

The contents of this manual are correct at the time of going to press. We reserve the right to change the descriptions and operation of the product(s) herein without prior notice.

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INTRODUCTION

Congratulations on choosing this stereo satellite receiver. This instruction manual will help you to take advantage of all the user features available on this unit and show you how to connect it to your TV, VCR, or Hi Fi equipment.

We recommend that you only attempt to install a satellite dish if you are experienced at working from ladders or at height and if you have read and fully understood the mounting instructions supplied with the satellite dish, otherwise we suggest that you use a trained professional installation engineer.

Before installing a satellite dish you may require the consent of your freeholder, landlord or residents association. If your property is listed or in a conservation area you may need the permission of your local authority.

Accessories Supplied With This Receiver.

The following accessories have been supplied with this unit.

A Remote Control Unit.
A Pack Of Two 'AAA' Batteries.
A UHF TV Cable.

If you have not received any of the above items then please contact your supplier immediately.

PART ONE

SAFETY INSTRUCTIONS FOR USE WITH THIS RECEIVER

All receivers manufactured for use in the United Kingdom or the Republic of Ireland are fitted with a moulded 3 pin mains plug. The only serviceable part of this plug is the fuse.

Only a 3 Amp fuse manufactured to standard BS 1362 should be fitted to this moulded mains plug. This receiver operates within the range of 220 - 240V A.C. 50Hz mains supply.

The unit should not be used with the fuse cover removed

Non UK receivers are fitted with a 2 pin moulded mains plug.

1.1 Safety Guidelines

To ensure reliable and safe operation of this unit please observe the following guidelines.

8 NEVER

Attempt to insert the mains plug into a 13 Amp socket after it has been cut from the mains lead. **DISPOSE OF IT SAFELY.** If cut off, the plug cannot be reused and should be disposed of safely, having firstly had the fuse removed. There is a danger of severe electric shock if the severed plug is inserted into a 13 Amp socket.

Remove the cover of the unit or disassemble any part of the receiver whilst it is still plugged in to a mains socket. All servicing should be carried out by qualified personnel only.

Allow anyone, especially young children and babies to push anything into any slots or holes in the receiver - with the exception of an authorised viewing card.

The viewing card slot is only fitted on VideoCrypt (TM) equipped receivers.

Block or cover the ventilation slots or holes of the receiver.

Expose the unit to rain or moisture.

© ALWAYS

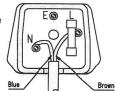
Put the receiver into standby mode when not in use.

Obey the warning label affixed to the underside of the receiver.

Consult your supplier if you have any doubts about the installation, operation or safety requirements of this receiver.

When wiring a replacement plug follow these instructions:

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:



Blue:

Neutral

Brown:

Live

- A.) The wire which is coloured Blue should be connected to the plug terminal marked 'N' or coloured Black.
- B.) The wire which is coloured Brown should be connected to the plug terminal marked 'L' or coloured Red.

WARNING - Do not connect either wire to the earth terminal of a three pin mains plug.

1.2 Glossary of Terms Used in This Manual

The following is an explanation of terms used in this manual which you may find helpful.

The 'Satellite Receiver' or 'Receiver' is the unit that receives the satellite transmissions via the satellite dish and allows you to watch satellite programmes on your TV.

The 'Satellite Dish' or 'Dish' is erected outside and focuses the satellite transmissions into the low noise block (LNB).

The 'Low Noise Block' or 'LNB' is connected to the Dish and serves to amplify the received satellite transmission before sending it to the receiver through a low loss co-axial cable.

The combination of 'Dish' and 'LNB' is termed an 'Outdoor Unit'.

An 'External Decoder' or 'Decoder' is a unit which when connected to the Satellite Receiver allows the de-scrambling of a particular channel or channels.

VideoCrypt equipped receivers have an in built decoder, and can be identified by the text "VideoCrypt" located on the front of the receiver.

A 'Viewing Card' is a subscription card which is inserted into VideoCrypt equipped units or an external decoder.

On Screen Programming 'OSP' are user accessible features which allow customisation of the receiver's picture and sound operation.

The 'Switchbox' is an accessory which allows a receiver to select a second LNB. For information on the use of a Switchbox, please contact your local supplier.

PART TWO

RECEIVER INSTALLATION

2.1 Connecting your Satellite Receiver to your TV.

With receivers for use in the United Kingdom (including Eire), ensure that the PAL I/G switch is set to the 'I' position. This is located at the back of the receiver. See the Appendix, section 3, figure 2. For non UK units set the switch to the 'G' position.

Connect the co-axial lead from the outdoor unit to the 'Dish' output located at the rear of the receiver. Connect your TV aerial lead to the aerial socket at the rear of the receiver. Using the UHF TV cable provided connect the satellite receiver to the TV. See the Appendix, section 2, figure 1 for a connection diagram. Now tune in your satellite receiver to your TV as follows:

- A. Firstly, power on the receiver. The unit will now go into standby with the standby indicator illuminated on the receiver front panel display. To bring the receiver out of standby press the standby button (()) which is located behind the front flap of the unit. For a diagram of the front panel see the Appendix, section 3, figure 1. Alternatively, you can press the standby button or any of the 1 to 9 buttons on the remote control unit. The receiver display will now show the channel selected i.e. F01 to F09. Secondly, power on your TV.
- **B.** Set the test signal switch at the back of the receiver to the 'ON' position. See the Appendix, section 3, figure 2.
- C. Select an unused channel on the TV and tune it to the test signal from the receiver. The test signal will appear as two vertical white stripes on a black background on the TV screen. This can be seen in the Appendix, section 2, figure 1.
- D. Once you have tuned in the TV to the satellite receiver set the test signal switch back to the 'OFF' position. A clear satellite picture should now be seen with the receiver set to one of the favourite presets (F01 to F09).

If your TV has a PERITEL connector then you will be able to obtain a higher quality picture by connecting it directly to the satellite receiver 'TV' SCART. See the Appendix, section 2, figure 1.

2.2 Connecting your Satellite Receiver to your TV via a Video Recorder.

Using the UHF cable supplied, connect your receiver, TV and Video recorder (VCR) as shown in the Appendix, section 2, figure 2.

Tune the VCR to the satellite receiver as follows:

- A. First power on the receiver, TV, VCR and set the test signal switch at the back of the receiver to the 'ON' position. See the Appendix, section 3, figure 2. Select the channel on the TV normally used for watching the VCR.
- B. Select an unused channel on your VCR and tune it in to the test signal from the receiver. When correctly tuned in, two vertical white stripes on a black background will appear on your TV screen. See the Appendix, section 2, figure 2.
- C. Once the test signal is tuned in, set the test signal at the back of the receiver to the 'OFF' position. A clear satellite picture should now be seen with the receiver set to one of the Favourite presets (F01 to F09).

You can also reserve a separate channel on your TV and tune it directly to the satellite receiver following the procedure detailed in section 2.1.

If your video and TV have a SCART output then an all SCART connected system can be achieved using SCART leads (not supplied). See the Appendix, Section 2, figure 2.

