AUDIO Right	RCA cinch	Connect to audio (Red) RCA of your TV (Red)

F. CONNECTING THE ANTENNA
CONNECT TV ANTENNA TO CONNECTOR 1 (AERIAL)

Connector 1	AERIAL	IEC169-2 female	Input from Antenna to Receiver
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G. CONNECTING THE LOOP THROUGH (FOR RECORDING)

Connector 2	AERIAL OR CONNECTING AERIAL	IEC169-2 female	Used to loop through cable Connect to the RF OUT(Connector 3)
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H. LAN(IEEE 802.3 10/100MBPS) FOR COMMUNICATION TO THE PC
YOU WILL NEED TO PURCHASE THIS LEAD SEPARATELY

Connector 14	10/100Mbps Ethernet	RJ45	Used to LAN cable Connect to the PC
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I. USB1.1 FOR COMMUNICATION TO THE USB MEMORY STICK OR PC
YOU WILL NEED TO PURCHASE THIS LEAD SEPARATELY

Connector 15	USB1.1	USB HOST	Used to USB cable Connect to the USB storage
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Audio Connections

PCM STEREO VARIABLE via Connector 5
USING SUPPLIED YELLOW / WHITE / RED RCA LEAD
(Other than when connecting for CVBS Composite, the Yellow RCA will not be required to be connected)

Connector 5(UP)	AUDIO Left	RCA cinch	Connect to audio RCA input (White) of your TV (White)
Connector 5(DOWN)	AUDIO Right	RCA cinch	Connect to audio RCA input (Red) of your TV (Red)

PCM STEREO VARIABLE via Connector 8
USING SUPPLIED YELLOW / WHITE / RED RCA LEAD
Other than when connecting for CVBS Composite, the Yellow RCA will not be required to be connected

Connector 8(UP)	AUDIO Left	RCA cinch	Connect to audio RCA input (White) of your TV (White)
Connector 8(DOWN)	AUDIO Right	RCA cinch	Connect to audio RCA input (Red) of your TV (Red)

DOLBY DIGITAL AUDIO
If you have a Dolby Digital Decoder Amplifier, you can connect to the amplifier by S/PDIF i.e either by Connector 7: Coaxial Cable or Connector 11 : Optical Cable. (Both leads need to be purchased separately). This connection will provide for Dolby Digital Output when broadcast to your decoder amplifier

Connector 7	S/PDIF Coaxial	Connect to the Coaxial input of your Amplifier
Connector 11	S/DIF Optical	Connect to the Optical input of your Amplifier

To Enable. Dolby Digital to be heard when transmitted within the broadcast stream, you will need to select Dolby Digital In the TV Set Up Menu or by the SAP button on the remote control

DOLBY DIGITAL BY MENU SYSTEM

- Press the Menu (Button 26) on the remote control then Main Menu Banner will be viewed listing 8 topics.
- Using Remote Control Up/Down Scroll Buttons, Scroll to Setup
- Push Remote Control OK Button (Button 24)
- Set Up banner will be viewed listing 5 topics
- Scroll to AUDIO and push OK button on the remote control
- Digital Audio banner will be viewed with right hand banner listing Digital Audio and PCM
- Scroll to Digital Audio and setting will be confirmed by a Blue dot.
- Push OK to confirm the setting
- Push EXIT to return to normal TV broadcasts

DOLBY DIGITAL BY SAP BUTTON OF THE REMOTE CONTROL

- Press the SAP button on the remote Control
- Digital Audio banner will be viewed with right hand banner listing Digital Audio and PCM
- Scroll to Digital Audio and setting will be confirmed by a Blue dot.
- Push OK to confirm the setting
- Push EXIT to return to normal TV broadcasts

CONNECT AC POWER CORD

- Connect the AC power cable of the SRT 5490 to a standard AC outlet.

Power On & Full Scan

Below list is the procedure to automatically scan to lock in all available channels.

Prior to this procedure it is important to note:

- In the Menu system of the SRT 5490, the default VIDEO setting is COMPONENT. If you require to connect by either VGA (RGB Monitor/RGB Component) or DVI, you will need to firstly connect by any of the other 3 Video methods listed above otherwise on first set up of Automatic Scan, VIDEO will not be seen on your display device.
- Once Automatic Scan has been completed, Video pictures will be available thus enabling you to select and view the Menu to change to your Video setting of either VGA or DVI.

POWER ON THE SRT 5490

- Turn the SRT 5490 ON. There is an ON/OFF Switch on the rear panel of the Receiver. (Located beside the main power cord of the receiver)
- The 7-segment LEDs will light.
- On the SRT 5490 Remote Control Press the Power button (Button 1) to turn on the STB.
- The Blue Power LED will turn off.

SETTING THE TELEVISION INPUT SOURCE

- Press the Power On of Television Remote Control unit to turn on the television. Allow the television to warm up. Press TV/Video button of television remote control unit to select the appropriate external video input that the SRT 5490 is connected to.
- When Power is ON, you will view a Strong Image Banner on the TV Screen for a few seconds and banner view will then change to Press Menu Banner. Your Receiver is now ready to be scanned to lock in all of the Broadcast Frequencies in your area.
- You will see Strong Image Banner on Component, RGB mode.



Automatic Scan Process

- Press the Menu button (Button 26) on the remote control and a Main Menu Banner will be viewed listing 8 topics on left side.



- Using Remote Control Up/Down Scroll Buttons, Scroll to Set Up.

- Push Remote Control OK Button (Button 24)

- Set Up banner will be viewed listing 5 topics



- And then Push Remote Control OK button SYSTEM banner will be viewed listing 5 topics.

- Scroll to AUTO SCAN and push OK button Twice on the remote control.

- Channel Scanning will now commence and will take approximately one minute and will lock in all available frequencies in your area.

- Once Full Channel Scan is completed, you should see a broadcast channel displayed in full screen.



Selecting VGA & DVI Video Mode

- Press the Menu button (Button 26) on the remote control and a Main Menu Banner will appear listing 8 topics on left side.
- Using Remote Control Up/Down Scroll Buttons, Scroll to Set Up.
- Push Remote Control OK Button
- Set Up banner will be viewed listing 5 topics
- And then Using Remote Control Up/Down Scroll Buttons, Scroll to VIDEO
- Push Remote Control OK Button. You will be viewed listings 4 topics.
- Scroll to Display Type and push OK
- Display Type banner will be viewed listing 6 Topics.
- The current Video Setting will be highlighted by a blue Dot.
- Scroll to your selected setting of either DVI or RGB monitor or RGB component
- Push OK button on the remote control and setting will be confirmed by blue Dot.
- Important : On your TV Remote Control, select the corresponding television input mode via the TV/Video button. Failing to select the correct display type will cause loss of picture.
Selecting VGA & DVI Video Mode



Selecting & Changing Channels

There are 2 methods to select and change channels

A. PRESS THE REQUIRED NUMERIC BUTTON ON THE REMOTE CONTROL (0-9)

- By pressing a numeric button, related to the logical channel of the network you want to view. You will see that program list menu appears on your television screen.
- Using the UP/DOWN arrow on the remote control unit, highlight the channel you want to view, and then press ENTER to tune selected program.
- While watching TV, you can get the 'TV channel list' by pressing OK button on the remote control unit.
- Press UP/DOWN to change/select channel and press ENTER to select channel.
- Please Note : SRT 5490 has default LCN(Logical Channel Number) System
1 = Ten Network & Affiliates
2 = ABC
3 = SBS
7 = Seven Network & Affiliates
9 = Nine Network & Affiliates

B. SELECT AND CHANGE CHANNELS BY USING THE UP/DOWN CHANNEL BUTTONS CH + (BUTTON 14) CH - (BUTTON 16) Selecting & Changing Channels



