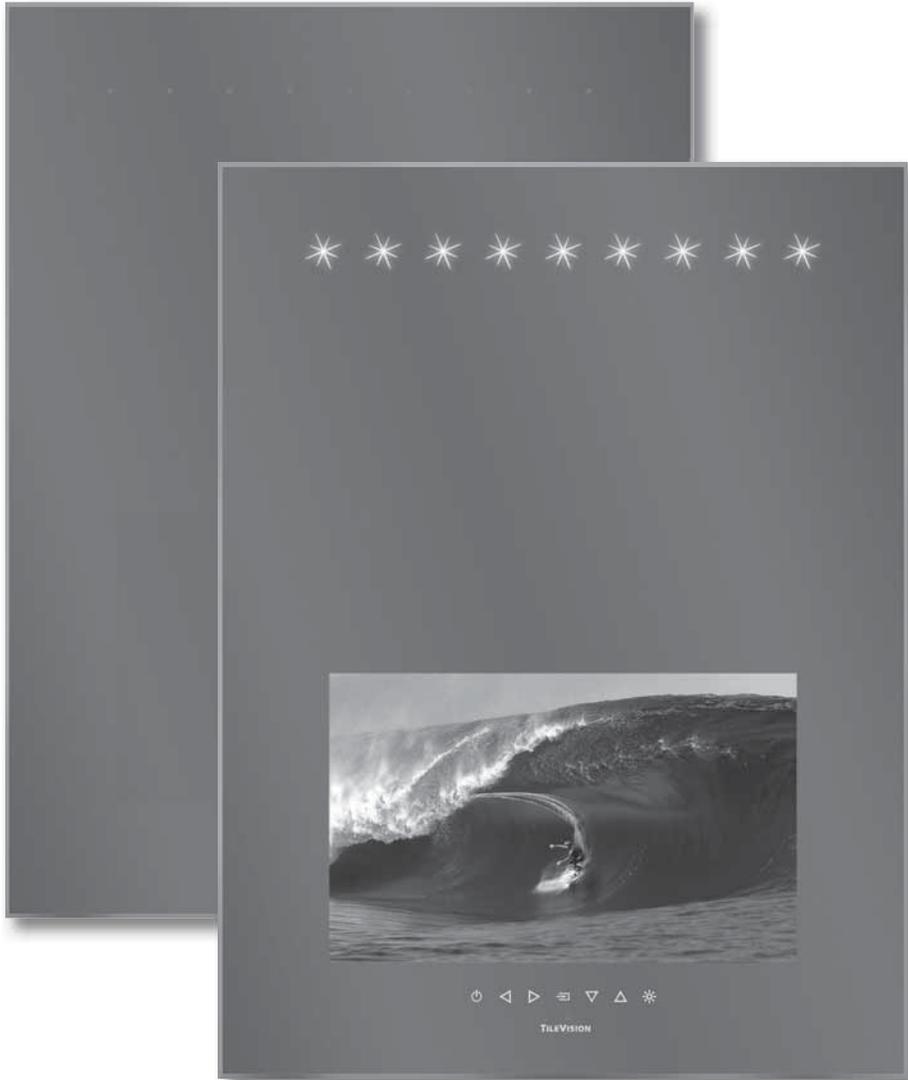


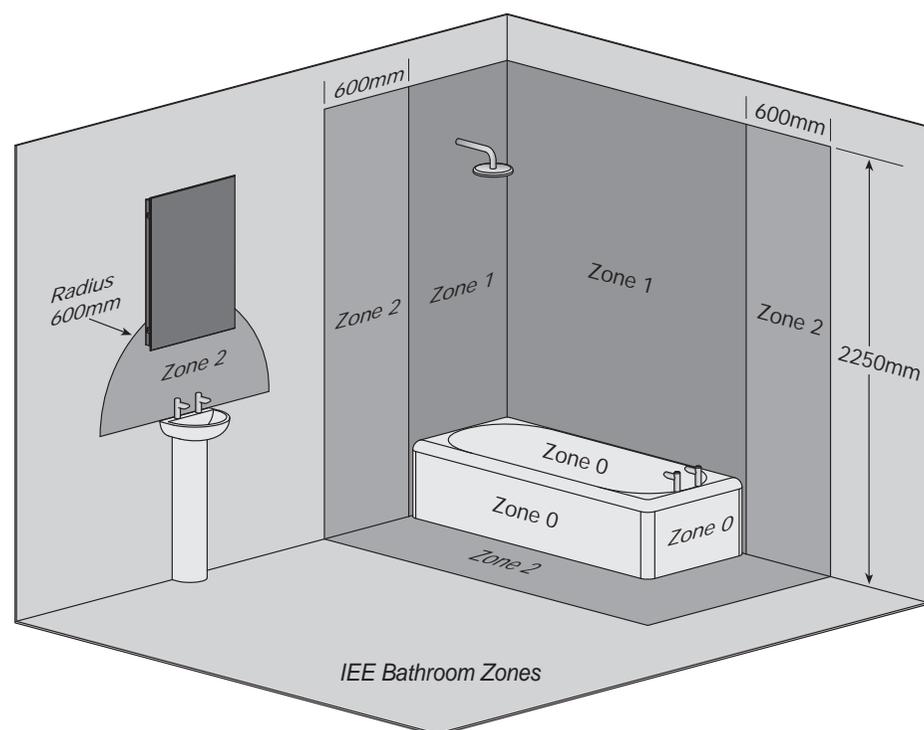
TILEVISION® MIRAGE



CAUTION: RISK OF ELECTRIC SHOCK DO NOT OPEN

WARNING: TO PREVENT INJURY, THIS APPARATUS MUST BE SECURELY ATTACHED TO THE WALL IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS.