2.3 Connecting Your Receiver to a Hi-Fi.

The satellite receiver can be connected to your existing Hi-Fi equipment by means of the two phono connectors located at the back of the receiver. This will provide Audio Left and Right signals which can be played through your Hi-Fi system thus enabling stereo satellite transmissions to be heard. See the Appendix, section 2, figure 3 for a connection diagram.

2.4 Connecting your Receiver to an External Decoder.

The 'DECODER' scart socket located at the back of the receiver can be used to connect your receiver to an external decoder so as to enable viewing of encrypted channels. Consult your supplier for further information on programme encryption.

A second decoder can be connected if required see section 5.4.7 Installation menu.

2.5 Modulator Fine Tune.

If you cannot tune in to a clear test pattern during initial set up (usually observed as 'wavy' test bars and 'patterning' on the TV screen) then it may be necessary to adjust the modulator fine tune which is located at the back of the receiver, see the Appendix, section 3, figure 2. This is normally due to frequency interference with an adjacent TV channel or other equipment connected to your TV such as a VCR. On adjusting the modulator fine tune you will need to re-tune your TV and/or VCR to the satellite receiver.

PART THREE

FRONT PANEL OPERATION

3.1 Introduction.

Basic receiver operation (standby, power on and channel change) can be accomplished by using the push buttons located behind the front panel flap to the right hand side. All additional user features are accessed using the remote control handset as described in Parts 4 and 5 of this user manual. A diagram of the front panel assembly is shown in the Appendix, Section 3 Figure 1.

VideoCrypt (TM) equipped receivers have an additional push button known as the 'AUTHORISE' button located behind the front panel flap on the left hand side. See section 3.3.2.

3.2 Front Panel Button Operation.

An explanation of the operation of each button now follows.

The Standby Button [(|)]

While the receiver is connected to the mains, the standby LED will be lit on the front panel display. Press the standby button to power on the receiver. The receiver will power up on the last channel viewed. To switch the receiver off, press the standby button again.

The Channel UP / DOWN buttons [___ |

With the receiver powered on, channel selection is obtained by pressing the 'Channel Up' or 'Channel Down' buttons. Holding either button in will result in a rapid channel change in either direction. Both Favourite presets F01 to F20 and Channel Numbers 001 to 200 can be selected in this manner.

The Display Lock Button

The 'Display Lock' button can be used to lock out all buttons on both the remote control and the other front panel buttons. This is useful when you want to record a channel without having to use the receiver's Event Timer (see section 5.3), and you wish to prevent anyone accidentally changing the channel that you wish to record. To activate the display lock feature, first select the channel that you require, then press the display lock button. The front panel display will now show 'LOC'. To disable 'Display Lock 'press the button again.

1 The event timer, if set, will override display lock.

The following section applies only to VideoCrypt (TM) equipped receivers.

3.3 Viewing VideoCrypt (TM) **Encrypted Programmes.**

Certain channels transmitted via satellite are encrypted using VideoCrypt (TM). To view these channels you require a valid subscription card. which you can obtain from the appropriate satellite TV agency. Selecting an encoded channel will show a scrambled picture with the message:



With the receiver's front flap down, carefully insert the subscription / viewing card into the card slot, ensuring that the insertion sign printed on the card is uppermost and facing towards the receiver. If the card has been inserted correctly, the message will change to:



After a few seconds the TV screen will change to a normal TV picture.

The card can now be left in the satellite receiver for normal viewing. With the card removed. encrypted channels will again appear scrambled.

3.3.1 Activating a New Card.

Each viewing card is designed to work for a limited period, and as a subscriber to the satellite television company you will be sent a new card automatically as required. The new card must be activated before use as follows:

- A. Select an encoded channel with the old card.
- B. Remove the old card and immediately insert the new card.
- Check that the new card decodes all the encoded channels to which you have subscribed. If the new card does not function correctly then refer to Table 1, section 3.3.4 for assistance.

Once the new card has been activated, it should be used in place of the old card, which will no longer work and can be discarded.

Your new card can only be activated with your own old card, but once activated it can be used in any VideoCrypt (TM) equipped receiver or stand alone VideoCrypt (TM) decoder.

3.3.2 Authorising Payment to View.

In the future, certain programmes are planned to be shown on a payment basis using a special token card. Each viewing will debit one or more units from the card until the total credit on the card is used up. To view an encoded 'Pay To View' programme insert the token card in the same method as the viewing card (as explained in section 3.3) and then press the 'AUTHORISE' button which is located close to the card reader slot, or use the 'AUTHORISE' button on the remote control. Full instructions on how to use this facility will be supplied with the token card.

The 'AUTHORISE' button has no effect on normal viewing cards.

3.3.3 Care of Your Viewing Card.

Your viewing card contains an electronic circuit , and as such should be treated with more care than a conventional credit card. To prevent accidental damage to your card, please note the following:

DO NOT

Bend the card

Expose to prolonged heat or sunlight

Immerse in fluid

Remove and insert unnecessarily

CARD RESTRICTED

There is a problem with your card.
Contact your subscriber service

centre.

3.3.4 On Screen Messages.

The following is a list of error messages that may occur with explanations and solutions that could prove helpful.

PLEASE CALL SKY

There is a problem with your

subscription. Contact your subscriber service centre.

TABLE 1

IADLE

YOUR BILL IS OVERDUE

Contact your subscriber service centre and/or pay the bill to avoid service

cut off.

PLEASE INSERT

MESSAGE

CARD

Insert card into receiver.

SOLUTION

THIS CHANNEL IS BLOCKED

Your card is not valid for the channel

selected. Contact your subscriber service

centre.

PLEASE WAIT

If the card is valid for the selected channel, the decoded picture will appear in a few

seconds.

PART FOUR

REMOTE CONTROL OPERATION

PROGRAMME RESTRICTED Programme has a parental control viewing restriction. Remove card

YOUR CARD IS INVALID The card may be damaged or incorrectly inserted. Check that the card is inserted properly. If this does not solve the problem, contact your subscriber service centre.

INSERT

VIEWING CARD

Remove 'Key Card' and insert Viewing

Card.

INSERT OLD CARD

Old card must be inserted before new card can be activated.

YOUR CARD HAS EXPIRED

A replacement card is required. Contact your subscriber service centre.

CHANNEL RESTRICTED

Your subscription is not valid for this channel. Select another channel.

4.1 Introduction.

The remote control unit works by sending a coded infra-red beam to the satellite receiver. It is important that there are no obstructions between the remote control and the receiver.

Before using your remote control ensure that the batteries supplied are correctly fitted as shown in the Appendix, section 1, figure 1.

A diagram of the remote control handset, with an explanation of each button operation is shown on the following page in section 4.2.

PART FIVE

ON SCREEN PROGRAMMING (OSP)

5.1 Introduction.

The On Screen Programming (OSP) menus can be used to customise your receiver. All OSP menus are accessed using the remote control unit. To access the OSP function press the MENU key once, the 'MAIN MENU' text will now

4.2 REMOTE CONTROL FUNCTIONS.

The ______ button is the on screen graphics button. When pressed the TV screen will display the channel name (if assigned see section 5.4.2). Pressing the button again will turn off the graphics.

The **b** button is the standby button. It brings the receiver into and out of standby mode.

