



SKYLINE 3000

Digital Satellite Receiver With Common Interface

Instruction Manual (English)

www.manhattan-receivers.com

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INTRODUCTION

Welcome to the world of our new digital satellite receiver that will make your life richer and closer to your dream. Before using your new receiver, we suggest that you read this manual carefully for your own safety and correct operation of the system.

The **SKYLINE 3000** is an advanced digital satellite receiver with common interface (CI) which can store up to 5000 channels (TV and Radio collectively). The receiver is designed to cope with the many different operating requirements often imposed by different broadcast standards and program providers world-wide. During development, we have evolved the best possible solutions to create the next generation of satellite receivers together with the most up-to-date electronics and easy to use on-screen menu system. The new digital satellite receiver is designed to give you outstanding pictures and CD-quality audio with a touch of a button.

Before you install and operate the receiver, please read the following safety notice.

SAFETY NOTICE

DANGER ! HIGH VOLTAGE ! RISK OF ELECTRIC SHOCK !

- Do not open the top cover. Lethal high voltages are present inside the receiver.
- Always unplug the receiver from the mains outlet before connecting or disconnecting anything.
- Never expose the receiver to water, moisture, extreme cold or direct sunlight.
- Slots on the top cover are provided for appropriate ventilation of the unit, do not obstruct these.
- Do not insert or drop small objects into the receiver.
- Install the receiver in a well-ventilated location.
- Never cover the receiver or operate it near any heat source.
- It is advisable to unplug the receiver from the mains, TV, and the satellite dish when a thunderstorm is expected.
- Please refer all servicing to qualified service agents.

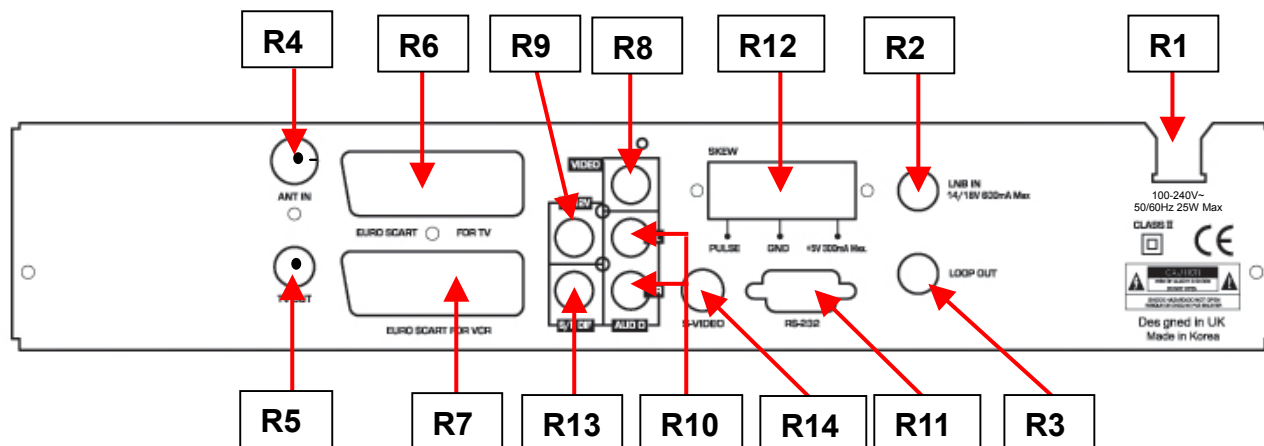
CLEANING YOUR RECEIVER

- Always unplug the receiver from mains outlet before cleaning the unit.
- Do not use solvents of any kind to clean the unit, only use a soft-dry cloth.

FEATURES

- 1 LNB input (F- type), IF signal loop through
- DVB Common Interface with 2 CAM slots
- Symbol rate, 2-45 Ms/Sec
- Up to 5000 channels TV or Radio programmable
- SCPC and MCPC receivable from C/Ku band satellites
- Up to 50 satellite position memory using DiSEqC 1.2 Motor
- Fully automatic Scan & Store of TV & Radio channels of up to 20 selected satellites using DiSEqC 1.2 Motor
- Fully automatic Scan & Store of TV & Radio channels of up to 4 selected satellites using DiSEqC switch
- On screen language support up to 13 languages
- Channel search option by NIT (Network Information Table), TP, Bouquet, FTA, Scrambled, or ALL
- Totally new GUI (Graphic User Interface) concept
- EPG access for on screen channel information
- Built in Teletext function
- Subtitle function
- Parental control facility by channel and menu locks
- Multiple controllable LNB switching e.g. 0/12V, 14/18 volts, skew (mechanical polariser), 22KHz and DiSEqC 1.2
- DiSEqC 1.3 with USALS function
- Displays on screen message for antenna movement using DiSEqC positioner
- Supports Universal, Single, Single-S, & Wide Band LNB applications
- 22 different favourite groups (11 TV & 11 Radio) with ability to categorise & re-categorise each group
- Signal strength and signal quality indication bars with percentage indication
- Last viewed channel remembered after power down
- Last Channel recall facility
- Real time display on channel Info bar & on front panel display in standby mode
- Full Editing functions (Add, Delete, Name & Move) Channel, TP, & Satellite
- Receiver to receiver full channel data copying facility
- 1 Year, 10 event VCR timer facility
- Digital audio output (S/P DIF) on RCA
- Multiple audio selection (L/R, Stereo & Mono)
- Picture in Menu
- Programmable sleep timer up to 2 hours.
- Supports Multiple language broadcast
- Multi language instruction manual (English, French, German)
- LNB short circuit protection incorporated
- 100 – 240V AC 50/60 Hz SMPS
- 4 Digit LED display
- 2 Scart, TV (CVBS/RGB) with VCR loop through facility
- RS – 232 port for PC connections and software upgrade
- 4 RCA sockets (Audio L/R, Video, 0/12V)
- PLL RF Modulator (CH21—CH69, PAL B/G, I, K, PAL M, NTSC M)

REAR PANEL CONNECTIONS



CONNECTORS AND DEFINITIONS

Please do not connect the power to the receiver until all other connections have been made and checked. Please refer to diagram above for connections.

R1: AC IN (Power Cord)

Connect this lead to the mains outlet (100-240 V AC 50/60 Hz) after all other connections have been made.

R2: LNB IN (IF Input)

Connect the IF cable from your LNB on your dish to this connector.

R3: LOOP OUT

If you have a second satellite receiver, connect the receivers LNB input to this connector.

R4: ANT IN

Connect your UHF TV antenna to this connector.

R5: TV OUT (UHF Modulator Output)

Connect your TV or VCR to this connector.

R6: TV SCART

Connect your TV via a SCART cable to this connector.

R7: VCR SCART

Connect your VCR via a SCART cable to this connector.

R8: VIDEO

Composite video output for connecting to an AV monitor etc.

R9: 0/12V

Switched + 12V DC output for use with LNB switches.

R10: AUDIO LEFT / RIGHT

Audio outputs for connecting to a HiFi system.

R11: RS-232

Connect your PC via this connector using a NUL female to female RS232 cable when you wish to upgrade the system software. Alternatively this connector is also used for channel data transfer from another receiver of the same make and model type.

R12: PULSE, GND, + 5V

Connectors for a MECHANICAL POLARISER

R13: S / PDIF

Digital audio output for connecting to a HiFi system.

R14: S-VIDEO

Additional video output for recording with a VCR or CAMCORDER with S-VIDEO capability.

