



# SD Digital Receiver User Manual

DVB-S 5010

Please read carefully and retain for future reference

# Contents

<b>1.0</b> 1.1	Important Safety Instructions Set-Top Box	1
2.0	General Introduction	2
3.0	Controls and Functions	
3.1	Front Panel	3
3.2 3.3	Rear Panel	3 4
3.4	Remote Control Functions	5
4.0	Installation Guide	
4.1 4.2	STB Receiver Connection Getting Started	6 6
4.3	Preparing your Remote Control	6
4.4	Fast Satellite Set-Up	7
5.0 5.1	Menu Operation	q
0.1	5.1.1 TV Edit	9
	5.1.2 Delete	9
	5.1.4 Fav (Favourite)	9
	5.1.5 Lock	10
	5.1.7 Del All (Delete All)	10
	5.1.8 Edit PID	10
	5.1.8.1 Renaming the Programme	11 11
<b>5.2</b> F	Radio Edit	11
6.0	Installation	
6.1 L	Dish Installation 6.1.1 TP (Transponder)	12 12
	6.1.1.1 TP Search	12
	6.1.1.2 Add a TP 6.1.1.3 Delete	12 13
	6.1.2 Edit Satellite	13
	6.1.3 Search Satellite	13 14
	6.1.5 Delete Satellite	14
6.2	Satellite Guide	14
7.0	System Setting	15
7.2	Menu Setting	15
7.3	Lock Control	15
	7.3.2 Channel Lock	16
74	7.3.3 Changing your Password	16
7.4	7.4.1 TV Type	16
	7.4.2 Screen Type	16
7.5 7.6	Reset to Factory	16
8.0	Utility	
8.1	Upgrade	17
8.2 8.3	System Into	17 17
9.0	Troubleshooting	18
10.0	) Glossary	19
11.0	) Specification	21

# 1.0 Important Safety Instructions

# 1.1 Set-Top Box

This STB has been manufactured to satisfy all necessary International Safety Standards. Please read the following safety precautions carefully and retain for future reference.

#### MAINS SUPPLY

Use only 100-240V AC, 50/60Hz, (Consumption approx. 25W).

#### • OVERLOADING

Do not overload your wall outlet, extension cord or adaptor, failure to observe these precautions can lead to a risk of fire or electrical shock. Ensure that the power source (socket) is easily accessible in case it needs to be disconnected.

#### LIQUIDS

Never allow liquids, spray or other fluids to enter the Receiver (STB). Never stand any containers (such as a vase) holding liquid on the STB.

#### CLEANING

Always disconnects the STB power cord from the wall socket before cleaning. Use a slightly dampened cloth (no solvents) to clean the case.

#### VENTILATION

The slots on top of the STB must be left uncovered to allow proper airflow to the unit. Ensure a minimum distance of 5cm around the apparatus for sufficient ventilation.

#### POSITIONING

**DO NOT** stand the STB on soft furnishings or carpets.

DO NOT stack electronic equipment on top of the STB.

**DO NOT** operate this STB where contact with or immersion in water is a possibility.

DO NOT use near a flower vase, washbowl, kitchen sink, laundry tub, swimming pool, etc.

**DO NOT** put a candle or lamp stand on the STB. Failure to observe this may lead to a risk of fire.

**DO NOT** allow the unit to be exposed to extreme heat, cold or conditions of high humidity.

DO NOT cover the STB or place it on a device that emits heat.

#### ATTACHMENTS

Never add any accessories or equipment that has not been approved by the manufacturer or is shown within this manual. Failure to observe this could result in a risk of fire, electric shock or other personal injury.

#### CONNECTION TO THE SATELLITE DISH LNB

Disconnect the STB from the mains supply before connecting or disconnecting the cable from the satellite dish. FAILURE TO DO SO CAN DAMAGE THE LNB.

#### CONNECTION TO THE TV

Disconnect the STB from the mains supply before connecting or disconnecting the cable the from TV.

FAILURE TO DO SO CAN DAMAGE THE TV.

#### EARTHING

The LNB cable MUST BE EARTHED to the system earth for the satellite dish.

#### LOCATION

Slots and openings in the cabinet are provided for ventilation to protect it from over heating. Do not block these openings or allow them to be blocked by placing the STB on a bed, sofa, or other similar surface, nor should it be placed over a radiator or other source of heat.

#### BATTERY HANDLING



# 2.0 General Introduction

#### INTRODUCTION

This manual will help you understand the basic functions of your new Receiver such as installation, general operation and many of the other features this STB offers. Please make sure that you retain this manual and pass it on if you sell or give away your STB in the future. All functions can be operated by the remote control. You can easily install this Receiver by following the INSTALLATION instructions on PAGE 6.

#### WARNING

The use of software versions other than that supplied by dealers or distributors will void the manufacturer's warranty. It is advised that only official software provided to you by your dealer or distributor should be used.