Volume

VOLUME CONTROL

To adjust Volume UP and DOWN, press the following buttons on the remote control:

- Volume Increase : VOL Button + (Button 13)
- Volume Decrease : VOL Button – (Button 15)

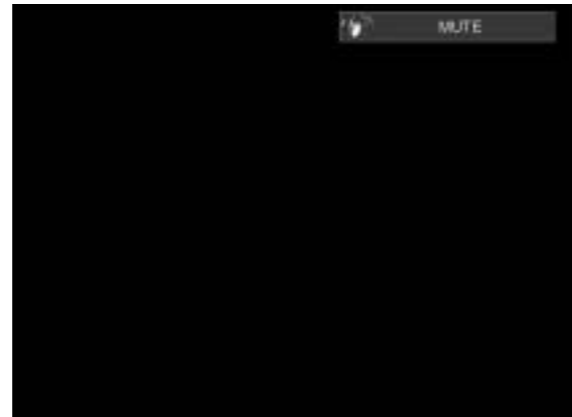
IMPORTANT: The Volume Level is dependant on the volume level that you set on your TV.
i.e. via your TV remote control volume setting.



VOLUME MUTE

Press Mute button (Button 2) on the remote control.

Press Mute button (Button 2) again to reactivate sound.



Playback

By pressing PLAY on the remote control unit, the latest played video is automatically played. Or you can select and play video from CONTENTS_VIDEO LIST.

BOOKMARK

Set bookmark on current position.

*Canceling the BOOKMARK

Press JUMP to move preset BOOKMARK positions.
Press BOOKMARK again to cancel the current position

JUMP

Go to next/previous bookmark position.

REPEAT

Repeat the selected region between start and end position.
Press REPEAT once more to cancel the repeating playback.

PAUSE

Pause the playback at the current position.

PLAY

To resume playback after pause or return to 1X speed after trick play.

[<<, >>]

Jump to position of 1min. forward or backward.

<<, >>

Change the playback speed.

(1X -> 2X -> 5X -> 20X ->50X ->300X)

STOP

Stop playing.



Timeshift

START TIME SHIFT

Press T/SHIFT key on the remote control unit. Or start with SERVICE->TIME SHIFT.

LEFT/RIGHT

Adjust playback time on the Time Shift time line bar.

PAUSE

Pause the playback on current position.

PLAY

Quit pausing and play continuously. Return to normal (1X) speed from trick mode.

|<<, >>|

Jump to position of 1min. forward or backward.

<<, >>

Change the playback speed.
(1X -> 2X -> 5X -> 20X ->300X)

STOP

Go to the live video.



! CAUTION !
TIME SHIFT FUNCTION DOES NOT WORK
DURING 2 RECORDING OPERATIONS.
Timeshift

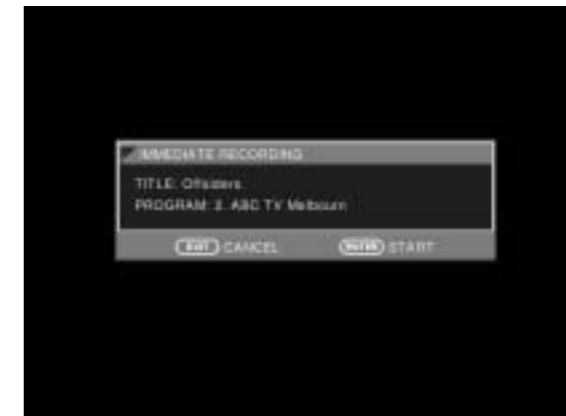
Immediate Record

The default Record duration is 12 hours.

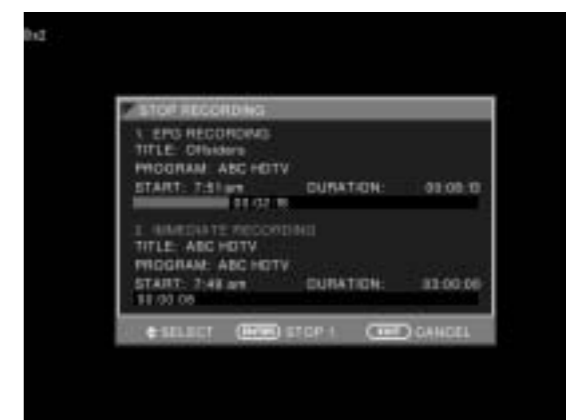
You can choose your preferred record duration by pressing RECORD Button (Button 37) and then press the UP / DOWN Button (Button 21/25). Select your record duration to a maximum of 24 hours and a minimum 10 minutes.

Now push the OK Button (Button 24) to start immediate record.

• **Note:** Immediate Record cannot be actioned when viewing a previously recorded file or when operating the Time Shift mode.



Stop Record



Dual Immediate REcord

After an immediate record, the second tuner of the SRT 5490 can be utilised to record another program.

The program or channel is selected using the remote control and the record button is selected as per the immediate record.

REC 2 - P, will be shown in the display of the SRT 5490 indicating it is currently recording two programs.

Whilst recording two programs it is also possible to replay and view a previously recorded file.

Dual Record and Playback

Dual Record and Playback

To view a previously recorded file whilst recording 2 new programs, select the Menu/Contents/File list.

! NOTE !

FOR FILE PLAYBACK DESCRIPTIONS PLEASE REFER TO PAGE 47

The front display of the SRT 5490 show the **REC 2 - P**, indicating the unit is recording 2 programs and playing back a previously recorded program.

When the ! Information button (Button 28) on the remote control is selected; the names of the titles being played or recorded will be displayed.

Program List Menu

Press MENU (Button 26) on the remote control unit and select TV PROGRAM.

This page shows all TV programs that can be viewed.

SELECT

By pressing UP/DOWN buttons, you can select the desired program.

By pressing LEFT/RIGHT buttons, you can select sub menu.

TUNE

Tune the selected program. By pressing CH+/- buttons, all programs are tuned in the order shown.

LOCK

LOCK on or off the selected program.

FAVOURITE

Add the selected program to favourite list.

DELETE

Delete the selected program from the program list. Program List Menu



Radio List Menu

Press MENU (Button 26) on the remote control unit and then select RADIO PROGRAM.

This page shows all radio programs that can be viewed.

SELECT

By pressing UP/DOWN buttons, you can select the desired program.

By pressing LEFT/RIGHT buttons, you can select sub menu.

TUNE

Tune the selected program. By pressing CH+/- buttons, all programs are tuned in the order shown.

LOCK

LOCK on or off the selected program..

FAVOURITE

Add the selected program to favourite list.

DELETE

Delete the selected program from the program list.



Viewing Favourites

To view a program from the favourite program list do the following:

Press FAVOURITE button (Button 20) on the remote control unit. The next favourite program is selected. By pressing FAVOURITE button (Button 20) repeatedly, the user can navigate through the favourite program list.

SELECT

By pressing UP/DOWN buttons, you can select the desired program.

By pressing LEFT/RIGHT buttons, you can select sub menu.

TUNE

Tune the selected program. By pressing CH+/- buttons, 'Favourite only' programs are tuned in the order shown.

LOCK

LOCK on or off the selected program.

FAVOURITE

Change the selected program to "FAVOURITE OFF". The program will no longer appear in the favourite list.

DELETE

Delete the selected program from the favourite list.



PIP : Picture In Picture

- Push remote control button 29 to activate a sub picture.
- Important: PIP is a function only of the single channel you are currently viewing.

SUB +/- for PIP Associated Sub Channels

- By pressing the SUB + button 30 and SUB - button 34 will then change to another PIP Sub view as long as that broadcaster has other channels associated to it.
- For example you may be watching Channel 7 high definition channel (Ch70) but the Broadcaster 7 also has other associated channels such as EPG information etc; these are the PIP Sub pictures that you can select as your PIP channel.