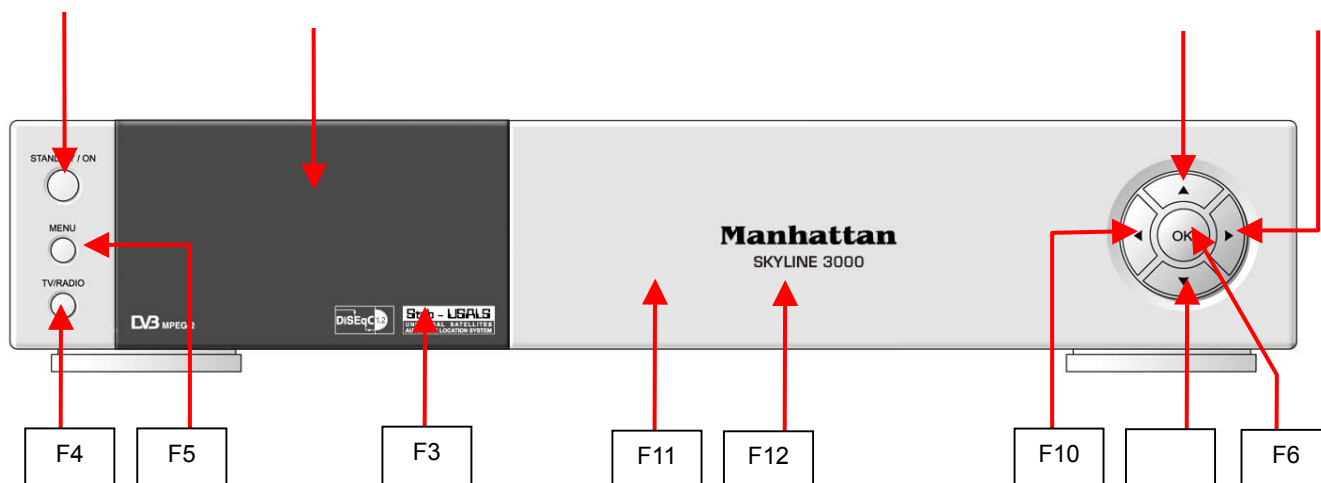
FRONT PANEL CONTROLS

F1

F2

F7

F9



CONTROLS AND DEFINITIONS

F1: STANDBY / ON

After connecting the mains power, press this button to switch ON the receiver or to switch to STANDBY

F2: DIGIT LED DISPLAY

This will display the current channel or certain programming functions when using the menus. In standby mode this will display the time.

F3: REMOTE CONTROL SENSOR

Location of the infrared receiver. Ensure that this is not obstructed when using the remote control.

F4: TV / RADIO

Press this button to change from TV channels to RADIO channels and vice versa.

F5: MENU

Press this button to access the programming menus. To exit the menus press it again.

F6: OK

In viewing mode press this button to display channel list. In menu mode this button is used in conjunction with the menu functions to change or enter the programming parameters.

F7: CH UP

In programming mode this button will move the cursor (highlighted) upwards to facilitate selection. In normal operation mode it is used to step up channels sequentially.

F8: CH DOWN

In programming mode this button will move the cursor (highlighted) downwards to facilitate selection. In normal operation mode it is used to step down channels sequentially.

F9: VOL UP

In programming mode this button will move the cursor (highlighted) to the right to facilitate selection. In normal operation mode it will increase the sound.

F10: VOL DOWN

In programming mode this button will move the cursor (highlighted) to the left to facilitate selection. In normal operation mode it will decrease the sound.

F11: COMMON INTERFACE (CI) SLOTS A AND B

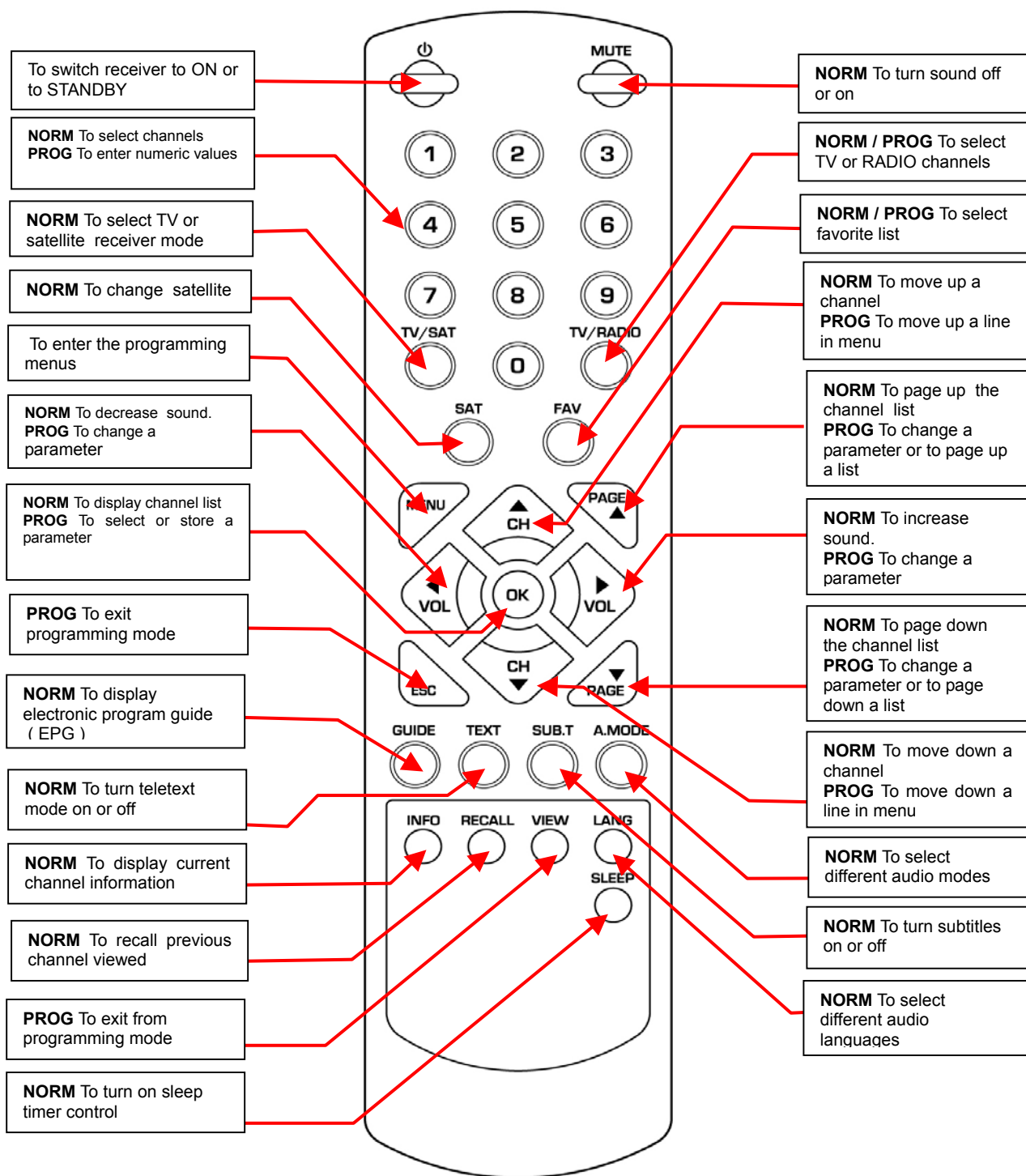
Your receiver is equipped with two Common Interface slots (located behind the front flap) accepting Type 1 and Type 2 PCMCIA modules. Open flap from top right hand side and Insert your CI module together with valid smart card into either of these slots.