The 1 - 9 buttons are used to select favourite presets 1 to 9 and in conjunction with the 'FAV' and 'CH' buttons select F10 to F20 and Channels 001 to 200. These buttons are also used when in the On Screen Programming (OSP) menu as described in Part 5 of this manual.

The 0 / P..P button is a dual function button. When entering a channel number or value in OSP mode it can be used to select the value 0. In normal operation it switches between the last channel you have been watching and your current channel.

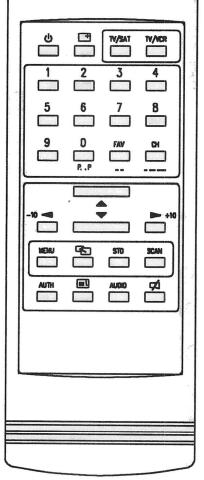
The Arrow buttons. The up/down arrow buttons are used to change channel. The left (-10) and right (+10) buttons are used to decrease or increase your channel selection in steps of ten. In OSP mode the up/down buttons are used to change values in the various menus. The left/right buttons are used to move the flashing cursor prior to changing a value.

The MENU button when pressed will display the on screen programming menu on the TV screen. Pressing the button more than once switches the screen between mixed text and full screen graphics.

The button is used in OSP mode only. It is used to return to the previous menu without saving any changes to the current menu.

The AUTH button will be used in future with 'pay to view' satellite transmissions.

The button when pressed displays channel status information on the TV screen. Press '0' to exit this menu.



The TV / SAT button switches the TV picture between normal TV programmes to satellite transmissions.

N.B.This only works on SCART connected installations.

The TV / VCR button switches the TV picture between normal TV programmes to the signal from a VCR that is not equipped with PERITEL function switching.

N.B. This only works on SCART connected installations.

The CH button is used to select a channel number. Pressing the 'CH' button once, displays 'CH _' on the screen . This allows you to input any channel number between 1 and 9. Pressing the 'CH' button twice displays 'CH _ _' on the screen and allows you to input any channel number between 01 and 99. Pressing the 'CH' button three times displays 'CH ___' on the screen and allows you to input any channel number between 001 and 200.

The FAV button is used to select one of your favourite preset programmes. When you press this button 'F__' is seen on the screen, prompting you to input your preset channel from 01 to 20. Pressing again displays 'F_' prompting you to input preset channel numbers 1-9

The SCAN button is a dual function button. During normal viewing pressing the button lets you scan through your favourite 20 preset channels, stopping on each one for a few seconds to let you view the picture. Press 0 to stop the channel scan. In OSP mode it is used to scan the channel frequency. To stop the frequency scan process, press the button once again.

The STO button is used in OSP mode to save any changes that were made.

The 🔀 button mutes the sound.

The AUDIO button when pressed selects the audio tuning menu. This allows you to select up to 32 audio modes. Any changes made in this menu are not permanent but are reset on channel change.

appear on your TV screen. Pressing the 'MENU' key again will result in OSP text being shown against a black background on the TV screen.

When using the OSP menus if you wish to save any changes made you must press the 'STO' button on the remote. Also, to EXIT from OSP at any time, without saving any changes made, press '0'.



With the main menu viewed, select 1 to 3 using the remote control buttons.

5.2 SET CLOCK.

This menu is used to set up the clock on your receiver. It is important that the clock is set in order to ensure that the receivers 'EVENT TIMER' functions correctly.



Use the '__ ' and '__ ' keys on your remote to change the current clock settings in conjunction with the '__ ' and '__ ' keys which move the cursor to each of the settings to be altered.

The clock uses a 24 hr format, e.g. to set the clock to 1 o'clock in the afternoon the hours and minutes should read 13:00.

With the clock set, press the 'STO' button on the handset to SAVE the displayed clock time and day. If you wish to exit the set clock menu without saving any changes made then press the 'D' button on the handset. This will take you back to the previous menu. Alternatively, to leave OSP mode without saving any changes press the 'O'

button on the handset. This will return you to normal satellite viewing.

5.3 EVENT TIMER.

This menu is used to allow the set up of the receiver such that the unit will switch on at a designated time to a chosen channel for a set period of time before returning to standby. This sequence is termed an event. If the unit is powered on at the time when an event is activated then when the event or events have been completed the unit will return to standby. Up to eight of these events can be programmed over a 4 week period.

The event timer function does not operate or set your VCR timer, this must be completed separately as described in your VCR user manual.



The time given in the top right hand corner of the screen is the current set time of day, ensure that it is correct. If the time is not correct, then reset it using the 'SET CLOCK' menu as explained in section 5.2.

An explanation of the Event Timer menu now follows

EVENT: 'Event Number'

Use the up/down arrow keys to select an event number between 1 and 8.

CH NO: 'Channel Number'

This is the channel number that you wish to record. It can be a preset favourite channel F01 to F20, or a channel number 001 - 200.

WEEK: 'Week No - Day'

This is the week and the day on which you want the recording to take place, the current week is always week 1.

For example, if the current day is a Saturday and you want to record a programme on the following Wednesday then the screen input would be 'WEEK: 1 - WED'. If you wish to record a programme on the following Saturday i.e. week 2 from the present day, then the screen input would be 'WEEK: 2 - SAT'.

If the receiver's clock is reset due to the mains power being disconnected then the event timer will need to be reset.

START: 00:00

This is the EVENT start time in HRS:MINS. This should be input in 24 hour format.

STOP: 00:00

This is the EVENT stop time in HRS: MINS. This should be input in 24 hour format.

SET: YES

This displays whether the present EVENT is set or not.

YES indicates that the event is set.

NO indicates that the event is not set

With the EVENT TIMER programmed press the 'STO' button on the handset to ensure that your settings are saved. To go back to the last menu selected without saving any changes press the

'Lam' button on the handset. Alternatively, press the '0' button on the handset to EXIT from the OSP function and return you to normal satellite viewing.

When the 'EVENT TIMER' activates the front panel display will show 'Et' followed by the event number.

To stop an event in progress you must press the standby $(\langle | \rangle)$ button on the front panel.

5.4 PROGRAMMING MENU.

Upon selecting the programming menu you will be requested to enter a 4 digit code as shown below. This is to stop unauthorised access of the programming menu, thus protecting your customised receiver settings.

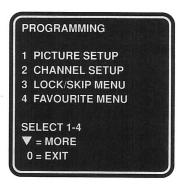
The receiver is factory preset to accept the code '0000' (you can assign your own code as described in section 5.4.8). As you enter your code an asterisk appears on the screen.



Should you type in the wrong code then the following will appear on your TV screen for a few seconds before returning to the 'MAIN' menu.



With the correct code entered the following will appear on the TV screen.



Pressing the down arrow button on the handset will select more Programming features as shown below. Use the '1-9' buttons to make your selection, or select '0' to exit from OSP.



All menu options in the Programming Menu will be explained in the following sections.

5.4.1 Programming Menu Option1: Picture Setup.

This menu is used to configure each of the 200 channels available on this receiver by frequency and LNB polarisation.



An explanation of the 'PICTURE' setup menu now follows.

CH NO: 'Channel Number'

Use the up/down arrow buttons to select the channel that you wish to change the set up of.