#### • UNPACKING

Unpack the unit and check to make sure that all of the following items are included in the box:









Digital Satellite Receiver

User's Manual

Remote Control

# 3.0 Controls and Functions

## 3.1 Front Panel:





Power Standby Button

**2 3 CH +/CH-**: Changes the channels in viewing mode and moves the selection Up/Down in menu mode.

The 4-digit display shows the current channel number The Red LED is the Power Indicator Signal Strength indicator

## 3.2 Rear Panel



- Dish-In: Digital satellite signal input via F connector with Cable supplied
- RS232C: Upgrade function. Connect to PC or another set top box
- Video: Connect to the video interface of TV (Yellow) supplied
- Audio-L: Connect to the left audio-channel of TV (White) supplied
- Audio-R: Connect to the right audio-channel of TV (Red) supplied
   N.B. If your TV does not have A/V phono socket Input (White, Red, Yellow), connect the leads to the Scart Adaptor supplied and use a Scart Socket for your TV connection.
- **Power Lead:** To 13A Plug Socket N.B.Power on after all other connections are plugged in.

## **3.3 Remote Control Unit**



## **3.4 Remote Control Functions**

Button	Function
0	Switches between Operation and Standby mode
2	Changes channels or selects menu options
3	Press to jump to previous channel
4	Selects your favourite channel list in view mode. PLEASE NOTE: To return to your normal CHANNEL LIST press "1"
5	Increases or decreases the volume. Changes the page of channel list
6	Displays the channel list and selects the item on the menu
7	To display the main menu, or return to a previous menu
8	Changes channels or items from top to bottom on the Channel or Menu lists
9	Press to enter or exit the Zoom mode
10	Freezes the screen
1	To select Audio Output (Left, Right or Stereo)
12	Turns the sound off (Mute) or on
13	Switches between TV and Radio modes
14	Accesses the Time & Timer Menu directly
15	To close the current menu and return to normal viewing
16	To show information about the current programme
1	Press to jump one page up (In Channel List)
18	Press to jump one page down (In Channel List)
19	Multi-picture function. 9 Channels per page displayed. Highlight a Channel and then press the M-P key again to view a live "PIP" image, press M-P

again to exit Live View

# 4.0 Installation Guide

## 4.1 STB Receiver Connection

A TV and Audio System can be connected to your STB. This manual will explain common ways to connect to the equipment. If you experience any problem, please contact the Ross helpline on **0845 194 7584**. **Never** connect or disconnect cables with the equipment switched on.

#### How to connect the STB to a TV set

**a.** Connect the colour coded (yellow, white, red composite cable supplied) to the A/V output sockets on the STB, and the other end of the cables to the A/V input sockets on your TV.

Or

- **b.** If your TV has no (yellow, white, red) input sockets, use the Scart adaptor supplied to connect to the Scart socket in your TV.
- c. Connect the satellite cable from your dish to the LNB IN input connector of your STB.

## 4.2 Getting Started

Now you have studied the Safety Instructions and understand the Inputs / Outputs and controls of your STB you are ready to complete the Installation and start watching!

At this stage **DO NOT** connect your STB to the mains supply.

This procedure assumes that:

(i) You will be tuning in your STB to the "ASTRA/EURO 1" Satellite which broadcasts most of the UK Programme content.

(ii) Your Satellite dish has been installed and aligned to the "ASTRA/EURO 1" Satellite. See separate instructions on how to do this.

Connect the STB to your TV and / or Audio System as described in "STB Receiver Connection". Make sure you set the Input of your TV to match the Input you are using for your STB. ie. AV

## 4.3 Preparing your Remote Control

Your Remote Control requires 2 x AAA (LR03) batteries to operate. Open the cover on the rear of the Remote Control and insert two batteries taking care to observe the polarity markings inside the compartment.

#### Please observe the following when using your Remote Control -

- Change the batteries when operation becomes poor or erratic.
- Always use two new batteries, DO NOT mix old and new.
- Dispose of old batteries in an environmentally responsible way.
- DO NOT place spent batteries in a fire or attempt to recharge them.

• If you are not going to use the Remote Control for an extended period then remove the batteries to avoid the risk of leakage.

## 4.4 Fast Satellite Set-Up

You are now ready to switch on and adjust your dish to complete alignment (for this refer to the seperate instructions). Turn on your TV and plug in your Satellite Receiver. Proceed as follows:-

- Press the "Power" button on your Remote Control or the "Standby" Button on the front panel of the Receiver to turn the unit on.
- Make sure your TV source is set to receive the signal from your Recevier.
- Press the "Menu" key, then using the ▲/▼ keys scroll down to the "Installation" menu.
- Press the > and select "Dish Setting" then press "OK".
- Your Receiver has a large number of the available Satellites already programmed in to make setting up easier for you. You can see the Satellite names to the left of the OSD (On-Screen Display).
- Using the ▲/▼ keys scroll to the "ASTRA / EURO1" Satellite No22 from the list on the left of the screen and press "OK".
- Now refer back to your "Satellite Dish Installation Guide" to fine tune your signal reception.
- Once you are satisfied with your signal levels as displayed in the two bars (Strength, Quality) towards the bottom of the Dish Setting Menu (try to obtain better than 50% for both) you are then ready to search for channels.
- Now press numeric key "3" (Search) and from the drop down menu on the right of the screen, as shown select: "Scan Class" - Auto, "Scan Mode" - FTA, "Network" - OFF, using the ▼ and </ ▶ keys scroll down to "Start Search" and the press "OK" button.