F12: CI SLOTS A AND B EJECT

When you want to remove a cam press the eject button.

REMOTE CONTROL FUNCTIONS

We recommend that you familiarize yourself with the remote control handset prior to installing the receiver.

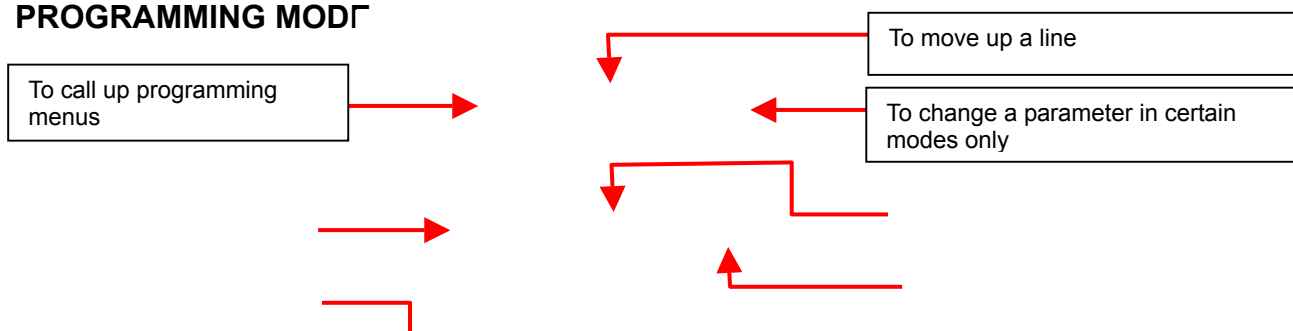


NORM Operation in normal viewing mode

PROG Operation in programming mode

INFORMATION

PROGRAMMING MODE



To change a parameter or to move to left

To exit from programming

To move down a line

To enter or confirm a parameter

To change a parameter or to move to right

To change a parameter in certain modes only

The receivers programming menus are designed to assist you from the moment you switch on the receiver. When programming, the help messages will appear at the bottom of the menu indicating each function associated with the menus.

INSTALLATION

To appreciate digital quality picture, connect your receiver to your TV using a fully wired SCART cable. Alternatively if you connect your TV using a UHF co-axial lead, then follow below steps for tuning your TV to the receiver's UHF channel output. The receiver has been factory set to channel 64.

Tuning your TV to UHF channel output

Connect your receiver to the mains supply and press the STANDBY / ON button to switch on the receiver. The channel display (F4) will display "NOCH".

1. Select a spare channel on your TV for use with your satellite receiver and tune your TV until you see **OSD SETUP** menu on your screen as below.
2. Press ESC button once and the menu should change to **TV SETTINGS**. Now select the TV Standard for your TV. Example PAL I for United Kingdom. Press VOL up / down to select.
3. After above settings if you experience picture interference (e.g. from your VCR) change the **UHF Channel 64** to a different one and store the settings. Then retune your TV to the new channel.



SYSTEM MENU: OSD SETUP

Language: Press VOL up / down to change the language for the menus.

Color: Press VOL up / down to change the background color for the menus.

Transparency: Press VOL up / down to adjust the transparency of the channel banner and the channel list.

STORE: Press OK to store the above settings.



SYSTEM MENU: TV SETTINGS

TV Standard: If you have connected your TV using the TV OUT connector (R5), press VOL up / down to select the output for your TV. For UK select PAL I. If your TV supports 'Auto Sensing' then you may select Auto.

Screen Format: Press VOL up / down to change the picture output format for your TV.

Video Output: Press VOL up / down to change the signal output for your TV. If the teletext function on your TV does not work when viewing channels from other sources such as terrestrial TV, select COMP mode.

UHF Channel: If you have connected your TV using the TV OUT connector (R5), press VOL up / down if you need to change the channel.

Audio Output: Press VOL up / down to change the output audio signal to your TV.

STORE: Press OK to store the above settings.

SYSTEM MENU: TIME SET



When the receiver is in standby mode, the front panel display will indicate the time after setting as below. The time will also be displayed on the channel banner and when in TIME SETTINGS menu.

Year: Press VOL up / down to select the current year.

Month: Press VOL up / down to select the month.

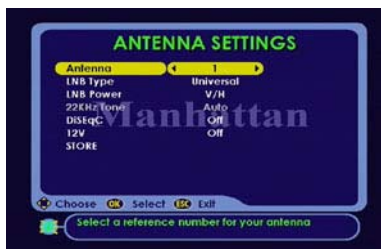
Day: Press VOL up / down to select the day (date) of the month.

Hour: Press VOL up / down to select the hour of the day.

Minute: Press VOL up / down to select the minutes of the hour.

STORE: Press OK to store the above settings.

Configuring your antenna



INSTALL MENU: ANTENNA SETTINGS

By default your receiver is preset to UNIVERSAL LNB for all antenna numbers (1-50). If you are using one antenna and one Universal LNB, then you do not need to change any settings. However you can re-program these to your requirements when using two or more LNB's and antennas.

LNB TYPE AND LOCAL OSCILLATOR (LO) SETTINGS

- **Universal** --- Low 9750, High 10600, 22KHz tone selection is automatic.
- **Single** ----- 10750, 22KHz tone can be set on or off.
- **Single – S** --- 5150, 22KHz tone can be set on or off.
- **Wide** ----- Low 9750, High 10750, 22KHz tone can be set on or off.

You can change the LO figure for any of these settings to suit your LNB.

LNB POWER

- **V / H** ----- Vertical 14V and Horizontal 18V for voltage switching type.
- **14V Skew On** ----- 14V Low band for mechanical polarizer type.
- **18V Skew On** ----- 18V High band for mechanical polarizer type.
- **Off** ----- No power output.

Antenna: Press VOL up / down to select a reference number for each antenna you are using.

LNB Type: Press VOL up / down to select the type of LNB you are using. After selecting press OK to configure LO settings if different from above.

LNB Power: Press VOL up / down to select the power output to your LNB.

22KHz Tone: When using other than Universal LNB, press VOL up / down to select tone status.

DiSeqC: If you are using more than one LNB for fixed installation using a DiSeqC switch, press VOL up / down to configure the ports on the switch. See below example

12V: If you want 12 volts output to control LNB's with a relay type switch, press VOL up / down to turn on 12 volts.

Please note that after setting, the 12 volts will turn on when channel search is activated.

STORE: Press OK to store the above settings.

EXAMPLE: SETTING DiSeqC SWITCH CONTROLS

To set the switch to four different satellites.

Antenna 1 For Astra 1 19.2E, select **DiSeqC 1**

Antenna 2 For Astra 2 28.2E select **DiSeqC 2**

Antenna 3 For Hotbird 1-5 13E, select **DiSeqC 3**

Antenna 4 For Thor 2,3 0.8W, select **DiSeqC 4**

Setting your DiSeqC antenna positioner

If you are using a DiSeqC 1.2 antenna positioner then you can search and download up to 20 satellites automatically using DiSeqC 1.3 menu. Further satellites can still be programmed individually. Follow below steps for settings.