FREQ: 'XX.XXXX'

This is the RF frequency of the channel (in Giga Hertz). To alter the frequency use the up/down arrow buttons. To automatically frequency search, press the 'SCAN' button, the TV screen will now show the following.



Using the 'a 'and ' buttons the receiver will automatically search the Frequency range and stop when it has found a picture. To stop the Frequency search at any time press the 'SCAN' button on the remote control and this will return you to the 'PICTURE SETUP' menu.

POL: 'V or H'

This allows LNB polarisation selection.

V indicates Vertical polarisation.H indicates Horizontal polarisation.

LNB: 'A or B'

This feature allows the selection of a second LNB when a switchbox is connected to the outdoor unit (the switchbox is an accessory, contact your local supplier for more information). For a standard installation which uses only one LNB, select 'A'.

If you do not have a switchbox fitted this selection has no effect.

5.4.2 Programming Menu Option 2 : Channel Setup.

This menu allows you to set up the audio and video selections for each individual channel in the range 1 to 200. The screen will be viewed as shown.



An explanation of the 'CHANNEL' setup menu now follows.

CH: 'Channel Number'

This is the channel number currently selected. Use the up/down arrow buttons to change.

NAME: 'XXXXXX'

This is the channel name that you wish to identify the channel by. You can use up to 6 characters for this purpose. To change or input your channel name use the up/down and left/right arrow buttons on your remote control.

AUDIO: 'AXX'

Use the up/down arrow buttons to select your choice of A1 to A32 audio modes. For a table of preset audio modes see the Appendix, section 4, Table 1.

TV/RAD: 'TV or RAD'

With 'TV' selected you will view a normal television picture. With 'RAD' selected a blank screen will be viewed. This is typically used when

you have selected a satellite radio station and do not wish to view the picture.

SOURCE: 'AUTO, INT, VCR, DEC or DECV'

If your satellite receiver is connected to a VCR and/or an external decoder using SCART connections then this menu can be used to prioritise the signal that is routed to your TV. For example, if 'AUTO' is selected and you press play on your VCR, the VCR's signal will automatically be routed through the satellite receiver to your TV screen, providing that your VCR is compatible with SCART function switching. With 'INT' selected the signal from the satellite receiver (including VideoCrypt (TM) equipped receivers) will be routed to your TV. If your VCR is not compatible with SCART function switching then selecting 'VCR' will route the signal from your VCR to your TV. With 'DEC' selected, signals from the satellite receiver will be fed to the external decoder and then re-routed back through the receiver to the TV. With 'DECV' selected, video only is routed back from the decoder.

5.4.3 Programming Menu Option 3: Lock/Skip Menu.

The LOCK menu allows you to lock out channels that you do not wish others to view, including Favourite presets F01 to F20.

The 'SKIP' menu can be used to disregard those channels (1 to 200) which are not required to be viewed, excluding Favourite preset channels F01 to F20.

The 'SKIP' menu only operates when using the up/down arrows or the +/- 10 keys on the remote control. If a channel number is entered directly then that channel can be viewed. If you wish a channel to be excluded from viewing you must use the 'LOCK' option in this menu.

The following example screen will be viewed for the Lock / Skip menu.



An explanation of the 'LOCK/SKIP' menu is given below.

CH: 'Channel number' 'Channel Name'

The channel number can be selected by using the up/down arrow buttons. The channel name will automatically be displayed if assigned.

LOCK: ON/OFF

With 'ON' selected the channel number shown will be locked out and as such no picture or sound will be available.

In normal viewing when a locked channel is selected you will be prompted to enter your four digit code, which if correct will automatically unlock the channel and allow the channel to be viewed and listened to.

SKIP: ON/OFF

Channels selected to be skipped (ON) cannot now be viewed during a channel search using the up/down or +/- 10 buttons.

5.4.4 Programming Menu Option 4: Favourite Menu.

This menu allows you to set up your favourite preset channels F01 to F20.



An explanation of the 'FAVOURITE' menu is given below.

FAV: 'F01 - F20'

This is the favourite preset number. Use the left/ right arrow buttons to select any one of the twenty favourite presets.

CH: 'Channel Number'

This is the channel number associated with the favourite preset shown. To change the channel number use the up/down buttons on the remote control.

NAME: 'Channel Name'

This is the channel name as assigned in the channel setup menu. It cannot be changed within this menu. If you wish to change the assigned channel name use the 'Channel Setup' menu as described in section 5.4.2.

Not all channels will be assigned a channel name as the unit leaves the factory, since certain channels do not have any transmissions on them at the time of manufacture. This can however change in the future when new programmes appear on previously blank channels. You can then assign your own channel name using the 'Channel Setup' menu as described in section 5.4.2.

5.4.5 Programming Menu Option 5: Audio Menu.

The 'Audio Menu' is used to change the setup of the audio modes A1 to A32. A table showing the factory preset audio modes can be viewed in the Appendix, section 4, Table 1.

AUDIO

MODE: A1 ST

LEFT: 7.02

RIGHT: 7.20

DE-EM: 50U

NRS: ON

B/W: 100

USE KEYS

STO=SAVE

LAST MENU

An explanation of the 'AUDIO' menu now follows.

MODE: 'Audio Mode'

This is the audio mode selected in the range A1 to A32.

ST or MONO

This selects stereo or mono sound. With 'ST' (stereo) selected, the screen will prompt you to input values for the left and right audio frequencies. Using the up / down buttons you can alter the current settings.

LEFT: 7.02

This is the current audio frequency in MHz of the left audio channel.

RIGHT: 7.20

This is the current audio frequency in MHz of the right audio channel.

If 'MONO' is selected the 'LEFT' and 'RIGHT' frequency prompts are removed from the screen and in their place 'FREQ: 'appears with the currently set audio frequency. This frequency can be altered using the up/down arrow buttons.

DE-EM: 'De-Emphasis Value'

This is the current selected audio de-emphasis. Selection is available for 50us, 75us, J17 and OFF.

NRS: 'ON or OFF'

Noise Reduction System (NRS) can be selected to be either 'ON' or 'OFF' by using the up/down arrow buttons.

Wegener) companded audio channels. This noise reduction system automatically corrects the treble/bass sound balance and removes noise in quiet passages.

B/W: 'Bandwidth Selection'

This is the frequency modulated (FM) audio sub-carrier frequency deviation. Selection is available for 100, 200, 300 and 400KHz.

© Current Astra stereo transmissions use 50uS de-emphasis and 100KHz FM deviation except 6.50MHz which should be set at 200KHz.

5.4.6 Programming Menu Option 6: LNB Setup.

The LNB Setup menu is used to configure the receiver for use with the outdoor units LNB.



An explanation of the 'LNB SETUP' menu is given below.

LNB A: 'Oscillator Frequency'

This allows the selection of the Local Oscillator frequency for your LNB. There is a table of frequencies in the Appendix, section 5, Table 1.

OFFSET: 'IF Offset'

This is the Intermediate Frequency (I.F.) Offset. You can frequency offset all channels received from the LNB by +/- 15MHz. This allows fine frequency tuning of your receiver to obtain the best picture.