PIP Swap

- By pressing PIP SWAP (Button 32), alternates the main view and the PIP sub view. For example your main screen view is Ch70 and your PIP sub view is Ch 7 EPG channel.
 - Pressing the PIP SWAP changes the EPG to your main screen view and Ch70 becomes your PIP sub view.
 - EXCEPTION: PIP SWAP does not work when playing back a previously recorded video file.
- SUB +/- for PIP Associated Sub Channels

Information Panel

Pressing ! Information button (Button 28), this Information Panel becomes active.

This bar displays major-minor channel number; channel name, title, start time, end time, content advisory rating, closed captioning indicator, and extended text descriptions for current / next event. Initially the information maybe blank and may take a second or two to update. RF signal status is displayed together.

Pressing button again with Information Panel deactivates Information Panel.

Unless on recording, 'RECORDING INFORMATION' does not appear. This recording information will only be displayed if a record function is activated. Information Panel



Program Guide

This page is visible with GUIDE button (Button 33) press. This page shows all the information found from Information Panel as well as additional program schedules not just current / next event related contents.

SELECT

- By pressing UP/DOWN buttons, you can select the desired program.
- By pressing LEFT/RIGHT buttons, you can select the desired title.

RECORD

- By pressing the RED button, add the selected program to 'EPG' recording schedule. The title added in recording schedule comes up with a record mark.
- To delete a title in recording schedule, select the title in recording schedule. When the selected recorded program is deleted it is removed from the record Schedule.
- When a conflict in record schedule is found the following banner will be displayed.



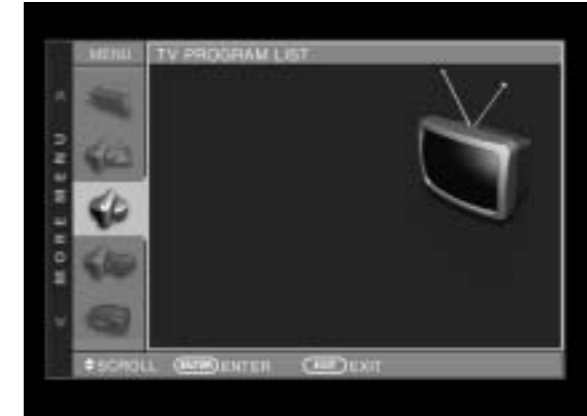
Main Menu

Press Main Menu button (Button 26) to display main menu that has 8 section entries:

- Radio program List
- Favourite Program List
- TV Program List
- Program Guide
- Parental Guide
- Service, Setup
- Contents

By using the UP/DOWN Buttons (Button 21/25) to select from the list, and then push the OK Button (Button 24) button the to see submenu page.

Once a sub-menu has been chosen the particular page is displayed and the main menu disappears showing the selected Sub menu.
Main Menu



Setup Menu-Video

Setup Menu - Video
The Setup page consists of 5 groups of configurations; Video, Audio, System, Time zone, Version.



The VIDEO page consists of 4 groups of configurations; Display mode, Display type, Aspect ratio, Screen mode.

! CAUTION !
WHEN RECORDING OR TIME SHIFTING THE DISPLAY MODE, DISPLAY TYPE, AND ASPECT FUNCTIONS ARE NOT ACTIVE AND CAN NOT BE SELECTED.



DISPLAY MODE
The video menu page allows user to choose the display resolutions.



Setup Menu-Video

DISPLAY TYPE
The users display type can be selected from this sub menu the default selection is component failing to choose the correct menu item will cause loss of display.



DISPLAY ASPECT RATIO
Used to select the correct display aspect ratio 4:3 or 16:9 (Also selectable from the remote hot key)



SCREEN MODE
This function is used to either fill the screen or Zoom the displayed video. In some cases black bars either side or top and bottom of the displayed program may be visible on some combination of aspect ratio's and TV displays this function can be used to reduce this effect.
Setup Menu - Video



Setup Menu-Audio

The AUDIO page consists of 2 groups of configurations; Dolby prologic, Digital Audio



PROLOGIC
prologic on, off



DIGITAL AUDIO
PCM, Digital audio



Setup Menu-System

The SYSTEM page consists of 6 groups of configurations; Manual scan, Auto scan, Initialize HDD, Network, Modify password, Factory Default.



MANUAL SCAN : SCAN DESIRED CHANNEL ONLY.

SCROLL

By pressing UP/DOWN button, you can select a channel and frequency.

0-9

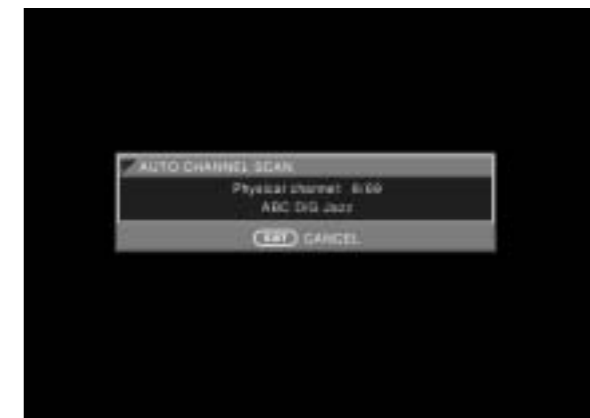
By pressing 0-9 button, you can edit the frequency of the selected channel. SCAN: Scan desired channel only.

SCAN

Push enter to scan the highlighted Ch.

AUTO SCAN : ALL CHANNEL SCAN

By pressing ENTER button, channel 6-69 are automatically scanned with the following display.

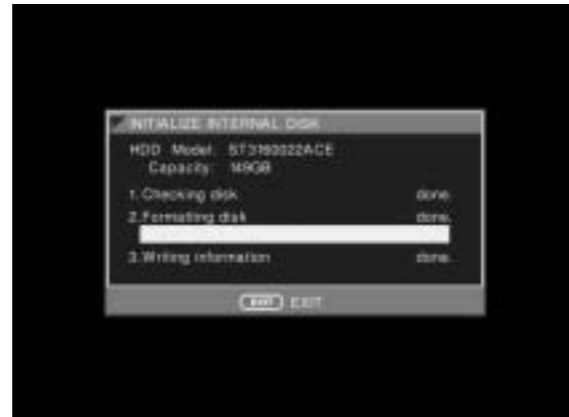


Setup Menu-System

3. INITIALIZE HDD

- Formatting HDD(Default password code is 0000)
- To initialize HDD, the system will ask for a password.
- If the password is accepted the HDD will be formatted and show the display below.
- If the power is interrupted during the format process you will need to start the process again.

! CAUTION !
FORMATTING HDD WILL ERASE ALL THE DATA AND THE FILES RECORDED IN HDD PERMANENTLY.



Setup Menu-System

4. NETWORK

Setting for IP address and on/off
 (Default IP:192.168.0.220)

IMPORTANT TIP

If you want to transport between PC to STB data (video, audio, image files)

1. Connection to PC and STB LAN port(CONNECTOR 16) using LAN cable
2. Setting PC and STB with same IP address group (STB Default IP:192.168.0.220)
3. connecting from PC to STB Using visual FTP tool or DOS command (FTP ID : root, Password : root)

ON
 Activate Network

OFF
 Deactivate Network

CONFIGURE
 Set up network configuration.

MOVE
 By pressing LEFT/RIGHT button, you can go to 'Ip address', 'net mask' set-up.

0~9
 By pressing 0~9 buttons, you can change the IP address or Netmask settings.

ENTER
 Save current setting data and move to MENU.

MENU
 Ignore current setting data and move to upper MENU.