Dish S	etting	000
17 Turksat 10	Astra/	Euro1
18 Ku_ExpressAM	LNB Type	Universal
19 Eutel Se/W4	LNB Freq. 1	9750
20 C_Arabsat 2B	LNB Freq. 2	10600
21 Ku_Arabsat2B	LNB Power	Auto
22 Astra/Euro1		
23 Eutelsat W6	DiSEqC1.0	Off
24 Eutelsat W2	DiSEqC1.2	Off
Strength Quality		
Search (C) Select	K) Entroy MENU Esti	

Dish Se	atting	00
17 Turksat 10	Astra	Euro1
18 Ku_ExpressAM	LNB Type	Universal
19 Eutel Se/W4	LNB Freq. 1	9750
20 C_Arabsat 2B	LNB Freq. 2	10600
21 Ku_Arabsat2B	LNB Power	Auto
22 Astra/Euro1		
23 Eutelsat W6	DiSEqC1.0	0ff
24 Eutelsat W2	DiSEqC1.2	Off
Strength Ruality		

The STB will now start searching for programmes. A **"Progress"** bar appears at the bottom of the screen to show you how the channel search is progressing. This will take some time, do not interrupt the power or press any keys during this operation. When the scan is finished you will be prompted to save the results. Press **"OK"** to save. Your STB is now ready to use. You can now enjoy all the available channels from your chosen satellite.

#### **Frequently Used Operations**

a. Changing Programme, press the "OK" button to enter your channel list.

Use the CH $\blacktriangle$  and CH $\blacktriangledown$  keys to move up and down within your Programme List.

#### b. Changing Volume

Use the VOL▶ and VOL◄ to increase or decrease the volume. Alternatively you can leave the STB Volume set to maximum and control the sound via your TV Remote.

#### c. TV/RADIO

Press the "TV/RAD" key to change between TV and RADIO Programmes.

#### d. Programme List

Press the "**OK**" button when in viewing mode to display your list of Programmes. You can use the "**Page Up/Page Down**" keys to move through the list a page at a time or the  $\blacktriangle/\nabla$  to scroll through. Press "**OK**" to view.

#### BBC3 / BBC4

Please note that BBC3 and BBC4 share the same channel ID as CBBC and Cbeebies and will **NOT** be picked up by your satellite scan unless these channels are actually broadcasting at that time! It is normally better to scan in the evening to be sure to pick these channels up!





# 5.0 Menu Operation

## 5.1 Channel Edit

In this menu you can carry out a wide range of changes to your stored programmes (both TV and RADIO). The basic functions available are listed below and described in detail in the following paragraphs;

a. Delete

- b. Move
- c. Fav (Favourite)
- d. Lock
- e. Sort
- f. Del All
- g. Edit

Cha	nnel Edit	000
	1. TV Edit 2. Radio Edit	

#### 5.1.1 TV Edit

Press "**Menu**", then use the ▲/▼ to select "**Channel Edit**". Press the▶ key to select "**TV Edit**" and press "**OK**"

#### 5.1.2 Delete

If you want to delete a Programme or Programmes, using the  $\blacktriangle/\nabla$  keys scroll to the programme you wish to delete from the list on the left of the screen and then

 EVER
 COSO

 0020 BBC News
 ALL Satellite

 0030 BBC Parlanen
 11954/1/27500

 0033 SkJ Cellular
 11954/1/27500

 0033 SkJ Saterna En
 0035 Alzarena En

 0035 Alzarena En
 0035 Alzarena En

 0035 RT Russia Tod
 Hoke PD
 5001

 0035 BIC somerers TI
 DEK PD
 5001

 0035 BIC somerer TI
 DEK PD
 5001

press numeric key **"1"** (Delete). The programme you wish to delete will be marked with a <sup>(</sup>②". Repeat this procedure for any other programmes you wish to delete, then press **"Menu**". You will now be asked **"Do you want to save?"** Select **"OK"** to delete or **"Cancel"** to cancel, then press **"OK"**.

#### 5.1.3 Move

If you wish to move a programme, the procedure is similar to deleting a programme. Select the programme you wish to move and press numeric key "2" (Move). Your selected programme will be marked with "  $\clubsuit$ . Now use the  $\blacktriangle/\checkmark$  keys to move the programme to your desired location. Then press "**Menu**" to save or cancel the changes you have made as desired.