INSTALL MENU: CHANNEL SEARCH (with DiSeqC 1.2 positioner sub menu)

SETTING LIMITS Select CHANNEL SEARCH and move down to Positioner line. Press VOL up / down and select DiSeqC 1.2 then press OK and set the East and West limits

MOVE: Press VOL up / down to move antenna furthest possible east or west then enter on below lines.

East Limit: After furthest east, press (

West Limit: After furthest west, press OK and it will store the limit here

Erase Limits: If you need to clear the limits, press OK and the limits will indicate 'None'

0 Position: If you need to move antenna to 0 position as indicated on the DiSeqC positioner, press OK.

Re-sync: If you need to re/sync the positions, first find one satellite then move down to 'Re-sync' and press OK.

STORE: Press OK to store the above settings.

INSTALL MENU: CHANNEL SEARCH (with DiSeqC 1.3 positioner sub menu)



Select CHANNEL SEARCH and move down to Positioner line. Then press VOL up / down and select DiSeqC 1.3 and enter your geographical location referring to the DiSeqC motor instructions and maps.

My Longitude: Enter numeric value using 0-9 buttons and then use PAGE up / down buttons to enter E (East) or W (West) location.

My Latitude: : Enter numeric value using 0-9 buttons and then use PAGE up / down buttons to enter N (North) or S (South) location.

EXAMPLE: London – Longitude = 0 and Latitude = 51,0N

USALS: (Universal Satellites Automatic Location System) Press OK to move antenna to a predefined satellite position.

0 Position: If you need to move antenna to 0 position as indicated on the DiSeqC positioner, press OK.

STORE: Press OK to store the above settings.

Automatic scan and search : Multi Satellites



INSTALL MENU: CHANNEL SEARCH

AUTOMATIC SCAN AND SEARCH: SATELLITE AND TP

If you are using a DiSeqC 1.2 antenna positioner then you can search and download up to 20 satellites automatically. Follow below steps for settings.

1. Search Index: Set index numbers for each satellite you wish to search. Press VOL up / down to change the number.

2. Antenna: If you are using more than one LNB, select antenna reference as configured previously. If you are using one LNB then this may remain as 1. Press VOL up / down to change number or to switch from Off.

3. Satellite: Press VOL up / down to change satellite name and remember that you have to select a different name for each search index number.

4. Search Mode: Select search type for each satellite you wish to do. See below for types. Press VOL up / down to change type.

Auto All – To search automatically all TP's for all channels

Auto FTA – To search automatically all TP's for free to air channels only

NIT All – To search network index table for all channels

NIT FTA – To search network index table for free to air channels only

TP All – To search selected TP's for all channels. To select TP's move to TP Data and press OK for sub menu and press OK on TP's you wish to search. Press ESC after selecting.

TP FTA -- To search selected TP's for free to air channels only. To select TP's move to TP Data and press OK for sub menu and press OK on TP's you wish to search. Press ESC after selecting.

Manual All – To search a single TP for all channels. To select TP, move to TP Data and press OK for sub menu. Press VOL up / down to change TP and press OK.

Manual FTA – To search a single TP for free to air channels only. To select TP, move to TP Data and press OK for sub menu. Press VOL up / down to change TP and press OK.

Repeat steps 1 – 4 for all the satellites you wish to scan and search then proceed with below.

5. Positioner: Provided that the antenna positioner is already configured, press VOL up / down to change and select DiSeqC 1.3

6. START: After above configuration move down to START and press OK to commence search. Once the antenna has moved to the first satellite (ref: Search Index 1) The screen will change as below showing TV and Radio channels whilst downloading. After download it will store automatically and move to the next satellite. When the antenna has stopped moving it will start search automatically. This process will be repeated automatically for all satellites you have configured.



Channel search : Individual satellite

To tune satellites individually or to add more satellites after multi satellite search, follow below steps.

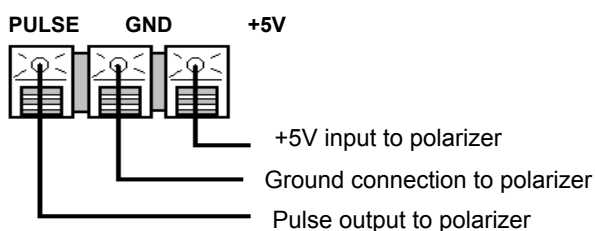
INSTALL MENU: CHANNEL SEARCH

- 1. Search Index:** You do not need to set anything here. The reference can be left as 1.
- 2. Antenna:** Select antenna reference as configured previously. If you are using different LNB type, then select that reference. Press VOL up / down to change reference number.
- 3. Satellite:** Press VOL up / down to change satellite name.
- 4. Search Mode:** Select search type for the satellite you wish to search. See types indicated on page 9. Press VOL up / down to change type.
- 5. TP Data:** Select a predefined TP. Press OK to display sub menu then press VOL up / down to change TP. Finally press OK on the selected TP. This TP will then be entered on the main channel search page.
- 6. Positioner:** If you are using a DiSEqC antenna positioner then select one of the options from below. Press VOL up / down to change and press OK for sub menu. If you only have a fixed antenna installation then select 'None' and proceed with step 7 below.
 - A) Using DiSEqC 1.2 menu to manually move the antenna until you find the correct position and signal. When in this menu, select 'MOVE' then press VOL up / down to move the antenna until you find the correct position at the point when signal bar turns green and is at maximum. Then select STORE and press OK. This will store the satellite position.
 - B) Using DiSEqC 1.3 menu to automatically move the antenna to the correct position. When in this menu select 'USALS' and press OK. The antenna will automatically move to the correct position. After the antenna has stopped moving, the signal bar will turn green indicating presence of signal. Then select STORE and press OK.

7. START: After above configuration move down to START and press OK to commence search. The screen will change as above indicating TV and Radio channels whilst downloading. When download is completed it will store the channels automatically.

Using a mechanical polarizer for your LNB

For pre-positioned or fixed antenna installation follow below steps. Connect the appropriate leads to the output terminals (R12) at the back of the receiver as below.



INSTALL MENU: ANTENNA SETTINGS

- 1. Antenna:** Press VOL up / down and select reference 1
 - LNB Type:** Press VOL up / down and select 'Wide'. After selecting press OK to configure LO settings if different.
 - LNB Power:** Press VOL up / down and select '14V Skew On'. This will switch your LNB to lower band.
 - STORE:** Press OK to store the settings.
- 2. Antenna:** Press VOL up / down and select reference 2
 - LNB Type:** Press VOL up / down and select 'Wide'. After selecting press OK to configure LO settings if different.
 - LNB Power:** Press VOL up / down and select '18V Skew On'. This will switch your LNB to higher band.
 - STORE:** Press OK to store the settings.
 - 22KHz Tone:** When using other than Universal LNB, press VOL up / down to select tone status.

INSTALL MENU: CHANNEL SEARCH

- 3. Antenna:** Press VOL up / down and select reference 1
- 4. Satellite:** Press VOL up / down and select satellite name.

5. **Search Mode:** Press VOL up / down and select the type of search.
6. **TP Data:** Press OK and select a lower band TP. Press OK on selected TP.
7. **LNB Skew:** Press VOL up / down to adjust skew until you see maximum signal (green) on the signal bar.
8. **START:** Press OK to start search. This will tune all channels relating to the skew polarity in lower band.
9. When above is finished, repeat steps 3 to 8 by selecting 'Antenna 2' and selecting a TP from higher band. This will tune all channels relating to the skew polarity in the higher band.