Setup Menu-System

5. MODIFY PASSWORD

Use to change password.
(Default password code is 0000)

SELECT

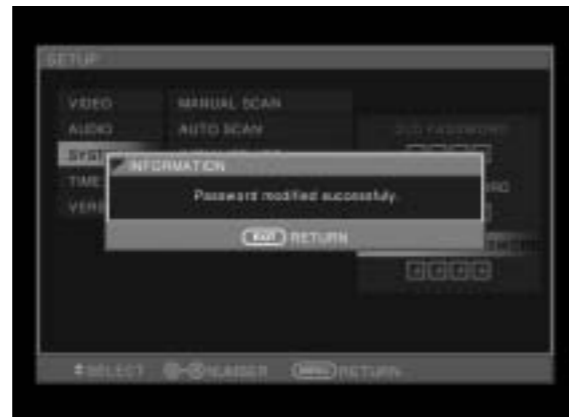
By pressing UP/DOWN button, you can highlight and change the password.

- To set the New Password, insert the OLD Password and then the New password and then the New password as confirmation of the change.
- The below password modified successfully banner should be displayed.



6. FACTORY DEFAULT

Use to set initialization the Set Top Box.
(Default password code is 0000)



Setup Menu-Time Zone

4. TIME ZONE

Setting for time your area.

A: BY PRESSING UP/DOWN BUTTON TO SELECT A REGION, LOCAL TIME IS AUTOMATICALLY TAKEN FROM THE BROADCASTERS TRANSMISSION.

**! CAUTION !
IF A TIME ZONE IS SELECTED THE, SUMMER TIME FOR THAT ZONE WILL BE AUTOMATICALLY APPLIED**

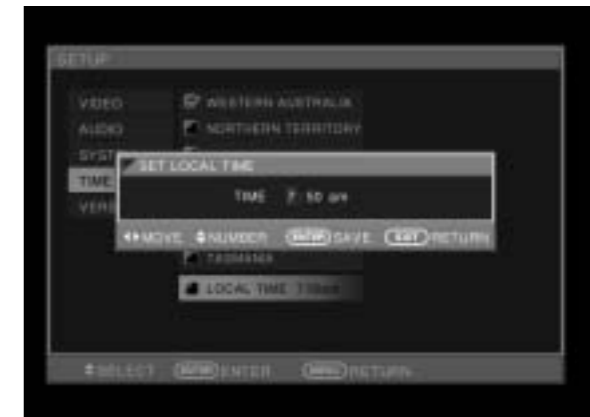
B: THE USER CAN MANUALLY SET THE TIME DISREGARDING THE REGION OR ZONE.

SELECT

By pressing LEFT/RIGHT button, you can move to HOUR:MINUTE AM/PM.

NUMBER

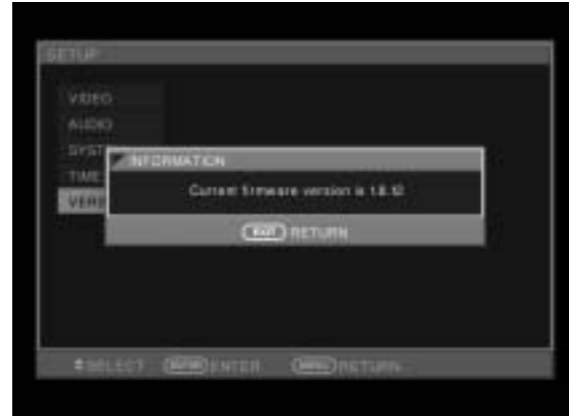
By pressing UP/DOWN button, you can select HOUR:MINUTE AM/PM.



Setup Menu-Version

5. VERSION

Verifying current S/W version



Service Menu-Record Schedule

The service page consists of 10 groups of configurations; Record schedule, Time shifting, EPG LEAD IN TIME, EPG LEAD OUT TIME, subtitle, teletext, PIP, OSD adjust, Wake up, Sleep.

1. RECORD SCHEDULE

Setting for Record schedule.

NEW

- Create a new record schedule.

DELETE

- Delete the selected record schedule.
- When the scheduled recording is currently recording.
- The recording will be then not active.

MODIFY

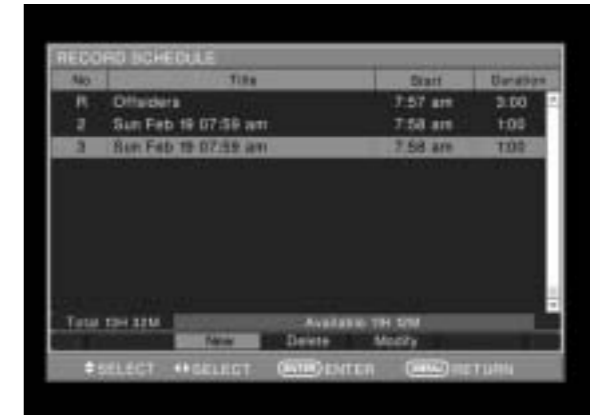
- Modify the selected schedule.
- By selecting 'New' or 'Modify', you can create or modify details related to the highlighted record schedule.

SELECT

- By pressing UP/DOWN button, TITLE, PROGRAM, START TIME, DURATION, REPEAT, KEEP TIME, LOCK, LEAD IN TIME, LEAD OUT TIME can be selected.

SAVE

- The save will move the display to the upper menu and save the information for that current record schedule.



Service Menu-Record Schedule

TITLE

- Edit title by screen keyboard.

PROGRAM

- By pressing UP/DOWN button, The PROGRAM for the scheduled recording can be selected.

START TIME

- To modify START TIME, by pressing LEFT/RIGHT button, you can move to YEAR MONTH/DAY HOUR:MINUTE AM/PM.
- By pressing UP/DOWN button, you can select number and AM/PM. After modification, press ENTER to save. (The default time is the current time.)



Service Menu-Record Schedule

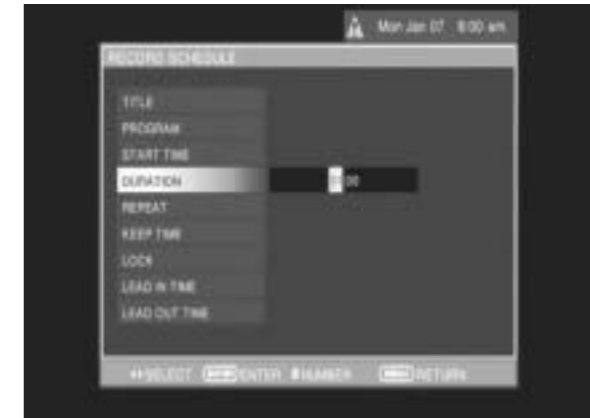
DURATION

- To modify DURATION, by pressing LEFT/RIGHT button, you can move to HOUR, MINUTE.
- By pressing UP/DOWN button, you can select Duration time
- After Selecting, press ENTER to save. (Default is 1 hr)

! CAUTION !
THE MAXIMUM IS 5:00. DATA OVER 5:00 IS NOT ALLOWED.

REPEAT

- By pressing UP/DOWN button, you can select REPEAT. Then ENTER. ONCE: Delete schedule after recording.



Service Menu-Record Schedule

KEEP TIME

- By pressing UP/DOWN button, you can select KEEP TIME. Then ENTER.
- It is saved as long as you select after recording endpoint. After selected time, the video will be deleted automatically.

! CAUTION !

YOU CAN MODIFY RECORDED VIDEO IN 'CONTENT -> VIDEO LIST' AFTER RECORDING.

LOCK

- Before an scheduled recording or after the scheduled recording you can confirm the password for video playback, renaming, deleting or sending the file under Contents-Video list-Lock.