#### 5.1.4 Fav (Favourite)

To set up a programme or programmes as **"Favourites"** proceed as follows. Use the  $\triangle/\nabla$  to select the programme you wish to set as a favourite, then press **"3"** (Fav). The programme you wish to make a favourite will be marked with a **"\heartsuit"**. Now using the  $\triangle/\nabla$  keys select the category of favourite in which you wish to store the programme.

You can choose from five categories as follows; MOVIES, MUSIC, CARTOONS, NEWS SPORT and ADULT. When you have made your choice press "**OK**" (pressing "**OK**" again will cancel your selection) and then press "**Menu**" to store, your chosen programme will be marked with a "**V**". Repeat this process as many times as you wish to add other programmes to your favourite selections. When you have finished press "**Menu**" again, then select "**OK**" and press the "**OK**" key to store. Press the "**Exit**" button to exit the menu.

0061 CBBC Channel		in ju
0062 CITV	Movies	7
0063 Pop	Music	
0064 Pop Girl	Cartoons	*
0065 Tiny POP	News	
0066 Ki×!	Sport	
0067 Teachers TV	Adult	
0068 Inspiration T		Video
0069 Daystar TV		Audio
0070 Price-Drop tv		PCR F

**PLEASE NOTE:** When using your FAVOURITE Programme list you can return to your normal list of channels at any time by pressing the numeric **"1"** key when it is shown in the bottom left of your screen.

#### 5.1.5 Lock

**PLEASE NOTE**: Only Numeric keys should be used for your Parental Lock code number! The master all-purpose Factory code to unlock the receiver is "06101".

This feature enables you to prevent anyone viewing a particular programme without first entering the Parental Lock code number (default setting is 00000, Numeric digits only). Please note that you must have set "Channel Lock" to "On" in the "System Setting/Lock Control" menu before this feature will work. Proceed as follows. From the "TV Edit" channel list select the channel you wish to lock and then press numeric key "4" (Lock). Your selection will be marked with a lock symbol "ê". Repeat this process to lock any further channels and then press "Menu". Select "OK" and press the "OK" key to store. Press the "Exit" button to exit the menu.

#### 5.1.6 Sort

From the **"TV Edit"** menu directly press numeric key **"5"** (Sort). You will then be presented with three sorting options; **"A~Z"**, **"Z~A"** and **"Scan Order"**. Using the  $\blacktriangle/\checkmark$  keys select your preference and then press **"OK"** to execute. (Please note **"Scan Order"** returns the order of programmes to the listing that you had on completion of the scan). Then press **"Menu"**. Select **"OK"** and press the **"OK"** key to store. Press the **"Exit"** button to exit the menu.

#### 5.1.7 Del All (Delete All) [USE WITH CAUTION]

This function will delete ALL your programmes so should be used with caution. Proceed as with the **"Delete"** but note that pressing numeric key **"6"** (Del All) selects ALL PROGRAMMES for deletion.

#### 5.1.8 Edit PID [USE WITH CAUTION]

This feature enables you to alter the Video, Audio or PCR (Programme Clock Reference PID) PID's for a particular programme or to rename your Programme. This should only be used if you know what has been changed as an incorrect setting will prevent the reception of that particular programme. Proceed as follows. From the **"TV Edit"** channel list select the programme you wish to edit. then press numeric key **"7"** 

0017 E4+1	Astra/Euro1
0018 S4C Digidol	10729/V/22000
0019 More4	
0020 More 4 +1	
0021 CBS Drama	$\overline{}$
0022 CBS Reality	
0023 CBS Action	E4+1
0024 Zone Horror	Video PID 234
0025 Zone Horror +	Audio PID 234
0026 BET UK	PCR PID 234

(Edit). You can then select either "All Satellite" or a specific satellite of your choice using the  $\triangleleft/\triangleright$  keys. Then using the  $\triangleleft/\lor$  key select the item you wish to change and press "OK".

#### 5.1.8.1 Renaming the Programme

To rename a programme select the existing programme name from the dop down channel detail menu and press "**OK**". From the characters displayed select the " $\leftarrow$ " key and press "**OK**" to delete all or part of the old name. Then press the  $\triangleleft$ /**>** and  $\blacktriangle$ /**>** keys to select each character you require and "**OK**" to confirm each character. Finally go to **OK** at the bottom right of the keyboard menu to confirm and save the new name.

#### 5.1.8.2 Changing a PID

If you wish to edit a PID, use the  $\blacktriangle/\lor$  keys to select the PID to change and "**OK**" to confirm. You can now use the  $\blacktriangleleft/\lor$  and  $\blacktriangle/\lor$  keys to make the changes you require. Then press "**Menu**". Select "**OK**" and press the "**OK**" key to store. Press the "**Exit**" button to exit the menu.

## 5.2 Radio Edit

The procedure to edit a Radio as opposed to a TV Programme is identical. Therefore to edit a Radio Programme select the "**Channel Edit**" menu and then use the  $\mathbf{\nabla}$  key to choose "**Radio Edit**". Proceed as in **5.1** above.

# 12

# 6.0 Installation

This menu enables you to tune to a particular satellite and also to modify various associated settings. There is also a utility facilitating the calculations necessary to position your dish for a specific satellite given your own latitude and longitude.