VID LVL: 'Video Level'

This is the video level adjust. The effect of altering this setting will appear as a change in contrast on your TV picture, eight settings are available. The receiver is factory set to provide the correct video level for current ASTRA transmissions and as such will not normally require any adjustment. However, you can alter the setting so as to obtain a picture contrast level that is similar to your local TV transmissions if so required.

For VideoCrypt (TM) encrypted channels, the video level adjust has no effect.

LNB B: 'Oscillator Frequency'

For installations fitted with a second LNB and switchbox you can repeat the LNB setup as described above.

OFFSET: 'IF Offset'

As above.

VID LVL: 'Video Level'

As above.

5.4.7 Programming Menu Option 7: Installation.

The 'INSTALLATION' menu is used to setup the receivers internal audio volume setting and output PERITEL signals to a VCR or external decoder



An explanation of the 'INSTALLATION' menu is given below.

VOLUME: 'Volume Level'

This is the volume level adjust setup. This can be input as any value between 0 - 31. Volume mute is 0. Use the up/down arrow buttons to change the volume setting.

DEC: 'NORM / BBAND / UNCLMP'

This selects the signal to be sent to an external decoder from the receiver's DECODER scart connector at the back of the unit. The selection within this menu will depend on the type of decoder being used, consult your local supplier for advice. Selection is made by using the up/down arrow buttons

BBAND is the abbreviation for baseband. NORM is the abbreviation for normal video. UNCLMP is the abbreviation for Unclamped unfiltered, de-emphasised video.

VCR: 'NORM / BBAND / UNCLMP'

This selects the signal to be sent to a VCR from the receivers VCR scart connector at the back of the unit. The signal selection should be set to NORM which refers to normal video when connecting to a VCR. Selection is made by using the up/down arrow buttons.

You can connect an external decoder to the VCR scart connector on the receiver. It may be neccessary to change the signal selection within the VCR section of this menu as explained above. This is useful when you want to connect a second external decoder to your receiver.

5.4.8 Programming Menu Option 8: Change Lock Code.

The 'CHANGE LOCK CODE' menu allows you to change your code number. You are prompted to

enter your new code number e.g.1234. The TV screen will now show the following.



You are now prompted to **re-enter the code to confirm that it is correct.** As you enter the code a second time an asterisk will appear on the screen for each digit entered.



If the code entered is correct, you will be returned to the programming menu.

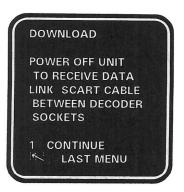
KEEP A NOTE OF YOUR 4-DIGIT CODE IN A SAFE PLACE

If the code is incorrectly re-entered then the screen will display the message 'INVALID' and return you to the programming menu after a few seconds.

In the event that you forget your 4 digit code and or the code you enter continually results in 'INVALID' being displayed on the TV screen then refer to the 'Troubleshooting Guide' in the Appendix which will tell you how to return the unit to the factory default setting of '0000'.

5.4.9 Programming Menu Option 9: DOWNLOAD

The 'DOWNLOAD' menu is used for transferring receiver settings from one receiver to an identical receiver. This will be useful when installing a second receiver and you wish the setup of the second unit to be the same as that of the first.



The SCART cable should be connected between the 'DECODER' scarts on the two units.

Press '1' to continue the download operation.

The screen will now display the following text.



With the unit to receive data connected to the mains supply the other receiver will commence the data transfer, this typically takes 5 seconds.



During this time the TV screen will display the above text. When the download process has finished the message 'COMPLETE' will appear and the standby LED indicator will be illuminated on the unit that has just received the data. You will then be returned to the 'PROGRAMMING' menu. This unit can now be disconnected from the other receiver and used as normal.

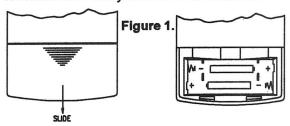
In the event that the download process has not been successful the word 'ERROR' will appear on the screen, before returning to the 'PROGRAMMING' menu.

Section 1.

1.1 Inserting / Replacing the Remote Control Batteries.

Unclip the battery compartment lid and insert two new type AAA batteries, taking care that the correct polarity is observed as depicted on the inside of the battery cover and as shown in figure 1. If the remote control handset stops working, or more likely, the range of operation reduces, it is probable that the batteries need to be replaced.

If you are going to leave the remote control handset unused for more than a few weeks, it is recommended that you remove the batteries.



Battery Cover Removal

Battery Insertion

1.2 Troubleshooting Guide.

- Q. I can receive some channels perfectly, but other channels show a very distorted picture or barely audible soundtrack.
- A. You have probably tuned to an encoded channel.
- Q. The Receiver will not respond to any functions.
- A. Ensure that the following functions are not activated.
- 1. 'DISPLAY LOCK' .This will be shown as 'LOC' on the front panel display, see section 3.2.
- 2. 'EVENT TIMER'. This will be shown as 'Et' followed by an event number as explained in section 5.3.

If neither of these functions are activated then switch off at the mains and wait approximately ten seconds. If the receiver still does not respond when reconnected to mains, consult your local supplier.

- Q. The satellite picture is received adequately, but the picture is covered in white or black sparklies.
- A. First try frequency tuning the Receiver as described in the 'LNB Setup' in section 5.4.6. of this manual. If this does not help, check the outdoor unit / cable installation.

- Q. Interference appears on the satellite picture when the video recorder is switched on, but reception is perfect when fed direct to the television.
- A. The video recorder's modulation frequency is interfering with the Satellite Receiver's modulation frequency. Retune the Satellite Receiver as described in Part 2 of this manual.
- **Q.** I am receiving sound simultaneously in two different languages.
- A. You are tuned to a channel with a choice of mono soundtracks in different languages. You have probably selected one of the audio modes which treat two soundtracks as a stereo signal. Select one of the audio modes for the appropriate language.
- Q. I have very noisy sound on all channels.
- A. The PAL I/G switch may be set in the wrong position. This switch is located at the back of the receiver (see the Appendix section 3. figure 2.). For use with TVs in the UK and Eire this switch should be in the 'I' position. For use with TVs in non UK and Eire countries set the switch to the 'G' position.
- Q. I have forgotten my 4 digit code or the code I enter results in 'INVALID' on the TV screen.
- A. You can reset your 4 digit code to the factory setting of '0000' by following the steps given below.
- Unplug your receiver from the mains and wait at least 10 seconds before carrying out the next step.
- 2. With the front flap down, press and hold in one of the following buttons depending on your country of residence.

Channel down button for UK and Eire. Channel up button for Germany. Display lock button for France. Standby button for Spain.

With the appropriate button held in, plug the receiver back into the mains. Now take your finger off the button and wait for approximately 25 seconds, at which point the receiver will power on to Favourite channel F01.

- This procedure is known as factory reset. If implemented all picture and audio settings will be reset to the original factory settings i.e. all previous customisation will be lost. The receiver's 4 digit code will now be '0000'. You can change this factory set code to your own personal code by following the instructions in section 5.4.8.
- Q. The display on the receiver is flashing the text 'S.C.' and the receiver does not operate.
- A. This indicates a short circuit on the LNB input. Disconnect your receiver from the mains and contact your supplier.