Service Menu-Time Shifting

2. TIME SHIFTING

Time shifting on/off

- By pressing UP/DOWN button, you can select TIME SHIFTING. Then ENTER.

ON

- Start Time shift. This is the same function as the T/Shift button on the remote.

OFF

- Stop Time shift. This is the same function as the T/Shift button on the remote.

CLEAR

- Delete video time shift recorded. This clears the time shift record buffer on the HD.



Service Menu-Subtitle

3. SUBTITLE

Subtitle on/off

- By pressing UP/DOWN button, you can select SUBTITLE. Then ENTER.

ON

- Start Subtitle. This can be also activated as a hotkey on the remote.

OFF

- Stop Subtitle. By pushing the Subtitle hotkey again the function will be switched off.

! CAUTION !

SUBTITLE COULD BE NOT DISPLAYED WHILE USING SPECIFIC OSD EVEN SUBTITLE ON.



Service Menu-Teletext

4. TELETEXT

Teletext on/off

- By pressing UP/DOWN button, you can select TELETEXT. Then ENTER.

ON

- Start Teletext. This can also be activated via the remote hotkey.

OFF

- Stop Teletext. If the teletext hotkey is pressed again the function will be turned off.



Service Menu-PIP

5. PIP

PIP on/off

- By pressing UP/DOWN button, you can select PIP. Then ENTER.

ON, OFF

Display PIP ON/OFF. By pressing ENTER (Also a hotkey function on the remote), the attribute becomes reversal. It is same as pressing PIP button.

SWAP

Swap main program display for sub program display. It is same as pressing SWAP button on the remote control

SUBCHANNEL+

Tune PIP program. It is same as pressing SUB+ button.

SUBCHANNEL-

Tune PIP program. It is same as pressing SUB- button.

! NOTE !

**SWAP, SUBCHANNEL +, SUBCHANNEL -
DO NOT OPERATED WHEN PIP OFF.**



Service Menu-OSD Time Adjust

6. OSD TIME ADJUST

You can set the ON Screen Display time between 3 sec to 5 Min.

By pressing UP/DOWN button, you can select OSD TIME ADJUST. Then ENTER.

OSD will disappear if the remote is not used before the selected OSD time. The Menu OSB is not effected by this setting but this is not applied in MENU OSD. (The Menu default time is 5 min)



Service Menu-Sleep

7. SLEEP

Sleep time set

- By pressing UP/DOWN button, you can select SLEEP. Then ENTER. This selects the time in which the unit will turn off and go to stand-by mode after normal operation. Video playing and time shifting will be stopped when in stand-by mode.



Service Menu-Wake Up

8. WAKE UP

By pressing UP/DOWN button, you can select WAKE UP. Then ENTER.

You can tune the selected program by using the volume control button after WAKE UP off.

A MP3 file can be used as the wake up file, The file is stored in the PLAY_THIS_DIRECTORY_ WHEN_WAKE_UP' directory of CONTENTS -> FOLDER NAVIGATOR -> HDD.

OFF

If no Wake up is required.

ONCE

This is used if the Wake up is only required on one occasion.

DAILY

WAKE UP everyday

EVERY MONDAY

WAKE UP every Monday

MON-FRI

WAKE UP every Monday to Friday.

MON-SAT

WAKE UP every Monday to Saturday.



Service Menu-Lead In Time

9. EPG LEAD IN TIME

The Lead in time is added to the start time of the scheduled program in the case of 1 minute is selected the record function would start 1 minute earlier the ,EPG scheduled start of the program.

By pressing UP/DOWN button, you can select LEAD IN TIME. Then ENTER.

When record schedule is added in EPG, current setting data will be applied. And the record schedule should be leaded in for setting data.



Service Menu-Lead Out Time

10. EPG LEAD OUT TIME

The lead out time is added to the scheduled record finish time in the case of 1 minute being selected this would mean the recording would finish 1 minute later than the EPG time allowing for the occasions were the to program runs over.

By pressing UP/DOWN button, you can select LEAD OUT TIME. Then ENTER.

When record schedule is added in EPG, current setting data will be applied. And the record schedule should be leaded out for setting data.



Contents-Video List

The Contents page consists of 2 groups of configurations; Video list & Folder navigator

VIDEO LIST

- To playback a recorded video file
- It displays video list on/after recording and information.
- An R in the No field indicates a file is been the recorded mode, were a P indicates the file is currently playing.

PLAY

- You can select a File that is being currently recorded this function is known as Chase play and will replay the file from the start of the recording allowing you to pause or fast-forward/rewind.

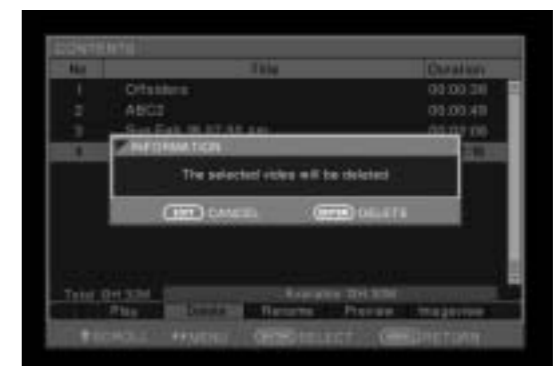
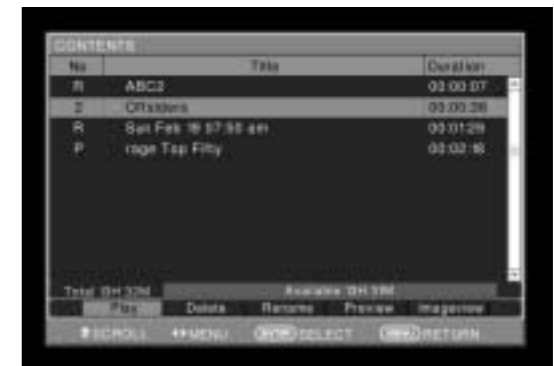
IMAGE VIEW, TITLE VIEW

- The Image view function will display the title and the first image of the video file in a thumbnail.

DELETE

- Delete the selected video.

! NOTE !
IT MAY TAKE A LITTLE TIME DEPENDING ON THE SIZE OF THE FILE TO DELETE.



Contents-Video List

RENAME

Modify the selected video title by using the screen keyboard.

PREVIEW

From selected video, it displays stopped scenes in scheduled time interval. By pressing UP/DOWN and LEFT/RIGHT button, you can select a stopped scene. Then ENTER to play from the selected scene.

! NOTE !

THE PREVIEW SCENE IS AUTOMATICALLY SHOWN WHEN YOU PREVIEW THE VIDEO FOR THE FIRST TIME, THIS MAY TAKE A LITTLE TIME.



SEND

Copy selected video file to external USB storage device.

SORT

When the sort function is selected the listed video files will be arrange either by Size-Name-Keep time-Date.

LOCK

Lock on/off selected video. It will ask you for password.

SET KEEP

The files recorded on the HD can be automatically be erased for a set time by making use of the keep function the settings. The settings are 24hrs-48hrs-1 week-1 month or keep the file for ever.



Contents-Folder Navigator

FOLDER NAVIGATOR

It is possible to send files from the HDD to a USB storage device and from the USB storage device to the HDD.

The USB menu will become active after the external USB device is plugged into the STB.

FILE BROWSING

By pressing UP/DOWN button, you can select a file or a directory. Then, by pressing LEFT/RIGHT button, you can select a sub menu.

PLAY

Play the selected file. The play function will allow you to view JPEG files or MP3 files. If the file that is being played is from an external USB storage device and the device is removed the system will stop playing the file and return to the contents menu.

DELETE

Delete the selected file. If the file has been locked the system will ask for the password.