## 6.1 Dish Installation

Within the "Dish Setting" menu there are 6 functions available as listed below;

- a. TP (Transponder)
- b. Edit Satellite
- c. Search Satellite
- d. Add Satellite
- e. Delete Satellite
- f. All (Not used in TP Menu)

Dish S	etting	00
17 Turksat 1C	Astra/	Euro1
18 Ku_E×pressAM	LNB Type	Universal
19 Eutel Se/W4	LNB Freq. 1	9750
20 C_Arabsat 2B	LNB Freq. 2	10600
21 Ku_Arabsat2B	LNB Power	Auto
22 Astra/Euro1		
23 Eutelsat W6	DiSEqC1.0	Off
24 Eutelsat W2	DiSEqC1.2	Off
Strength Quality		
TP 2 Edit 3	) Search 🖪 Add	: <b>5</b> Di

Press "Menu" then use the ▼ key to select

"**Dish Setting**" and then press "**OK**". This will take you into the "**Dish Setting**" screen from where all of the above functions can be accessed.

#### 6.1.1 TP (Transponder)

Using the ▲/▼ keys select the Satellite whose Transponders you wish to access, then press "1" (TP). Under this menu you can carry out a "Search" of a specific transponder, "Add" or "Delete" a transponder or finally select "All".

# Dith Satting Original 00110714/H/22000 Attra/Eurol 00210723/V/22000 10714/H/22000 00310744/H/22000 10714/H/22000 0031073/V/22000 Frequency 0051073/V/22000 Symbol Rate 0051073/V/22000 Symbol Rate 0051073/V/22000 Selection 0051073/V/22000 Selection 0051073/V/22000 Selection 00510730/V/22000 Selection

#### 6.1.1.1 TP Search

This feature enables you to search an existing Transponder for new programmes that may have been added or to search a new Transponder that you have added. To carry out a search of an existing or new Transponder first select the relevant Transponder and then press "3" (Search), you then need to set the "Scan Mode" using the *◄/▶* keys and then scroll down to "Start Search" and press "OK" to confirm. When the search has been completed , if new Programmes have been found you will be prompted to save them, select "OK" and press "OK" to confirm. If no new Programmes are found then the message "No new programmes found" will be displayed.

#### 6.1.1.2 Add a TP

Using this function you can "Add" a Transponder to the Satellite you have selected. To do this you need to know the Frequency, Symbol Rate and Polarity of the Transponder you wish to add. Press "4" (Add) then pressing "OK" use the numeric keys to fill in the "Frequency" of the new Transponder. Press "OK" to confirm and then use  $\checkmark$  key to select "Symbol Rate" and repeat the process as for "Frequency". Press "OK" to confirm and then use  $\checkmark$  key to select "Polarisation" using the  $\triangleleft/\triangleright$  keys to make your selection. Finally, confirm your changes by selecting and pressing "OK". You can then search your new transponder as detailed above in TP search.

#### 6.1.1.3 Delete

This can be used to delete any unwanted Transponders. First select the Transponder you wish to delete and press "**OK**" to confirm. Then press "**5**" (Delete) followed by "**OK**" to confirm and execute the deletion.

#### 6.1.2 Edit Satellite

This enables you to edit various aspects of a Satellite's settings, including;

- a. LNB Type b. LNB Freq 1 c. LNB Freg 2
- d. LNB Power
- e. DiSEgC1.0 (Motorised Dish)
- f. DiSEqC1.2 (Motorised Dish)

17 Turksat 1C	Astra/Euro1
8 Ku_ExpressAM	LNB Type Universal
9 Eutel Se/W4	LNB Freq. 1 9750
20 C_Arabsat 2B	LNB Freq. 2 10600
21 Ku_Arabsat2B	LNB Power Auto
22 Astra/Euro1	
23 Eutelsat W6	DiSEqC1.0 Off
24 Eutelsat W2	DiSEqC1.2 Off
Strength Quality	3/4.56 6 7/6

Proceed as follows; Select (highlight) the Satellite you wish to edit using the  $\blacktriangle/\forall$  keys and then press "**OK**" to confirm. Press numeric key "**2**" (Edit). Then using the  $\blacktriangle/\forall$ keys select the item from the drop down list on the right of the screen that you wish to modify and press "**OK**" to confirm. You can then use the  $\checkmark/\flat$  keys to make your desired changes, pressing "**OK**" to confirm when you have completed your change. This process can repeated for other parameters as required. Finally press "**Menu**" and confirm your change/s by selecting and pressing "**OK**".

#### 6.1.3 Search Satellite

This function allows you to carry out a search on a particular Satellite to add the programmes from that Satellite to your available Programme List. Proceed as follows; Select (highlight) the Satellite you wish to search using the  $\blacktriangle/\checkmark$  keys and then press "OK" to confirm. Press numeric key "3" Press numeric key "3" (Search). Then using the  $\bigstar/\checkmark$  keys select the item from the drop down list on the right of the screen that you wish to modify and press "OK" to confirm. You can then use the  $\blacktriangleleft/\triangleright$  keys to make your desired changes.