Changing satellite or channel in viewing mode

There are two ways of changing to a different satellite or channel as below.



BY PRESSING - OK

Whilst watching any channel press OK and the channel list will come up on your screen.

TO SELECT A CHANNEL WITHIN THE SAME SATELLITE

Press CH up / down to scroll through the list individually or press PAGE up / down to change the page. Press OK on desired channel

TO SELECT A CHANNEL FROM ANOTHER SATELLITE

Press VOL up / down to change satellite. Then Press CH up / down to scroll through the list individually or press PAGE up / down to change the page. Press OK on desired channel on the chosen satellite.

TO SORT THE CHANNEL LIST

Press **green** button on your remote to sort channels alphabetically.

Press **yellow** button on your remote to sort channels free to air first then scrambled.

Press **red** button on your remote to return to normal list.



BY PRESSING - SAT

Whilst watching any channel press SAT and the channel list will come up on your screen with the current satellite highlighted.

TO SELECT A CHANNEL WITHIN THE SAME SATELLITE

Press OK then scroll through the list individually or press PAGE up / down to change the page. Press OK on desired channel.

TO SELECT A CHANNEL FROM ANOTHER SATELLITE

Press CH up / down to scroll through the satellites on the right. Once the channel list has changed press VOL down this will enter the channel list on the left. Then Press CH up / down to scroll through the list individually or press PAGE up / down to change the page. Press OK on desired channel on the chosen satellite.

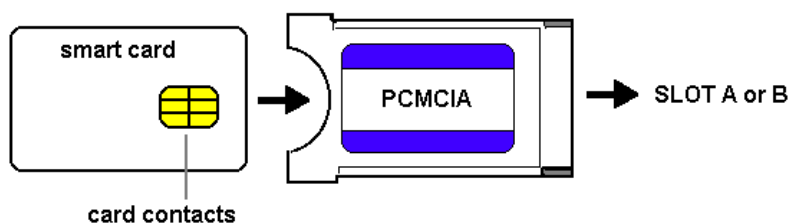
In both cases above if you select a channel from another satellite, the antenna will automatically move to that satellite.

TO RECALL THE LAST CHANNEL VIEWED

Press RECALL once on your remote. If you press again it will go back to previous channel.

Viewing scrambled channels

Your receiver is equipped with two CI (Common Interface) slots located behind the front flap. Open the flap from top right hand side and insert the module in either of the slots together with a valid smart card as shown below.



The CI and smart card modules determine the programs that can be de-scrambled. You can plug in two different modules providing access to both services. Each smart card contains your subscription details. You can view your entitlement via the below menu. Follow steps indicated.

CA SETUP MENU: Common Interface



After inserting card and module, select CA SETUP menu and press OK.

1. Common Interface

This will show slots A and B and the type of CAM you have inserted. Select the slot you are using and press OK for sub menu. The below menu will appear which is generated by the CAM itself.

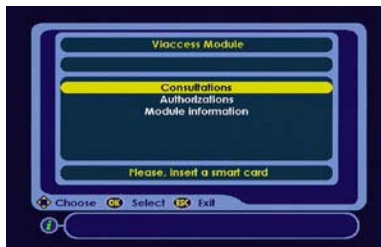
2. Embedded

This section is reserved for models with embedded CI systems with only the card slot provided.

Consultation menu

Select slot A or B and press OK.

This will show the various parameters concerning your CAM and card subscriptions. Press VOL up / down to select an item then press OK to enter that parameter. Press ESC when finished.



On screen card message

If you have inserted the CAM without the smart card or your card is currently not valid, the card message will appear on your screen as shown on left. Insert a valid card and this message will disappear.



NOTE: These messages are generated by the CAM and smart card and may vary with different access systems. Sometimes the screen may display a card message over a de-scrambled channel. This may be caused by having two identical CAMs inserted but each with a smart card from a different service provider. (e.g. TPS smart card and the other AB SAT smart card). In this case as TPS channel is being accessed, it will de-scramble the channel but at the same time the AB SAT card may display above card message. When this happens press ESC to cancel the message.

Viewing Teletext

The receiver has a built in teletext circuitry which enables you to call up the text pages when these are transmitted by the service provider.

To enter the teletext mode press TEXT (green) on your remote. If teletext transmission is provided by the service provider then the text page will be displayed after a few seconds. If there is no teletext transmission then a message will appear stating ' No TEXT available'

To select a page enter using 0-9 buttons.

To change to next page up or down use the PAGE up / down buttons.

To exit from teletext mode, press TEXT button again or press ESC.

To display subtitles on a channel

If the service provider is transmitting subtitles for a channel then you can select this by pressing SUB.T (yellow) button on your remote. The screen will display the menu on the top left corner. Press CH up / down button to select ,then press OK. The subtitles will appear after a few seconds after the channel banner has switched off. If there is no subtitles transmitted then a message will appear which states ' No Subtitle available'.

NOTE: At times the subtitle menu will appear on the top left corner but there may not be any subtitles transmitted.

To select a different broadcast audio

When the service provider is transmitting multiple audio or languages for a channel, you can select an audio or language of your choice. Press LANG button on your remote. The screen will display the menu on the top left corner. Press CH up / down button to select ,then press OK. The audio or language will change after a few seconds.

If you have connected your TV using a SCART lead then you can further configure the audio output by pressing the A.MODE (blue) button on your remote. Press repeatedly to change. The change will be indicated on the channel banner.

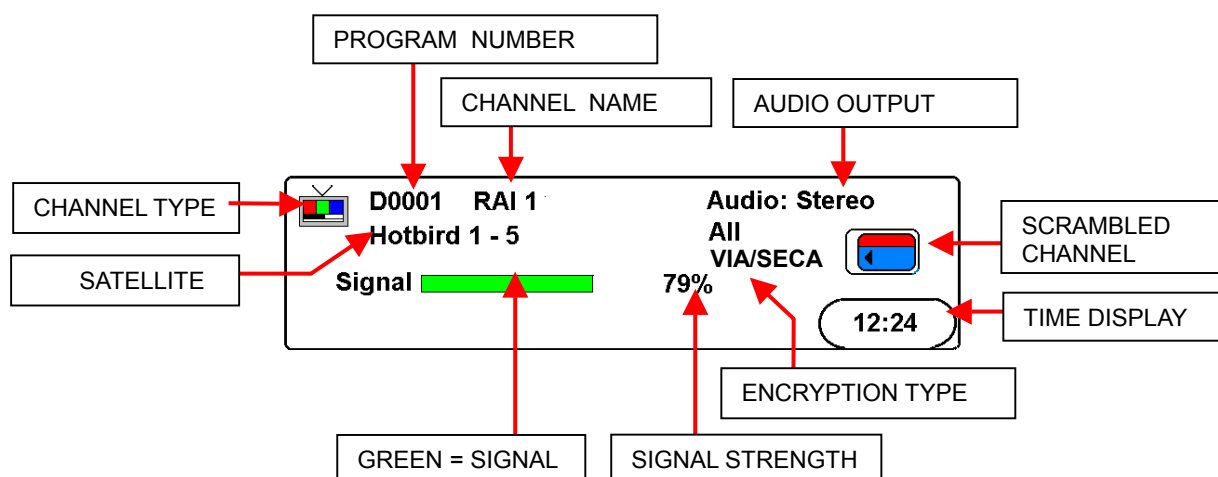
To activate sleep timer

To switch on sleep timer press SLEEP button. The time will be displayed on the top right. You can program the timer for maximum 2 hours. Press this button repeatedly to increment time. After the set time has lapsed, the receiver will automatically switch to standby.