Section 2. Installation Diagrams

CONNECTION CODE
--- = SCART CONNECTIONS
--- = CO-AXIAL CONNECTIONS

Figure 1. Connecting your Satellite Receiver to a TV.

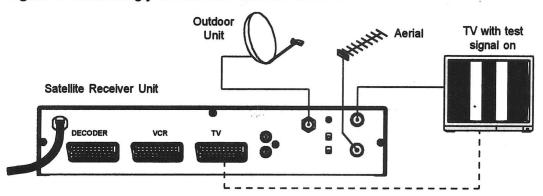


Figure 2. Connecting your Satellite Receiver to your TV via your Video Recorder.

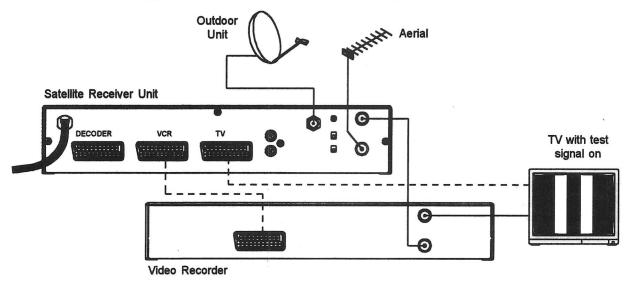
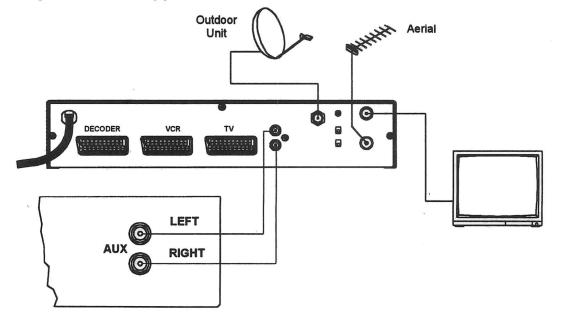


Figure 3. Connecting your Satellite Receiver to a Hi-Fi.



Section 3. Receiver Diagrams

Figure 1. Front Panel Diagram.

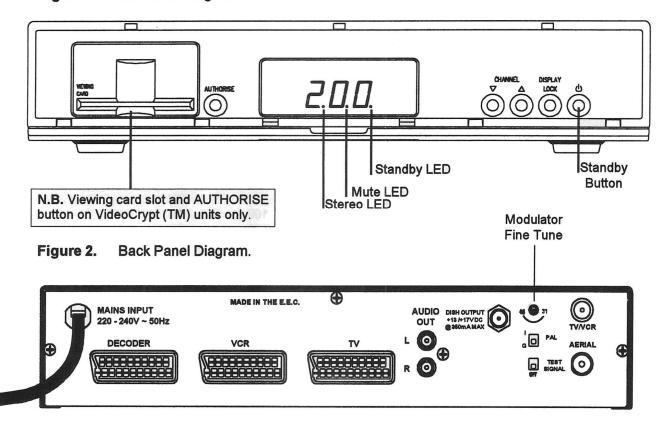
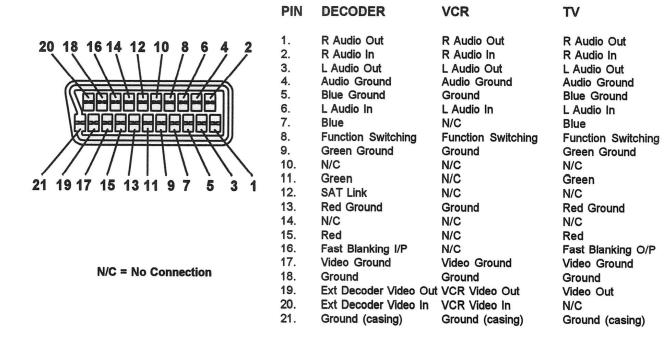


Figure 3. SCART Pin Out Diagram.



Section 4. Factory Audio Settings

Table 1.	Preset Audio Modes A1 to A32.				
Mode	Frequency(MHz)	Stereo/Mono	De-em	B/W (KHz)	NRS
A1	7.02 / 7.20	Stereo	50uS	100	ON
A2	7.38 / 7.56	Stereo	50uS	100	ON
A3	7,74 / 7.92	Stereo	50uS	100	ON
A4	6.30 / 6.48	Stereo	50uS	100	ON
A5	6.66 / 6.84	Stereo	50uS	100	ON
A6	5.80	Mono	J17	300	OFF
A7	6.50	Mono	50uS	200	OFF
A8	6.60	Mono	50uS	100	OFF
A9	6.60	Mono	J17	300	OFF
A10	6.65	Mono	50uS	100	OFF
A11	7.02	Mono	50uS	100	ON
A12	7.20	Mono	50uS	100	ON
A13	7.38	Mono	50uS	100	ON
A14	7.56	Mono	50uS	100	ON
A15	7.74	Mono	50uS	100	ON
A16	7.92	Mono	50us	100	ON
A17	8.10	Mono	50uS	100	ON
A18	8.28	Mono	50uS	100	ON

The remaining Audio Modes A19 to A32 are set to 7.02MHz i.e. the same as Audio Mode A11.

All 32 audio modes are user re-definable as described in section 5.4.5.

Section 5. Local Oscillator Frequencies.

Table 1. LNB Local Oscillator Frequencies.

Frequency (GHz)	Satellite	
5.15	C Band (Inverts the Video).	
9.75	Reserved for future use.	
10.00	ASTRA / Eutelsat.	
11.475	Telecom.	

The LNB local oscillator frequency is selected in the 'LNB Setup' menu section 5.4.6.

TECHNICAL SPECIFICATIONS

GENERAL

Number of Channels:

Front Panel Display:

Front Panel Control:

Internal Decoder:

Event Timer:

200.

3 digit LED.

Channel up/down,

Standby, Display Lock, Authorise (VideoCrypt

(TM) only).

VideoCrypt (TM) equipped units only.

Programmable Functions: Via menu driven On

> Screen Programming. 8 events over 28 day

period.

UHF Modulator: Channel 31 to 45 PAL

I/G selectable including

test pattern signal. 180 - 265 V AC 50 Hz.

Mains Voltage:

Power Consumption: 30 W max.

Dimensions (approx): Weight Packaged:

326 x 193 x 63 mm.

2.5Kg.

VIDEO

Energy Dispersion

Removal: Video Invert:

Contrast (Bandwidth):

(Selectable)

Decoder Signals:

Normal Video. Baseband and De-emphasised

Selectable (C-Band).

8 levels (14-25 MHz/

unfiltered unclamped.

CONNECTORS

TV:

DECODER 1:

VCR/DECODER 2:

Aerial: TV:

LNB:

Audio (Left / Right):

Mains:

SCART.

40dB

SCART. SCART.

IEC female.

IEC male. F-type female.

RCA Phono.

Moulded 3 pin plug and cable, (2 pin plug on

European Version).

TUNER

Frequency Range:

Input impedance: I.F. Bandwidth:

I.F. Frequency:

Input Power Range:

Image rejection:

Threshold (static):

950 - 2050 MHz.

75 Ohms. 27 MHz.

479.5 MHz.

- 65 to - 25 dBm.