The available options are shown below:

- Scan Class:
  - a. "Auto" scan is used for satellites, whose TP information is preset in the STB
  - **b. "Blind"** scan is used when the TP information is not preset in the STB or if the TP information is out of date

Dish Se	otting OO(
20 C_Arabsat 2B	Scan Class 4 Auto
21 Ku_Arabsat2B	Scan Mode FTA
22 Astra/Euro1	Network Off
23 Eutelsat W6	Start Search
24 Eutelsat W2	
25 Eutelsat W1	
26 Sirius 3/2	
27 C_AsiaSat 3S	
Strength Quality	53% 00%

#### • Scan Mode:

- a. FTA (Free to Air)
- b. ALL (Includes encrypted programmes only available by subscription)

Network (in Auto Scan):	• Scan Type (in Blind Scan):
a. OFF	a. Quick
b. ON	b. Detail

**NETWORK ON/OFF** - When set to ON the Network Scans your selected SATEL-LITE for any additional NEW transponders. When set to OFF it scans only the preloaded factory list.

Having made your selections use the **"OK"** key to select **"Start Search"** and then press **"OK"** to confirm. A **"Progress"** bar appears at the bottom of the screen. The search process may take some time, do not power off or press any keys whilst the search is taking place.

On completion you will be asked "Do you want to save", press "OK" to confirm.

#### 6.1.4 Add Satellite

Here you can add a new satellite. Press **"4"** (Add). The default name of a new satellite is **"New Sat"**. Press OK to rename it.

Select the "←" key at the bottom right of the keyboard and press the "OK" button at the bottom right hand corner of the keyboard to delete "New Sat". Then select each character you require and "OK" to confirm each character. Finally go to "OK" at the bottom right hand corner of the key board to confirm and save the new name. Now enter all the parameters listed on the right hand of the screen using the ▲/▼/◀/▶ and numeric keys

Dish Setting 000		
17 Turksat 1C	New Sat	
18 Ku_ExpressAM	LNB Type User	
19 Eutel Se/W4	LNB Freq. 1 5150	
20 C_Arabsat 2B	LNB Freq. 2 5150	
21 Ku_Arabsat2B	LNB Power Auto	
22 Astra/Euro1	22k Off	
23 Eutelsat W6	DiSEqC1.0 Off	
24 Eutelsat W2	DISEqC1.2 Off	
Strength Quality	54% 00%	
the second s		

as required. Finally, press **"Menu"** and then select **"OK"** pressing to confirm and save your new Satellite. You can now Search for Programmes on your new Satellite following the procedure in **6.1.3**.

#### 6.1.5 Delete Satellite

This can be used to delete any unwanted Satellites. Select the Satellite you wish to delete from the drop down list on the left of your screen and press **"OK"** to confirm (a red flag will appear). Now press **"5"** (Delete) and you will be asked **"Do you want to save"**. Select and press **"OK"** to confirm and your selected Satellite will be permanently deleted.

### 6.2 Satellite Guide

This useful feature provides you with a calculation for the Orientation and Elevation of a Satellite when you in put the following information:

Local Longitude Local Latitude Satellite Longitude

Satellite	Guide 000
Local Longitude	000.00
Local Latitude	000.00
Satellite Longitude	000.00
Ca	lculate
Orientation	Eltawardau)
Orientation	Elizovatilan
Orientation 000.00 0-North,	Elawathan 000.00 0-Hartsontell

Using the A/V/ </ b and numeric keys as required and the "**OK**" to select and confirm enter the data. Then select "Calculate" and press "**OK**". The set up information for your Satellite will now be displayed. This can be used to set up your Satellite Dish exactly to the required settings.

# 7.0 System Setting

This Menu provides access to various settings relating to the general operation of the receiver. Press **"Menu"** and then using the  $\blacktriangle/\nabla$  keys select **"System Setting"**. Press the  $\blacktriangleright$  key to enter the "System Setting" menu. There are six options as follows:

a. Languageb. Menu Settingc. Lock Controld. AV Settinge. Time and Timer





#### 7.1 Language

Press the  $\blacktriangle/\forall$  keys and select "Language". Then press the  $\triangleright$  key and then the  $\checkmark/\forall$  to select your chosen language (default is ENGLISH"). Press "Menu" and then select "OK" and press to save your choice.

#### 7.2 Menu Setting

Here you can adjust various aspects of your on screen display, such as;

- a. Transparency
- b. Menu Style
- c. Brightness
- d. Warm (Red)
- e. Cold (Blue)

Language	Transparency
Menu Setting	Menu Style
Lock Control	Brightness
AV Setting	Warm(Red)
Time&Timer	Cold(Blue)
set to Factory	

Press the  $\bigstar/\blacktriangledown$  keys and select "Menu Setting".