LOCK

Lock on/off the selected file. You can lock the file this prevents accidental removable of the stored file. This lock function does not work on files stored on an external USB device.

CREATE

Create a new directory on the current view by screen keyboard.

SEND

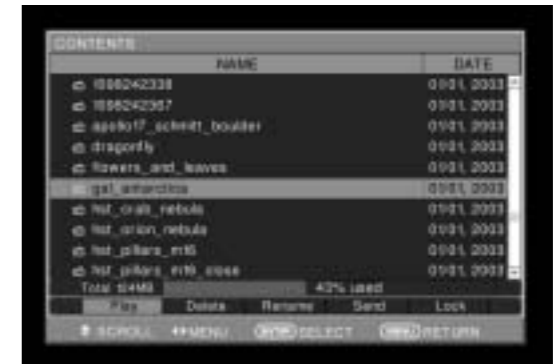
You send or transfer files to other directories by first selecting the copy function then pressing the yellow send button.

PLAY(MP3)

The following screen will appear if a MP3 file is selected for playback.

SCROLL

By pressing UP/DOWN button. Use the scroll to change titles.



Contents-Folder Navigator

NORMAL, REPEAT

By pressing LEFT/RIGHT button, you can repeat the music currently played.

PAUSE

Pause playing. By selecting the pause button on the remote this will pause the file playback and a yellow play function will appear, if this play function is selected the file will resume the play back from the point were the file was paused.

STOP

Stop playing.

PLAY

When pause is selected the play button will resume the playback.

|<<, >>|

When pressed it highlights the previous file or the next file for selection.

<<, >>

Move to the start or the end of the playback list.
! NOTE !
DURING MP3 PLAYBACK THE TIME SHIFT AND VIDEO FILE PLAYBACK IS NOT ACTIVE.

PLAY(JPEG)

The following screen appears when the selected file is JPEG file.

PREVIOUS

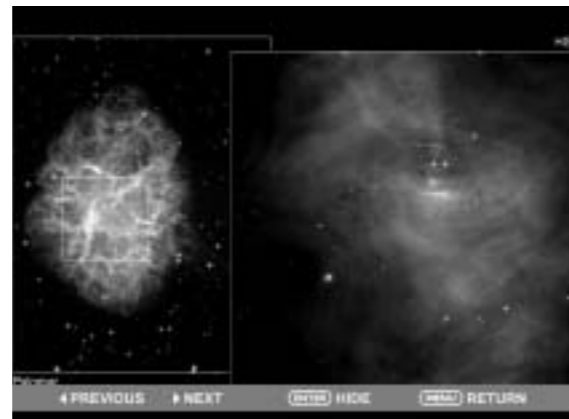
Play the previous file in the list.

NEXT

Play the next file in the list.

HIDE

Menu Bar appears/disappears when you press ENTER.



Configuration of Universal Remote

The SRT 5490 Remote Control is a 'Universal' Remote Control Unit. To utilise this remote control to also operate some of the functions of your TV, configure in the following way.

- 1 Turn on the Television
- 2 On the SRT 5490 Remote Control, Press the TV button (7) and the OK button (24) 'together' for about seconds. TV Button LED will light as an indication of successful RCU set-up mode.
- 3 Refer to the following TV Brand Code List to view your television brand. On the remote control enter the three digit code of your television via the numeric buttons 0 to 9
When this is actioned successfully, your television will turn OFF.
If television does not turn OFF, you will need to repeat steps 2 & 3.
- 4 When your Television turns OFF, press the TV button (7). If the configuration has been successful, the TV button LED will flash three times and TV Code will be saved.
- 5 Press other Function Buttons of the remote control. If these other Function Buttons are not working (with exception of the Power Button), repeat the procedure from Step 2.

Television code of UNIVERSAL REMOTE CONTROL UNIT

A.R.Systems	001	Anam	001,036,041
Abex	134	Anam National	001
Accent	001	Anglo	036,040
Acec	161	Anitech	001,007,036,040,041
Admiral	040,072,136,141	Ansonic	001,035,036,066,073,100,101,102,135,145,161
Adyson	041,134	Arc en Ciel	110,113,117,146,189,195
Agashi	040	Aristona	001,005,161
Agef	141	Arthur Martin	074
Aiko	001,026,030,036,040,067,071,105	ASA	085,104,141,147,167
Aim	001,059	Asberg	001,007
Akai	001,020,026,030,036,037,038,040,063,067,071,078,080,105,143	Asora	036
Akiba	001,062,063,070	Asuka	040,062,063
Akito	001,157	Atlantic	001,076,102
Akura	001,036,039,040,062,063,064,068	Atori	036
Alaron	056	Auchan	074
Alba	001,030,031,034,036,038,052,055,063,068,072,079,093,100	Audiosonic	001,040,063,075,100,117,145
Alcyon	007.031	Audioton	040,100
Allorgan	054.076	Ausind	007
Allstar	001	Autovox	007,076,141
Amplivision	074,100	AWA	001,035,036,039,078,089,092,093
Amstrad	001,022,030,036,039,040,042,063,064,071,088	Baird	020,065,067,111,114,115,117
		Bang & Olufsen	141
		Barco	084
		Basic Line	001,035,036,062,063
		Baur	001,046,103,105,138,150,153,

Configuration of Universal Romote

Baur	190,193	Crown	079,096,100,184,185
Beko	001,078,100	CS Electronics	063
Beon	001,072,134	Curtis Mathes	024,095,136
Best	075,100,185	Megatron	024
Bestar	001,035,100	Cybertron	063
Blacktron	062	Daenyk	056
Blaupunkt	103,105,127,143,190,193	Daewoo	001,004,006,035,036,063
Blue Sky	001,034,062,063,068,070,200	Dainichi	063
Blue star	062	Dansai	001,026,036,040,134
Boots	157	Dansette	039
BPL	001,062,184	Dantax	100
Brackway	062	Datsura	020,184
Brandt	087,098,110,113,117,146,160,189,195	Dawa	001
Braun	183	Daytron	001,035,036
Brinkmann	001,045,072	de Graaf	018,020,028
Brionvega	001,141	Decca	001,051,067,139,157
Brother	040	Deitron	001
Bruns	141	Denko	040
BSR	054	Denon	024
BTC	063	DER	065
Bush	001,020,030,031,034,035,036,038,040,045,052,054,055,062,063,068,093,157,200	Derwent	077
Candle	021	Desmet	001
Capsonic	040	Diamant	001
Carad	001,049	Digiline	001
Carena	001,070	Dixi	001,036
Carrefour	085,093	Domland	133
Carver	023	Doric	077
Cascade	001,036	Drean	001
Casio	001	DTS	036
Cathay	001	Dual	001,045,102,111,133,150
CCE	001	Dumont	066,067,085,104,141
Centurion	001	Dux	001,161
Century	141	Dynatron	001
CGE	007,072	Dynatron	001
Cimline	036,055,063	Elbe	001,015,049,063,073,100,101,102,105
City	036	Elcit	066,141
Clarivox	072,085	Elekta	040,062
Clatronic	001,007,030,036,040,063,066,079,100	ELG	001
Concorde	036	Elin	001,036,104,143,167
Condor	001,036,062,066,072,073,100	Elite	063,001
Conic	134	Elman	066
Contec	036,089,092,093	Elta	036,041,040
Continental Edison	034,098,110,113,117,146,189,195	Emerson	001,006,022,030,056,062,085,141
Cosmel	036,075	Emperor	062
Crosley	007,141	Erres	001,161
Crown	001,006,007,020,034,036,072,	ESC	001
		Etron	001,036
		Eurofeel	040
		Euroman	001,040,185,100