40 dB. 6 dB.

AUDIO

Stereo:

Tuning Range:

(Both channels independent)

Audio Bandwidth:

400KHz selectable.

Mono / Stereo

100,200,300 and

5 to 10 MHz in

10KHz steps.

selectable.

50uS.75uS.J17 and

OFF selectable.

Volume Adjust:

De-emphasis:

0dB to -31dB and

Mute.

Noise Reduction (NRS):

Preset Audio Modes:

ON/OFF selectable A1 to A32 all user programmable.

OUTPUT LEVELS

Video level (75 Ohm):

Video Frequency

Range:

Video De-emphasis:

CCIR 405 - 1 (625

1Vp-p +/-3dB.

25Hz - 10.5MHz.

1Vp-p +/- 2dB.

25Hz - 4.8 MHz.

lines).

Baseband Level:

Baseband Frequency

Range:

Audio Frequency

Range:

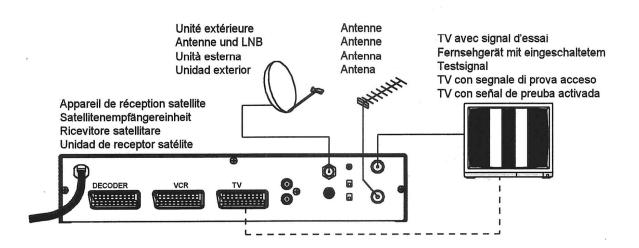
Audio level:

25Hz - 15KHz

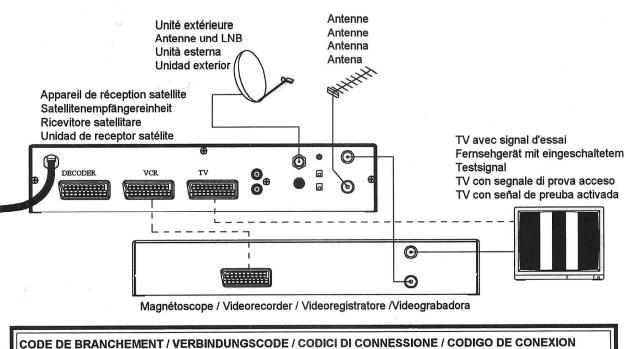
700mV into 10K Ohm.

VideoCrypt is a licensed trademark of Thomson Consumer Electronics and News Datacom.

SECTION 2- FIGURE 1.

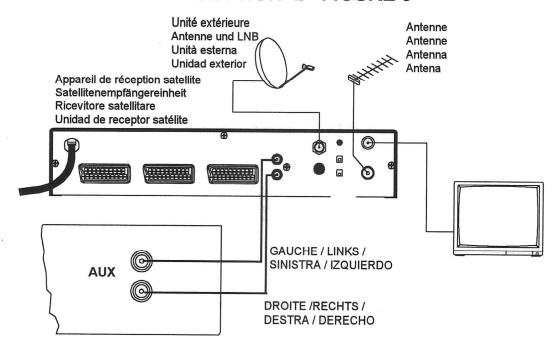


SECTION 2-FIGURE 2.

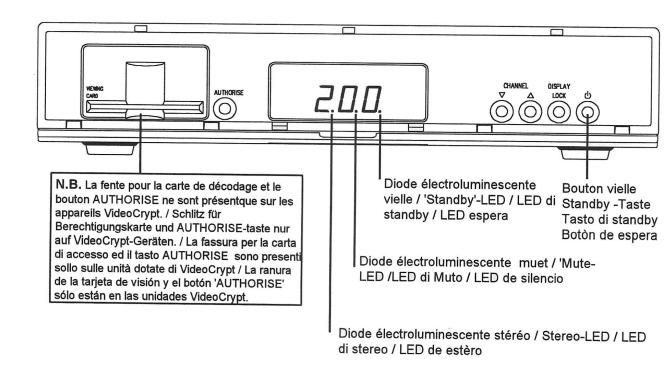


CODE DE BRANCHEMENT / VERBINDUNGSCODE / CODICI DI CONNESSIONE / CODIGO DE CONEXION = BRANCHEMENT PERITEL / SCART VERBINDUNGEN / CONNESSIONI SCART / CONEXIONES SCART = BRANCHEMENT COAXIAL / KOAXIAL VERBINDUNGEN / CONNESSIONI COASSIALI / CONEIONES COAXIALES

SECTION 2-FIGURE 3

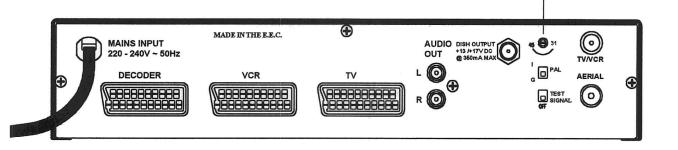


SECTION 3 - FIGURE 1

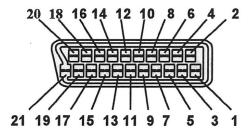


SECTION 3 -FIGURE 2

Réglage précis du modulateur Modulator-Fieneinstellung Sintonia del modulatore Sintonía fina del modulador



SECTION 3 - FIGURE 3



N/C = Non Connexion N/C = nessun Collegamento S/C= Sin Conexión

BROCHE	DECODER	VCR	TV
1.	Sortie audio D	Sortie audio D	Sortie audio D
2.	Entrée audio D	Entrée audio D	Entrée audio D
3.	Sortie audio G	Sortie audio G	Sortie audio G
4.	Audio Masse	Audio Masse	Audio Masse
5.	Masse bleu	Masse	Masse bleu
6. 7.	Entrée audio G	Entrée audio G	Entrée audio G
7.	Bleu	N/C	Bleu
8.	Commutation lent	Commutation lent	Commutation lent
9.	Masse vert	Masse	Masse Vert
10.	N/C	N/C	N/C
11.	Vert	N/C	Vert
12.	Liaison satellite	N/C	N/C
13.	Masse rouge	Masse	Masse Rouge
14.	N/C	N/C	N/C
15.	Rouge	N/C	Rouge
16.	Entrée commutation rapide	N/C	Sortie commutation rapide
17.	Masse Vidéo	Masse Vidéo	Masse Vidéo
18.	Masse	Masse	Masse
19.	Sortie vidéo décodeur externe	Sortie vidéo magnétoscope	Sortie vidéo
20.	Entrée vidéo décodeur externe	Entrée vidéo magnétoscope	N/C
21.	Masse (châssis)	Masse (châssis)	Masse (châssis)