Then press the  $\blacktriangleright$  key and then the  $\blacktriangle/\blacktriangledown$  to select

the parameter you wish to change. Then using the  $\Lambda/\nabla/\langle A|$  and numeric keys as required make the changes you wish pressing the **"OK"** key to confirm. When you have finished press **"Menu"** and then select **"OK"** and press to save your choice.

#### 7.3 Lock Control

This is used to prevent inadvertent changes to the setup of the Receiver or to restrict the access to certain programmes which may be unsuitable for younger members of your family.

#### 7.3.1 Menu Lock

Press the  $\blacktriangle/$  keys and select "Lock Control". Press the key, you will then be prompted to enter your password (the default is 00000). Using the  $\forall$ key, scroll down to "**Menu Lock**" and then using the  $\triangleleft/$  set to "**On**". Press "**Menu**" and then select "**OK**" and press to save your choice. If you now wish to enter the "**Menu**" the password will have to be inputted to gain access.

Old Password	
Menu Lock	0ff
Channel Lock	Off
New Password	
Confirm	

#### 7.3.2 Channel Lock

Press the  $\blacktriangle/$  keys and select "Lock Control". Press the key, you will then be prompted to enter your password (the default is 00000). Using the  $\checkmark$  key, scroll down to "Channel Lock" and then using the  $\checkmark/$  set to "On". Press "Menu" and then select "OK" and press to save your choice. You can now "Lock" any programmes you wish. Refer to section 5.1.5 for instructions on how to do this.

#### 7.3.3 Changing Your Password

It makes sense to change your password from the Factory Default "00000" to something of your choice. However MAKE SURE you WRITE DOWN the new Password and keep it safe.

#### Proceed as follows;

Press the ▲/▼ keys and select "Lock Control". Press the ▶key, you will then be prompted to enter your password (the default is 00000). Using the ▼ key, scroll down to "New Password" and enter your new password using the numeric keys. You will then be asked to confirm your new password by entering it again in "Confirm". After entering you will asked "Do you want to save?" select "OK" and press to save your new password.

#### 7.4 AV Setting

This enables you to set your Video System to match your TV. Options are;

- a. TV Type b. Screen Type
- 7.4.1 TV Type: The choices here are;

a. Auto b. PAL c. NTSC

AV Set	ting	0	00
ТV Туре	4	Auto	Þ
Screen Type		4:3	

The Factory Default is **"Auto"**. It should not normally be necessary to change this.

## 7.4.2 Screen Type options:

a. 4:3 b. 16:9

Select the format that you require then press "**MENU**". You will then be asked "**Do you want** to save?" select "**OK**" and press to save your selection.

#### 7.5 Time and Timer

Whilst the time is set automatically from the received broadcasts there is an option to adjust the offset from GMT if required. It is also possible to adjust the **"Sleep Timer"** from this menu, the choices being -0, 10, 30, 60, 90 and 120 minutes. In practice it is recommended to do this directly using the **"Timer"** button on the Remote Control as this is more convenient.

#### 7.6 Reset to Factory (USE WITH CAUTION)

This feature enables you to return the Receiver's settings back to how they were when it left the factory. Please be aware that it removes all the changes to settings that have been made and any stored programmes etc. Press the  $\blacktriangle/\blacksquare$  keys and select "**Reset to Factory**". The screen will display "**Reset to Factory**" and you will be requested to confirm or cancel ("**Cancel**" is highlighted). If you have pressed "**Reset to Factory**" by accident, press "**OK**" NOW to cancel the operation. If you really wish to reset your receiver use the  $\blacktriangleleft$  to select "**OK**" and then press the "**OK**" button to confirm. You will now be asked to input your password. Once you have entered your password the Receiver will be immediately reset.

# 8.0 Utility

Press "**MENU**" and then using the  $\blacktriangle/\nabla$  keys to select "**Utility**". Press the  $\triangleright$  key to enter the "**Utility**" menu.

There are three functions as follows:

- a. Upgrade
- b. System Information
- c. Calendar

#### 8.1 Upgrade

This enables the receiver software to be upgraded. If this becomes necessary then you will need the following:

2	Utility 000	
	1. Upgrade	
5-0	2. System Info	
	3. Calendar	

- a. A PC (or laptop)
- b. A special RS232 cable
- c. Software Programme to use for loading your new Receiver software.
- d. Your new Receiver software.

Please contact your Ross Helpline for assistance if an upgrade becomes necessary. Instructions on how to perform the upgrade will then be provided for you.

#### 8.2 System Info

This feature provides information on the software version etc. installed on your receiver. Select "System Info" using the  $\blacktriangle/\lor$  keys and then press "OK" to view. Press "OK" to exit the information screen.

#### 8.3 Calendar

The Receiver has a built in Calendar which covers the years from 1910 - 2050. Select "Calendar" using the  $\Delta/\nabla$  keys and then press "OK" to view.

Use the A/V/ </ keys to select the Year and Month you wish to view.