INFORMATION

By pressing INFO button once on your remote the below channel banner will be displayed for 5 seconds. If you press the INFO button twice then this will be displayed together with channel data which will appear above the channel banner.

CHANNEL BANNER



VOLUME CONTROL AND MUTE



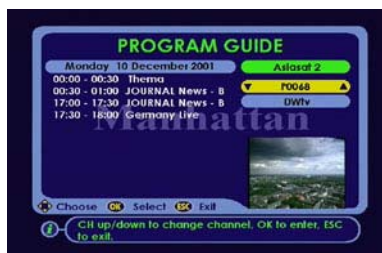
Press VOL up / down to increase or decrease the sound



Press MUTE to turn of sound. Press it again to turn on sound

Electronic Program Guide (EPG)

Your receiver can display EPG provided that the broadcaster is transmitting this. It will display what's on now and what's on next. Press GUIDE (red) button and below menu will appear. Follow the steps for each menu.



CURRENT CHANNEL – Press OK and the cursor will move to the current event. Press CH up / down to select event and press OK. See below menu which shows the actual EPG. Press ESC twice when finished.

DIFFERENT CHANNEL – Press CH up / down to change channel. Press OK after changing channel and the cursor will move to the current event. Press CH up / down to select event and press OK again. Press ESC three times when finished.

NOTE: If there is no event transmitted by the broadcaster then it will state ' NO EVENT' and the EPG page will be blank.
If there is no EPG transmitted by the broadcaster then it will state ' No Data'
After changing channel please allow few seconds before you press OK for EPG.



After you press OK on an event the full EPG for the channel is displayed as shown on left.

Installing favorite channels

There are 11 different TV and 11 different Radio channel lists you can create with your receiver. You can rename the list headings to your requirement. Follow below steps.

INSTALL MENU: FAVORITE CHANNELS

In the INSTALL menu select 'Favorite Channels' and press OK .Press VOL up / down to select Add, Delete or Rename.



1.TO ADD CHANNELS

Press OK on ADD and the cursor will move to channel list. Press CH up / down and select the channel. Press OK on all the channels you wish to add. The channel will be added on the right under the favorite heading. Press ESC when finished and move to STORE. Press OK to store.

To change the heading press FAV button repeatedly.

B. To change channel list to another satellite press SAT button repeatedly.

2. TO DELETE CHANNELS WHICH YOU HAVE ADDED

Press VOL up / down on ADD and select DELETE then press OK. When cursor has moved to the list on the right, press OK on the channels you wish to delete. Press ESC when finished and move to STORE. Press OK to store.

3. TO RENAME FAVORITE LIST HEADING

Press FAV and select the heading you wish to rename. Press VOL up / down on ADD and select RENAME. Press OK and below menu will appear. Proceed as indicated.



Press CH up / down to move up and down the lines.

Press VOL up / down to move within the line.

Press OK on the letter to enter.

After naming, press ESC. Then select STORE and press OK .

NOTE: When adding favorite channels from different satellites, these will be grouped into one list under each favorite heading.

Selecting favorite channels

To select favorite channel, press FAV button. Below channel list will appear.



Press VOL up / down to change the list.

Press CH up / down to scroll up and down the list. Press OK on the required channel.

Press FAV or ESC if you want to quit without selecting any channel.

VCR Timer Settings

You can program your receiver to switch on automatically (on from standby) for your VCR. Please refer to your VCR instruction manual for setting the VCR. You can program up to 10 events to come on at different times. Follow below steps.

SYSTEM MENU: VCR TIMER SETTINGS

In SYSTEM menu select VCR Timer Settings and press OK.



Event No: Press VOL up / down to change number.

Timer: Press VOL up / down to turn on the timer.

TV / Radio: Press VOL up / down to select TV or Radio channel.

Satellite: Press VOL up / down and select satellite name.

Channel: Use 0-9 buttons and enter channel number.

Month: Press VOL up / down and select the month you wish the timer to come on.

Day: Press VOL up / down and select the date you wish the timer to come on.

On Time: Use 0-9 buttons and enter the time it is to come on.

Off Time: Use 0-9 buttons and enter the time it is to switch off.

STORE: Press OK to store above settings.

Repeat the process for rest of the event numbers if you have more than one event to program.

NOTE: If you are setting two or more events within the same day which are switching on one after the other, then there should be minimum one minute difference between the off time of first event and on time of second event. See below example.

Event 1 : On Time = 15:05, Off Time = 16:05

Event 2 : On Time = 16:06, Off Time = 17:05

The receiver will switch on and off at the times stored for each event. After the time has lapsed, it will reset that event to default settings.

To reset your receiver to default settings

If you wish to reset your receiver to factory default settings in order to reinstall, follow below steps.

SYSTEM MENU: Master Reset

In SYSTEM menu select Master Reset and press OK.



The screen will change and a warning will be displayed as shown on left. Press OK to reset . This will reset all settings that you have done to factory default values. After reset there will be no channels to view .

INFORMATION

To display the current software version on your receiver, select ' System Information' in SYSTEM menu and press OK. Below screen will appear.

SYSTEM MENU: System Information

If you have a technical inquiry regarding the functions of your receiver, it may be necessary to quote these figures when calling the technical help line.

These figures will change when you upgrade the software.



PARENTAL LOCK: To lock programming menus

If you wish to lock the programming menus so that it can only be operated with a password.

INSTALL MENU: PARENTAL LOCK

In INSTALL menu select 'Parental Lock' and press OK.



Menu Lock: Press VOL up / down to turn it on.

Old Password: Use 0-9 buttons and enter 0000. This is the default password.

New Password: Use 0-9 buttons and enter four numbers of your choice.

Confirm: Use 0-9 buttons and re- enter four numbers of your choice.

STORE: Press OK to store the settings.

After storing above, the menus can only be accessed using the new password you programmed. It is therefore important to remember this password. If the menus are locked and you press MENU button, the screen will display password box where you have to enter your password.

NOTE: This password will also apply to channels locked in the CHANNEL EDIT function, described in ADVANCE INSTALLATION. Once the default password 0000 has been changed, then it cannot be used again. However if you forget your password then you can apply the MASTER PASSWORD which is given on page 20.

ADVANCE INSTALLATION

This section describes the use of the EDIT menu which includes Channel, Satellite and TP edit functions. Follow below steps.

To edit channels

EDIT MENU: CHANNEL EDIT

In EDIT menu select 'Channel Edit' and press OK. Press VOL up / down to select Lock, Delete, Rename or Move.



1. TO LOCK CHANNELS

Press OK on 'Lock' and cursor will move to TV channel list. Press VOL up / down if you want to select Radio Channel list. Press CH up / down to scroll through the list and press OK on the channels you wish to lock. A padlock icon will appear against the channel. When finished press ESC and move down to STORE and press OK.

NOTE: If you have locked a channel then to open this channel you have to enter your password as configured in PARENTAL LOCK section above.

2. TO DELETE CHANNELS

Press OK on 'Delete' and cursor will move to TV channel list. Press VOL up / down if you want to select Radio Channel list. Press CH up / down to scroll through the list and press OK on the channels you wish to delete. These will be marked and highlighted in red. When finished press ESC and move down to STORE and press OK.

EDIT MENU: CHANNEL EDIT

3. TO RENAME CHANNEL

Press OK on 'Rename' Select channel then press OK on the channel. Left menu will appear.