1. Audio-Ausgang R 2. Audio-Ausgang L 3. Audio-Ausgang L 4. Audio-Masse 4. Audio-Masse 6. Audio-	;	STIFT	DECODER	Page 95 VCR	TV
Audio-Eingang R Audio-Eingang R Audio-Eingang R Audio-Augang L Audio-Eingang L Biau Masse Biau-Masse Audio-Eingang L Biau Audio-Eingang L Audio-Eingang L Biau Audio-Eingang L Audio-Eingang L Biau Audio-Eingang C Grün		1.	Audio-Ausgang R	Audio-Ausgang P	Audio Auggong D
Audio-Ausgang L Audio-Eingang L Audio-Eing					
Audio-Masse					el sous and
5. Blau Masse Masse Blaue Audio-Eingang L Audio-Eingang L <th< td=""><td></td><td></td><td></td><td></td><td></td></th<>					
				2000	
7. Blau Kelne Verbindung Blau 8. Funktionsschaltung Funktionsschaltung Funktionsschaltung 9. Grün Masse Masse Kelne Verbindung Kelne Verbindung 10. Kelne Verbindung Kelne Verbindung Kelne Verbindung Kelne Verbindung 12. SAT-Verbindung Kelne Verbindung Kelne Verbindung Kelne Verbindung 15. Rot Kelne Verbindung Kelne Verbindung <td></td> <td></td> <td></td> <td></td> <td></td>					
8. Funktionsschaltung Funktionsschaltung Funktionsschaltung 9. Grün Masse Keine Verbindung Schnelles Austastausgangssignal Verbindung Keine					
	8	3.			
Nelne Verbindung Keine Verbindung Gran	9	€.			
11. Grün	1	10.	Keine Verbindung	Keine Verbindung	
13. Rot Masse	1	1.	Grün	5 10 10 10 10 10 10 10 10 10 10 10 10 10	· ·
13. Rot Masse 14. Keine Verbindung 15. Rot 16. Schnelles Austasteingangssignal 17. Video Masse 18. Masse 19. Ext. Dekoder Video-Ausgang 20. Ext. Dekoder Video-Engang 21. Masse (Gehäuse) 22. Ext. Dekoder Video-Engang 23. Uscit audio dx 22. Entrata audio dx 23. Uscit audio dx 24. Masse audio 25. Massa Blu 26. Entrata audio dx 27. Entrata audio ex 28. Entrata audio ex 29. Ext. Dekoder Video-Engang 29. Ext. Dekoder Video-Engang 21. Masse (Gehäuse) 39. Uscit audio dx 40. Uscit audio dx 41. Uscit audio dx 42. Entrata audio dx 43. Uscit audio ex 44. Massa audio 45. Massa Blu 46. Entrata audio ex 46. Entrata audio ex 47. Blu 48. Interrutore di funzioni 48. Interrutore di funzioni 49. Massa verde 40. N/C 41. Verde 41. Verde 41. Verde 41. Verde 41. Verde 41. Verde 41. N/C 41. Massa Rosso 42. N/C 43. Massa Rosso 44. N/C 45. Rosso 44. N/C 46. Entrata spegnimento veloce 46. Entrata spegnimento veloce 47. N/C 48. Massa 48. N/C 49. N/C 40. N/C 41. Massa Video 48. Massa 49. Uscita video decodific esternot 40. Scilida Audio 1 40. Scilida Audio 1 51. Azul 52. Entrada Audio 1 52. Entrada Audio 1 53. Salida Audio 1 54. Toma a tierra audio 55. Toma a tierra audio 66. Entrada Audio 1 67. Azul 67. Solida Audio 1 68. Conmutación de funciones 69. Toma a tierra audio 69. Toma a tierra audio 60. Si/C 51. Rosso 60. Si/C 61. Entrada Audio 1 62. Entrada Audio 1 63. Salida Audio 1 64. Toma a tierra audio 65. Si/C 66. Entrada de blanqueo rápido 67. Azul 68. Conmutación de funciones 69. Toma a tierra rojo 69. Si/C 60. Si/C 70. N/C 70. Rosso 70. Salida Audio 1 70. Azul 71. Verde 71. Verde 72. Si/C 73. Silida Audio 1 74. Oroma a tierra audio 75. Toma a tierra audio 76. Entrada de blanqueo rápido 77. Azul 78. Collegar en racio riculta de Video 79. Toma a tierra	1	2.	SAT-Verbindung	Keine Verbindung	Keine Verbindung
16. Schnelles Austasteingangssignal 17. Video Masse 18. Masse 19. Ext. Dekoder Video-Ausgang 20. Ext. Dekoder Video-Ausgang 21. Masse (Cabause) 21. Masse (Cabause) 22. Ext. Dekoder Video-Ausgang 23. Wideo-Masse 24. Wasse (Cabause) 25. Masse (Cabause) 26. Entrata audio ax 27. Massa (Cabause) 27. Massa (Cabause) 28. Interrutore di funzioni 29. Massa audio 20. Massa audio 20. Ext. Dekoder Video-Ausgang 21. Masse (Cabause) 21. Wasse (Cabause) 22. Masse (Cabause) 23. Wasse (Cabause) 24. Massa audio ax 25. Massa Blu 26. Entrata audio ax 27. Blu 28. Interrutore di funzioni 29. Massa verde 39. Massa Rosso 39. WiC 31. Verde 31. Verde 31. Verde 31. Verde 31. Verde 31. Verde 31. Massa Rosso 31. Massa Wassa 31. Massa Rosso 31. Massa Wassa 31. Massa Rosso 31. Massa Wassa 32. Verde 33. Massa Rosso 34. NiC 35. Rosso 36. Entrata spenimento veloce 36. Entrata spenimento veloce 37. NiC 38. Massa Rosso 38. Massa 39. Wice 39. Massa Video 39. Massa (Calza) 30. Salida Audio D 30. Salida Audio D 31. Massa (Calza) 31. Massa (Calza) 32. Salida Audio D 33. Salida Audio D 34. Toma a tierra audio 35. Commutación de funciones 36. Entrada Audio D 37. Azul 38. Commutación de funciones 39. Toma a tierra audio 40. SiC 41. Verde 41. Verde 42. Commutación de funciones 43. Commutación de funciones 44. NiC 45. Commutación de funciones 46. Entrada Audio D 47. Azul 48. Commutación de funciones 49. Toma a tierra audio 50. SiC 51. Toma a tierra rojo 52. Toma a tierra rojo 53. Commutación de funciones 54. Toma a tierra rojo 55. Toma a tierra rojo 56. Entrada de blanqueo rápido 57. Toma a tierra rojo 58. Commutación de funciones 59. Toma a tierra rojo 59. Toma a tierra de video 50. Commutación de funciones 50. Co				Masse	Rot Masse
16. Schnelles Austasteingangssignal 17. Video Masse 18. Masse 19. Ext. Dekoder Video-Ausgang 20. Ext. Dekoder Video-Eingang 21. Masse (Gehäuse) 21. Masse (Gehäuse) 22. Entrata audio dx 23. Uscita audio dx 24. Massa audio 25. Entrata audio dx 26. Entrata audio dx 27. Blu 28. Massa Blu 29. Entrata audio dx 30. Uscita audio dx 31. Uscita audio dx 32. Entrata audio dx 33. Uscita audio dx 34. Massa audio 35. Massa Blu 36. Entrata audio dx 37. Blu 37. Blu 38. Interruttore di funzioni 39. Massa verde 39. Salida Audio D 30. Salida Audio D 31. Salida Audio D 32. Entrata Verde 39. Massa Verde 39. Massa Verde 39. Occumutación de funciones 39. Occumutación de funciones 39. Occumutación de funciones 39. Occumutación de funciones 39. Commutación de funciones 39. Comm		THE REAL PROPERTY.			Keine Verbindung
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