Configuration of Universal Romote

Europa	001	Hantarex	001,036,066,108
Europhon	001,066	Hantor	001
Expert	074,076,102	Harley Davidson	056
Exquisit	001	Pye	001,005,035,141,161
Family Life	001	Harvard	041
Fenner	035,036	Harwood	001,036,039,134
Ferguson	065,069,087,098,114,115,117,160	Hauppauge	001
Fidelity	001,030,040	HCM	001,036,039,040,062,063,072
Finlandia	020,147	Hema	036
Finlux	001,007,056,066,067,073,085	Hifivox	113,117,189,195
Firstline	001,020,035,036,053,054,055	Highline	001,040
Fisher	020,025,067,091,092,093,100	Hikona	063
Flint	001	Hinari	001,006,020,031,034,036,050,052
FNR	066	Hisawa	062,063,070,074
Formenti	007,141	Hit	141
Fortess	136,141	Hitachi	001,010,011,013,014,018,019,
Fraba	001,100	Hitachi Fujian	137
Friac	001,036,066,185	Hitsu	036,063,070
Frontech	036,040,143	Homyphone	001,161
Fujitsu	036,056,066,067,076	Hoshai	063,070
Fujitsu General	036	Huanyu	035
Funai	040,054,056	Hyper	036
Galaxi	001,066	Hypson	001,040,062,070,074
Galaxis	001,066,072,100	Hyundai	043
GBC	035,036,063	Iberia	001
GE	062,069,098,111,117,160	ICE	001,030,036,040,063
Geant Casino	074	Ices	063
GEC	001,027,067	Imperial	001,007,072,100,113
Geloso	035,036	Indiana	001
General	098,117,159,197	Ingelen	034,049
General Technic	036	Ingersoll	036
Genexxa	001,039,063	Inno Hit	001,007,036,063,067,151
Goldline	075	Innovation	045
GoldStar	001,028,036,080,100,134,151	Interactive	073
Goodmans	001,026,030,034,035,036,040,	Interbuy	036,040,041
Gorenje	100,185	Interfunk	001,046,100,117,141,142,161,189,195
GPM	063	Internal	001
Gradiente	001,023,096	Intervision	001,030,034,040,041,045,062,063,066,
Graetz	001,030	Irradio	001,007,036,063,151
Granada	001,007,016,020,025,061,067,069,074,	Isukai	001,062,063
Grandin	001,036,049,062,063,070,074,079	ITS	001,030,040,062,063
Gronic	066	ITT	016,020,056,147
Grundig	001,007,034,085,103,105,190,193	ITT Nokia	016,020,049,056,078,147
Halifax	040	ITV	001,040
Hanimex	054	Jean	093
Hanseatic	001,036,045,054,062,100,101,133	JEC	026
		JVC	030,063,065,078,093,096,097,114

Configuration of Universal Romote

Kaisui	001,036,062,063,070	Medion	001,045,068
Kapsch	076,102,104	Megas	049
Karcher	001,040,049,062,066,100,185	Tatung	001,051,067,089,139,157
Kendo	001,045,049,055,066,073,080, 100,145	Melectronic	001,035,036,041,046,073,104,
Kennedy	015,076	Melvox	074
Kneissel	001,015,049,073,100,101,102	Memorex	014,036,057
Kolster	001,066	Memphis	036,067,075
Konka	001,030,063	Mercury	001,036
Kontakt	034	Metz	099,103,105,141,142,190,193
Korpel	001	MGA	014
Korting	100,141,185	Micromaxx	001,068
Kosmos	001	Midland	006,134
Kotron	039,040	Minerva	007,034,085,103,105,190,193
KTV	006	Minoka	001,039
Kyoshu	039,040,072,134	Mitsubishi	001,014,046,077,088,093,136, 137,141
Kyoto	134	Mivar	007,081,100,101,151
Lecson	001	Monaco	036
Lemair	073	Morgan's	001
Lenco	001,035,036,104	Motion	007
Lenoir	036	Motorola	136
Leyco	001,040,054,067,079	MTC	046,100
LG	001,002,036,080,100,134,151	MTEC	134,157
Liesenkotter	001,161	Multistandard	066
Lifrtec	001,035,036,040,045,046,063, 068	Multitec	001,068
Lloyd's	036	Multitech	001,036,066,100
Lioytron	134	Murphy	006,067,104
Loewe	001,046,100,101,141	Musikland	063
Logik	030,089	NAD	095
Logix	068	Naiko	001
Luma	001,035,036,073,076,102	Nakimura	001,035
Lumatron	001,040,076,102,115	NAT	061,083
Lux May	001,036	National	061,083
Luxor	020,056,082,147,151,180	NEC	001,023,035,036,070,089,093
Madison	001	Neckermann	001,072,073,100,105,138,141, 153,193
Magnadyne	066,141	NEI	001,030,075
Magnafon	007,066	Nesco	056
Magnavox	001,056,093	Netsat	001
Magnum	042	Network	075,134
Mandor	040	Neufunk	001,036,049
Manesth	001,026,040,054,055	New Tech	001,036,111,143
Manhattan	001,068	New World	063
Marantz	001	Nikkai	001,026,036,040,063,067,075, 093,134
Marelli	141	Noblex	001,040
Mark	001,035,036	Nobliko	007,066,085
Masuda	030,036,063	Nokia	016,020,035,078,147,180
Matsui	001,020,022,025,026,030,031, 034	Nordmende	001,063,098,103,110,111,113, 117,
McMichael	027	Novatronic	001,035,167
Mediator	001,161		

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Npgamatoc	113,117,189,195	Prosonic	001,030,035,068,079,083,100
Oceacic	020,011,054,074	Protech	001,036,040,066,068,072,075
Odeon	040	Provision	001
Okano	001,040,067,100	Pymi	036
Omega	040	Quadra Vision	074
Onwa	030,037,038,063,071	Quasar	057
Opera	001	Quelle	001,040,046,068,085,089,092, 093
Optimus	057,095	Questa	093
Optonica	136	Radialva	001,063,117
Orbit	001	Radiola	001,135,161
Orion	001,022,031,036,039,040,050,	Radiomarelli	001,077,141
Orline	001,063	RadioShack	001,006,134
Ormond	068	Radiotone	001,036,039,040,042,072,079, 100,145
Osaki	001,031,035,039,040,063,067, 134,157	Rank	085
Osio	001	Rank Arena	118,119,120,121
Oso	063	RCA	069,087,136,160
Osume	063,067,092,093,134	Realistic	006,134
Otto Versand	001,046,055,093,103,105,117	Recor	001
Palladium	001,045,072,073,100,105,138, 141,	Rectiligne	001
Palsonic	001,039,040,080	Rediffusion	077,093
Panama	001,036,040	Redstar	001
Panasonic	001,057,059,061,083,099,148, 166	Reflex	001
Panavision	001,073	Revox	001,100
Pathe Cinema	074,101	Rex	073,076,102
Pathe Marconi	110,113,117,146,189,195	RFT	040,067,100,101,141,145
Pausa	036	R-Line	001
Perdio	001,067	Roadstar	001,036,040,063,072
Perfekt	001	Robotron	141
Pershin	074	Rodex	001
Phase	134	Roxy	143
Philco	001,007,024,072,100,141	Royal Lux	039,100,185
Philips	001,005,027,035,105,111,135, 141	Saba	087,098,110,111,113,117,141, 158,160
Phoenix	001,067,100,141	Sagem	049,062,070
Phonola	001,005,141,161	Saisho	022,031,036,040,055,088,089
Pilot	001,006	Salora	016,050,082,151,184
Pioneer	001,095,100,111,117,145	Sambers	007,066
Pionier	100	Sampo	006,134
Plantron	001,036,040	Samsung	001,003,008,020,029,036,040, 067
Poppy	036	Sansui	001,030
Portland	006,035	Santon	036
Powerpoint	034	Sanyo	001,016,020,025,036,067,089, 091
Prandoniprince	007	Save	001
Prima	036,040,134	SBR	001,161
Prinz	067,082	Schneider	001,030,042,045,063,068,102, 111
Profex	036	Schsub Lorenz	078
Profitronic	001,066		
Proline	001,053,067,087,161		