# 9.0 Troubleshooting

Should you encounter problems whilst using your Receiver please refer to the table below for helpful information before contacting your Service Company or Dealer for help as problems are often easily resolved.

Problem	Possible Cause	Possible Remedy
Power on, but no display on screen	Please carefully check the power plug, to see if it is firmly located in the wall socket and switched on. Is the power interrupted?	Connect the power plug to the socket on the wall.
Power on the STB, then the screen displays "No signal"	Is the dish installation correct?	Carefully re-align the dish.
uispiays no signal	LNB input is not connected.	Connect the LNB
	The Satellite is not transmitting	Try another Satellite
	Weather conditions are affecting reception, e.g. snow	Attempt again later
	The program setup or system settings are incorrect	Set the correct parameters for the received programme in the system settings menu
Audio is incorrect	The received Programme is being transmitted in more than one language.	User can use the "Audio" button on the Remote to select the correct audio track or audio languages

# 10.0 Glossary

#### (1) 22KHz switch

A tone that can be sent via the LNB coax, this tone can control the LNB or switches on the coax cable. Do not interfere with the DC or 22KHz tone that the receiver sends to the dish.

#### (2) Antenna

A device that collects electromagnetic waves includes a satellite dish and a broadband antenna.

#### (3) CVBS

Composite Video Blanking and Sync, Standard single-wire video, mixing luminance and chrominance signals together.

### (4) DiSEqC

Digital Satellite Equipment Control, a protocol established by the EUTELSAT organization www.eutelsat.com, the most popular standard are DiSEqC 1.0 for Switching solution, DiSEqC 1.2 for Dish actuator solution. Used for motorized dishes.

#### (5) Forward Error Correction (FEC)

A system of error control for data transmission

#### (6) Frequency

The number of cycles or events per one second, which is expressed in the unit of Hertz(Hz)

#### (7) Intermediate Frequency (IF)

A frequency to which a carrier frequency is shifted as an intermediate step in transmission or reception

#### (8) Low Noise Block (LNB) Downconverter

A low noise microwave amplifier and converter which downconverts a range of frequencies to IF range

#### (9) NTSC

National Television Standards Committee, a video standard established by the United States (RCA/NBC) and adopted by numerous other countries.

#### (10) PAL

Phase Alternate Line, a video standard used in Europe/UK and other parts of the world for composite colour encoding

#### (11) Packet Identifier (PID)

A set of numbers that identifies transport stream packets containing data from a single data stream

#### (12) Polarization

Satellite waves are polarized. They can be linear or circular. Linear polarity is Vertical or Horizontal, circular polarity is Right-hand and Left-hand circular polarity.

#### (13) Quadrature Phase Shift Keying (QPSK) Modulation

Phase-shift keying in which four different phase angles are used.

#### (14) RF

A frequency that is useful for radio transmission, usually between10KHz and 300,000Mhz.

#### (16) STB

Set Top Box, another common name for a Digital Satellite Receiver, because it would usually be put on top of a TV. This acronym is common worldwide.

#### (17) Symbol Rate

The amount of data transmitted every second.

#### (18) Transponder (TP)

Equipment in a satellite which receives a single uplink channel from a satellite earth station, amplifies it, converts the frequency and changes the polarization, then broadcasts it back to earth.

#### (19) Transport Stream

The bit stream formed prior to transmission of signals by combining the video, audio and data streams of one service. It consists of fixed length packets of 188 bytes of data.

# 11.0 Specification

1. Tuner & Demodulator	
Input Frequency Range:	950MHz to 2150MHz
RF Input Signal Level:	-65dBm to-25dBm
RF Impedance:	75W
RF Impedance:	55MHz/8MHz(Under 5 Msps)
LNB Power:	13/18DC, +/-5%, 0.5Amax, 1.8Apeak overloaded protect
LNB Tone Switch:	22KHz +/- 2KHz, 0.65Vp-p+/-0.15V
DiSEqC Control:	V1.0, V1.2,
Demodulation:	QPSK
Symbol Rate:	1 ~ 45Msps/SCPC, MCPC

### 2.MPEG

Transport Stream:	MPEG-2 ISO/IEC 13818 Transport Stream Specification
Input Rate: Video	Max.15Mbit/s
Video:	MPEG-2 MP@ML
Audio :	MPEG-1/2 Audio Layer1 or layer2
Video Resolution:	720 x 576(PAL), 720 x 480(NTSC)
Audio Mode:	Stereo, Dual channel, Joint stereo, Mono
Audio Sampling Frequency:	32/44.1/48KHz

## 3. Connector

LNB IF input	F type, IEC 169-24 Female
Composite/RCA:	AUDIO L, R, VIDEO (White, Yellow, Red).
Serial Port	Rs232 D-sub male type(max 57.6 Kbps)

## 4. Power Supply

Input Voltage:	100-240V~, 50/60Hz.
Power Consumption:	Max.25W
Weight:	Appr. 1.8KG
Operating Temperature:	0°C - 40°C
StorageTemperature:	-40°C - 65°C





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