Press CH up / down to move up and down the lines.

Press VOL up / down to move within the line.

Press OK on the letter to enter.

After naming, press ESC. Then select STORE and press OK .



EDIT MENU: CHANNEL EDIT



3. TO MOVE CHANNEL

Press OK on 'Move'. Press VOL up / down to select TV or Radio list.

To move a single channel

Press CH up / down to scroll up and down the channel list. Press OK **twice** on the channel. Press CH or PAGE up / down to move to desired position and press OK.

To move a group of channels

Press CH or PAGE up / down to scroll through the list and locate the group of channels you want to move.

Press OK **once** on the first channel of the group.

Press CH down to select all the channels in the group. These channels will be highlighted.

Press OK **once** on the last channel in the group.

Press CH or PAGE up / down to locate the new position. After locating press OK **once**.

4. After moving channels press ESC once and select STORE. Press OK.

To edit satellite



EDIT MENU: SATELLITE / TP EDIT

In EDIT menu select 'Satellite / TP Edit' and press OK. Press CH down once.

1. TO ADD A SATELLITE

Press OK on 'Add' and the menu will change as below. Follow instructions as indicated. After pressing ESC the new satellite name will be entered at the bottom of the list. After adding press ESC and select STORE and press OK.

2. TO DELETE A SATELLITE

Press OK **once** on 'Delete' cursor will move to list. Press CH or PAGE up / down and select the satellite you want to delete. Then press OK on that satellite. After deleting press ESC and select STORE and press OK.

NOTE: If you delete a satellite then to restore it, you have to reinstall the receiver using Master Reset function.

3. TO RENAME A SATELLITE

Press OK on 'Rename' and cursor will move to list. Press CH or PAGE up / down and select the satellite you want to rename. Then press OK on that satellite. The menu will change as below. Follow instructions as indicated. After pressing ESC, the new satellite name will be entered. After naming press ESC and select STORE and press OK.

4. TO SORT SATELLITE LIST ALPHABETICALLY

Press OK on 'Sort'. After sorting select STORE and press OK.



ADD or RENAME a satellite

Press CH up / down to move up and down the lines.

Press VOL up / down to move within the line.

Press OK on the letter to enter.

After naming, press ESC.

To edit TP

To add, delete, rename or sort TP list. Follow below steps.

EDIT MENU: SATELLITE / TP EDIT



In EDIT menu select 'Satellite / TP Edit' and press OK. Press VOL down once to change to TP menu. Then press CH down once.

1. TO ADD A TP

Press OK on 'Add' and the menu will change as below. Follow instructions as indicated. After pressing ESC the new TP name will be entered at the bottom of the list. After adding press ESC. The cursor will now be on the TP data on the right. Follow below steps.

- **Freq** --- Use 0-9 buttons and enter the frequency for that TP
- **Polarity** --- Press VOL up / down to change polarity
- **S / R** --- Use 0-9 buttons and enter symbol rate for that TP
- **FEC** --- Press VOL up / down and select forward error correction (FEC). If you do not happen to know the FEC value then select 'Auto'. After this press ESC then select STORE and press OK.

This TP will be called up when performing channel search.

2. TO DELETE A TP

Press OK **once** on 'Delete' cursor will move to list. Press CH or PAGE up / down and select the TP you want to delete. Then press OK on that TP. After deleting press ESC and select STORE and press OK.

3. TO RENAME A TP

Press OK on 'Rename' and cursor will move to list. Press CH or PAGE up / down and select the TP you want to rename. Then press OK on that TP. The menu will change as below. Follow instructions as indicated. After pressing ESC, the new TP name will be entered. After naming press ESC and select STORE and press OK.



ADD or RENAME a TP

Press CH up / down to move up and down the lines.
Press VOL up / down to move within the line.
Press OK on the letter to enter.
After naming, press ESC.

3. TO SORT TP LIST

Press OK on 'Sort' The TP's you have added will be sorted by frequency. Lower frequency TP's will be moved to the top of the list and vise versa.

4. TO EDIT EXISTING TP

Select TP menu and press OK once cursor will move to list. Press CH or PAGE up / down to scroll through the list. Press OK on the TP you want to edit. The cursor will default on EDIT TP on the right. Enter channel data as described in step 1 above.

ADDITIONAL INFORMATION

NIT (Network Information Table) SEARCH

When downloading channels using this method, it will first Auto tune the TP's in the receiver's database. After this it will search for any NIT information, which may be broadcasted by the service provider, from the signal available and additionally tune those TP's which are not included in the database.

The additional TP channels will be added to the TV Channel list at the bottom.

SIGNAL BAR INDICATIONS

In Channel Search and viewing mode (when the channel banner is displayed) it will indicate the signal conditions as below

Blue signal : Indicates noise only with no actual signal

Green signal: Indicates actual signal

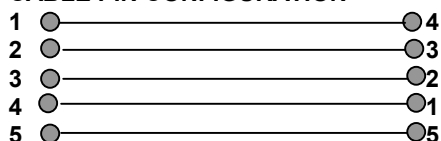
RADIO MODE

When in radio channel mode, model Skyline 3000 will display a background picture which is generated within the receiver. This picture mode however is not applicable to Skyline 1000 model.

Receiver to receiver copy function

If you have tuned your satellite receiver then you can copy the channel and user setting data onto another receiver of the same make and model. To do this you require a female to female 'NUL Modem' cable with the pin configuration as below. To copy proceed with below steps.

CABLE PIN CONFIGURATION



STEPS

1. Connect your lead to 'RS232' connectors (**R11**) on both the receivers.
2. Power on the master receiver from which you want to copy the data.
3. Power on the slave receiver onto which you want to copy the data.
4. The front display on the master receiver's will start counting up. When transfer is finished it will indicate 'END'
5. When finished the slave receiver will indicate a channel number eg 0002 or NOCH.

Upgrading the software of your receiver

You can upgrade the software of your receiver when this is available. When a software is upgraded it will be available on our website www.manhattan-receivers.com If you do not have access to internet then consult your Manhattan Dealer / Agent for any upgrades. Your current software version is displayed in the 'System Information' in SYSTEM menu. Remember after software upgrade, the receiver must be reset via 'Master Reset' in SYSTEM menu and re-installed.

If you have a problem with your receiver

If you suspect there is a problem with your receiver, please check the following trouble shooting guide before calling a **Manhattan** authorised service agent.

Warning! Under no circumstances attempt to repair the receiver yourself. Tampering with the receiver may result in fatal electric shock and will invalidate your warranty.

Symptoms	Possible cause / solutions
<ul style="list-style-type: none"> Receiver's front display not lit. 	<ul style="list-style-type: none"> Check that the mains cable is plugged into the power socket.
<ul style="list-style-type: none"> Receiver is on but no picture or sound or any menus. 	<ul style="list-style-type: none"> Check that your TV is configured for the correct UHF channel or is switched to correct AV input.
<ul style="list-style-type: none"> Receiver is on but no picture or sound. 	<ul style="list-style-type: none"> No signal, check presence of signal. Channel is scrambled. Check tuning and programming parameters are set correctly. The antenna is not in correct position. Check LNB wire is not damaged or shorting. Check LNB may be faulty.