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Scott	056	Tactus	157
Sears	056,064	Tandberg	073,075,099,113,117
SEG	001,034,036,040,066,068,093	Tandy	063,067,136
SEI	001,054,066,076,108,141,153	Tashiko	023,027,093,134
Seleco	073,076,102	Teac	001,036,039,040,046,064,070
Sencora	036	TEC	036,075,102,159,160
Sentra	026,036,063	Tech Line	001,068
Serino	049,070	Techica	063
Sharp	006,021,054,090,092,093,096, 097,136	Technics	057
Shorai	054,056	TechniSat	199
Siam	001	Teiron	036
Siarem	066,141	Teknika	006,021,056
Siemens	001,092,103,105,134,190,193	Teleavia	108,113,117,146,188,189,195
Siera	001,161	Telecor	001,063,102,133
Siesta	100	Telefunken	001,087,098,111,112,113,115, 116
Silva	001	Telefusion	001
Silver	001,056,093	Telegazi	001,040,063,102
Simpson	021	Telemeister	001
Singer	001,015,036,066,074,141	Telesonic	001
Sinudyne	001,022,054,055,066,076,108, 141,153	Telestar	001
Sky	001	Teletech	001,036,068,075
Solavox	067,134	Teleton	021,076,093,102,142
Sonawa	063	Televiso	074
Sonitron	016,020,100	Temco	054
Sonneclair	001	Tempest	001,036
Sonoko	001,036,040,062	Tennessee	001
Sonolor	020,074,138,153	Tensai	001,030,035,036,054,063,080, 104,167
Sontec	001,054,100	Tenson	036
Sony	032,033,066,089,093,138,153	Tevion	001,042,045,068
Sound & Vision	035,063,066	Texet	035,036
Soundesign	021,056	Thomson	001,069,087,098,110,111,113
Soundwave	001,072,134	Thorn	001,026,035,046,065,104,114, 115
Spectra	036	Tokai	001,035,036,067,075,143
Ssangyong	036,134	Tokyo	026,143
Stag	134	Tomashi	062,063
Standard	001,035,036,063,200	Toshiba	009,017,026,066,085,093,192
Starlite	001,036,040	Towada	066
Stenway	062,063	Toyoda	036
stern	076,102	Trakton	040
strato	001,036,040	Trans Continens	001
Sunkai	001,034,052,053,054,055,063, 070	Transonic	001,046,070
Sunstar	001,030,036,079	Trisrar	063
Sunwood	001,036	Triumph	001,017,022,147
SuperTech	001,036,063	Uher	001,007,035,072,076,100,102, 150
Supra	006,035,036	Ultra	114
Susumu	160	Ultravox	001,035,066,141
Sutron	036	Unic Line	001
Symphonic	064		

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United	001
Universum	001,007,022,040,046,054,068, 072,
Univox	001,075,141
Vestel	001
Vexa	001,036
Victor	096
Videologipue	063
VideoSystem	001
Videotechnic	035
Vidikron	066
Vidtech	093
Viper	075
Vision	001
Vistar	076
Vortec	001
Voxson	001,007,072,141
Waltham	001,072,098
Watson	001,036,045,063,068,079,133
Watt Radio	066
Wega	001,093,141
Wegavox	036
Weltblick	001
Wharfedale	001,045
White Westinghouse	001,075
Winco	039
Windstar	062
Xrypton	001
Yamishi	001,062,063,070
Yokan	001
Yoko	001,016,036,040,063,100,185
Yorx	063
Zanussi	076
Zenor	016

Troubleshooting

Troubleshooting

There may be various reasons for abnormal operation of the unit. Occasionally receivers can hang-up (just like a PC). In this circumstance, it is recommended to reset the receiver by disconnecting it from mains power. Wait 30 seconds and connect to mains power again and check if receiver is working correctly.

If there is still incorrect operation, please refer to the following table for the indicated problem.

Symptoms	Possible Cause	Solution
Indicators on front panel do not light up.	AC power disconnected	Check the main power cord is plugged into the wall socket. Make sure the power switch is on.
No picture & sound	TV mode is Incorrect	Check your TV has been set to correct AV mode.
	The cables connecting the TV and the receiver are not properly connected.	Check your selected connection: Component / DVI-I / RGB-HV / S-Video / Composite / Audio / Antenna
Picture and/or audio glitch	Insufficient signal strength for digital.	Check signal level & quality level indicators of the receiver to verify whether your antenna signal is adequate.
	Electrical Interference	Check all antenna cabling used is Quad Shielded type, including the antenna Fly Lead from the wall socket to the receiver.
No Sound	The receiver or the TV is in Mute mode	Press the MUTE button on the remote control of your receiver and TV.
	Initial volume level has not been set on your TV	Set your desired TV volume level via TV remote control.
Remote control not working	<ul style="list-style-type: none"> Batteries not inserted Batteries exhausted Outside range of operation 	<ul style="list-style-type: none"> Insert batteries Change batteries Aim at the receiver

For Technical Assistance: Please call our Technical Support Help Line 1 800 8200 30

General Enquiries: Please email us at tech2@strong-technologies.com

Product Return Tracking: If your receiver is required to be sent to Strong Technologies for repair and/or evaluation, please keep a record of the unit's **Serial Number**; this will ensure ease of tracking and identification on your behalf.

Specifications

Specifications

Input Frequency

VHF/UHF 5-69

Input Impedance

170MHz ~ 860MHz

Band Width

75 B̄ 162-2 male/female . PAL IEC

Signal Sensitivity

7 MHz

°√43.5 dB•İV(UHF)

°√35.4 dB•İV(VHF HIGH)

°√35.4 dB•İV(VHF LOW)

Algorithm

MPEG-2 compatible Main Profile@High Level

Display Video Type

1080i / 720p / 576p and 576i for 25Hz selectable

Display Frame Rate

25/50 Hz

Video Output 1

Composite (RCA) . SMPTE-170M

Video Output 2

S-Video (Mini DIN) . SMPTE-170M

Video Output 3

Y, Pb, Pr Component

Video Output 4

DB15p (RGB-HV) RGB, luminance < 30MHz, chrominance < 15 MHz

Video Output 5

Digital and analog link DVI-I output

Audio Algorithm

AC-3, MPEG-1/2 layers

Frequency Response

20Hz~ 20 kHz, < °æ 2dB

Sampling Frequency

48 kHz

Analog Audio Output for TV

RCA male 2ch (L, R or Lt, Rt)

Line Analog Audio Output

RCA male 2ch (L, R or Lt, Rt) . Fixed volume

Digital Audio Output

IEC61937 (SPDIF) optical connector Jitter < 0.15UI

USB Port

USB V1.1 Interface

Ethernet Port

IEEE 802.3, 10/100Mbps Interface

CPU

300 MHz 32 bit MIPS

Firmware Download

Upgrade over USB

Operating System

Embedded Linux

Memory

128Mbytes DRAM, 16 Mbytes NAND Flash

Data Interface

IEEE802.3 10/100Mbps Ethernet, USB 1.1

Power

98~240V AC 47/63Hz 35W max

Standby Power

5W

Environmental Condition

0 ~ 45 °ΔC degree. 0~95% humidity

Operating Temperature

25°ΔC

Weight

5.00Kg

Dimension (W/D/H)

360 / 290 / 65mm