Technical Specifications

TUNER

Input Connector	F-type IEC 169-24 Female
Frequency Range	950MHz to 2150MHz
Input Impedance	75 Ohm
Signal Level	-25 to - 65 dBm
LNB Power & Polarization	Vertical: +14V, Horizontal +18V Current: 600mA Max. with Overload protection
LNB Control	22KHz \pm 4KHz, Tone burst A/B and DiSEqC 1.2
22KHz Tone Amplitude	0.6Vpp (\pm 0.2V)
Input Symbol Rate	2~45 Msymbol/sec
FEC Decoder	Auto, 1/2, 2/3, 3/4, 5/6, 7/8

SYSTEM

Transmission Standard	DVB MPEG-2
Input Data Rate	Max 15Mb/s
Aspect Ratio	4:3, 16:9
Video Resolution	720 x 480 NTSC, 720 x 576 PAL
Audio Decoding	MPEG Layer L & R
Audio Mode	Single channel / Dual Channel/Joint Stereo / Mono
Sampling Rate	32KHz, 44.1KHz, 48KHz, 96KHz

COMMON INTERFACE

Slots	2 slots type 1 and type 2
PCMCIA	DVB Common Interface Standard

CONNECTORS

RGB, CVBS	2 x SCART sockets (TV/VCR) 1 X PHONO RCA
Audio Output	2 x SCART sockets (TV/VCR), 2 x PHONO (L, R) / RCA Volume and Mute Control
Data Interface	RS232, Bit Rate: 115,200 baud Connector: 9-pin D-sub type
RF connectors	75 Ohm IEC 169-2 Male/Female

RF MODULATOR

Frequency	470MHz to 860 MHz
Channel Range	UHF CH21~69
TV standard	PAL G/ I /K PAL M, NTSC M

Preset Channel CH 64 Software controlled

POWER SUPPLY

Input Voltage 100 -- 240 V AC, 50/60Hz ~
Type SMPS
Power Consumption Max 25W
Protection Separate Internal Fuse

PHYSICAL DIMENSIONS

Size (W X H X D) 340 X 66 X 285 mm
Weight 2.2 Kg

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MASTER PASSWORD

This is the master password for your receiver. Cut this section out and keep it in a safe place. It will be useful later if you forget or lose your configured password. Write down your password below

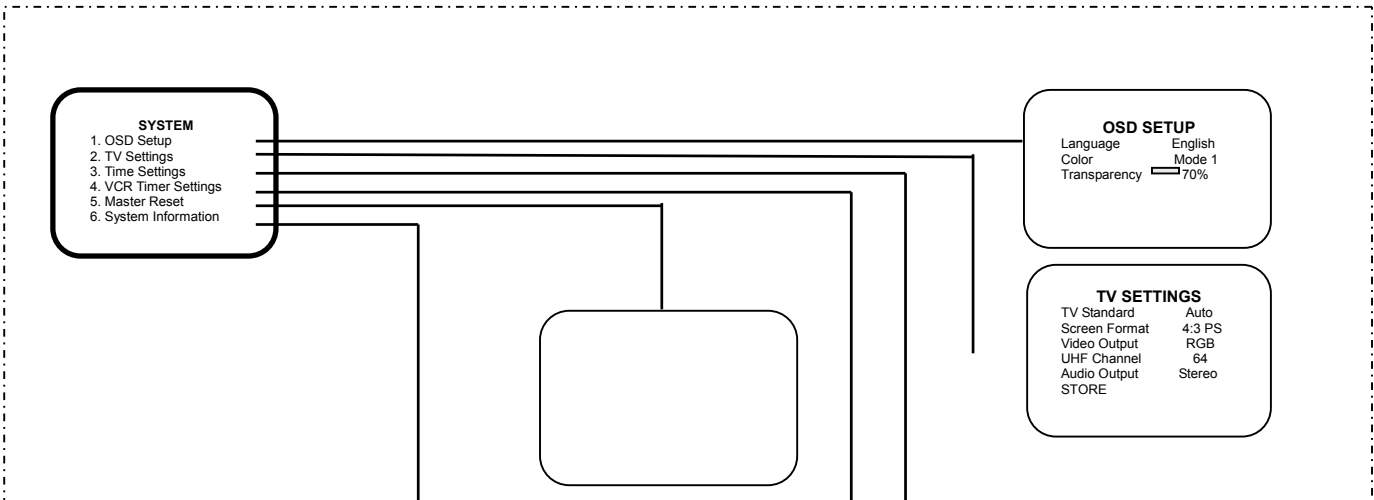
MASTER PASSWORD

6	6	9	9
---	---	---	---

YOUR PASSWORD

--	--	--	--

PROGRAMMING MENU



WARNING

This will erase all stored data
and reset to default values.
Press OK to continue or ESC
to abort

SYSTEM INFORMATION

Boot Version : 1.0
Appl Version : 1.0
C.A. Version : 0.0

TIME SETTINGS

Year 2001
Month 01
Day 20
Hour 14
Minute 48
STORE

VCR TIMER

Event No. 1
Timer Off
TV/Radio TV
Satellite Amos 1 (4W)
Channel 278
Month 9
Day 1
On Time 12:30
Off Time 14:30
STORE

INSTALL

1. Antenna Settings
2. Channel Search
3. Favorite Channels
4. Parental Lock

ANTENNA SETTINGS

Antenna 1
LNB Type Universal
LNB Power V / H
22KHz Tone Auto
DiSEqC Off
12V Off
STORE

ANTENNA SETTINGS

Antenna 1
LNB Type Universal
LNB Power V / H
22KHz Tone Auto
DiSEqC Off
12V Off
STORE

CHANNEL SEARCH

Search Index 1
Antenna 1
Satellite Amos 1 (4.0W)
Search Mode Auto All
TP Data TP5: MCM
LNB Skew - 45
Positioner DiSEqC 1.3
START
Signal 75%
Quality 80%

CHANNEL SEARCH

Search Index 1
Antenna 1
Satellite Amos 1 (4.0W)
Search Mode Auto All
TP Data TP5: MCM
LNB Skew - 45
Positioner DiSEqC 1.3
START
Signal 75%
Quality 80%

PARENTAL LOCK

Menu Lock Off
Old Password ****
New Password ****
Confirm ****
STORE

SEARCHING

TV Channels Radio Channels
11196/Hor/4000 TV 82 / Rad 80
Hotbird1-5 30%

FAVORITE CHANNELS

TV Channel News
Rename
Hotbird 1-5
STORE

FAVORITE CHANNELS

TV Channel News
Rename
12345
STORE

CHANNEL SEARCH

Search Index 1
Antenna 1
Satellite Amos 1 (4.0W)
Search Mode Auto All
TP Data TP5: MCM
LNB Skew - 45
Positioner DiSEqC 1.3
START
Signal 75%
Quality 80%

CHANNEL SEARCH

Search Index 1
Antenna 1
Satellite Amos 1 (4.0W)
Search Mode Auto All
TP Data TP5: MCM
LNB Skew - 45
Positioner DiSEqC 1.3
START
Signal 75%
Quality 80%

PROGRAMMING MENU**EDIT**

1. Channel Edit
2. Satellite / TP Edit

CHANNEL EDIT

TV CHANNEL RADIO CHANNEL
0001 TVN 0001 ROCK
0002 DISC 0002 CLASS
Hotbird 1-5
STORE

SATELLITE / TP EDIT

Hotbird 1-5 TP
001 Cyfra add Freq 11766
002 Tps S/R Polar Vert
REC 27500
STORE 3/4

Freq 11766
Pol Vert
SR 27500
FEC 3/4