CAUTION: DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. BEWARE OF STATIC SENSITIVE PARTS.



This equipment has an IP44 rating and is suitable for use in Zone 2 and Outside Zones.



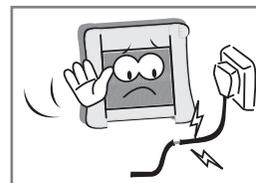
Waste Electrical and Electronic Equipment (WEEE) Directive

In the European Union, this symbol indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.



This product contains Electrical/Electronic Parts which are produced using components in compliance with the requirements of: European Union Directive **2002/195/EC** for the Restriction of the use of certain Hazardous Substances in Electrical and Electronics Equipment (RoHS).

Safety Instructions and Warnings



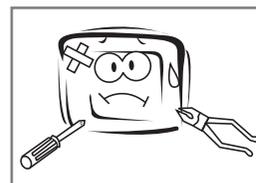
Do not use a damaged socket and do not let the power cord touch a heat source.

This may cause an electric shock or fire.



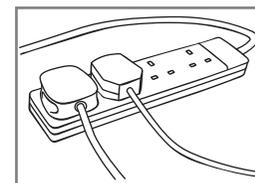
Make sure the wall frame is securely fixed to the wall.

The mirror frame weighs 14.5Kg (32 lb) and when the unit is open during installation all of the weight is on the hinged side.



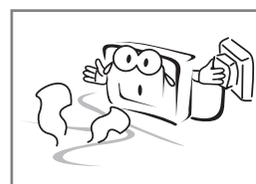
Do not attempt to service the unit. Contact an authorised dealer or repair service.

Servicing the unit yourself may cause an electric shock or fire.



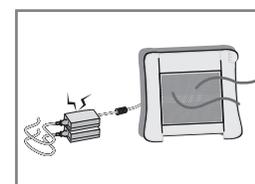
Do not connect the Mirage to a trailing plug and socket outlet.

This may present a shock hazard.



If there are any unusual sounds or smells coming from the unit, turn it off immediately and contact an authorised dealer or repair service.

This may cause an electric shock or fire.



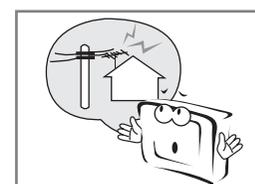
Keep the power adaptor away from any heat source.

This may cause a fire.



If an outside antenna is connected to the unit, ensure the external to internal cable entry is fully sealed

This may cause an electric shock or fire.



Ensure the antenna is located away from overhead cables.

This may cause an electric shock.

This equipment must be installed by a competent person, in accordance with current IEE wiring regulations. If in doubt consult a qualified electrician.

Always switch off the electrical supply at the mains during installation.

Fitting in Bathrooms is subject to the appropriate location (see IEE Zones opposite). Refer to IEE Regulations.

This product is suitable for Zones 2 and Outside Zones. **It is not suitable for installation in Zone 0 or Zone 1.**

It is not suitable for installation in Saunas, Steam Rooms or Shower Cubicles.

Fire and Safety regulations must be obeyed.

The 12VDC power adaptor is not waterproof and so must be positioned in a dry, well ventilated area away from any water and moisture.

This product has an Ingress Protection Rating of IP44 and is only suitable for indoor use.

Make sure the wall frame is securely attached to the wall in accordance with the installation instructions. The mirror frame weighs 14.5Kg (32lb) and when the unit is open during installation all of the weight is on the hinged side.

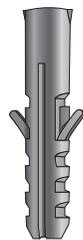
It is recommended that the unit is cleaned with a soft dry cloth when turned off. Do not use abrasive materials.

Failure to observe the above safety warnings may invalidate the warranty.

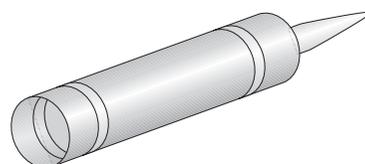
Items Required



No. 10 screws x 8



Wall plugs for solid walls
or expanding fixings for
studded walls x 8



Silicone sealant

The Mirage weighs a total of 16 Kg (35lb) and must be fixed securely to the wall. It will be necessary to use screw fixings which are appropriate for the type of wall in question.

The eight mounting holes in the wall frame are 5.5 mm Ø and will accept a number 10 screw with a head diameter of up to 10 mm.

- ☛ Silicone Sealant produces acetic acid during cure. Use only in well ventilated areas. Irritating to eyes. Wash hands after use and before meals. Wash splashes from skin, clothing and other surfaces. In case of contact with eyes wash immediately with plenty of water.

Please observe safety precautions on the container. Keep out of reach of children and animals.



Table of Contents

Safety Instructions and Warnings	1
Items Required	2
Unpacking Your Mirage	4
Installing the Wall Frame	6
Cabling Overview	7
Fitting the Mirror Frame to the Wall Frame	8
The Mirage Connector Array	10
Connecting an Antenna or Cable	10
The Component and Composite Video Connectors	11
The HDMI and S-VIDEO Connectors	12
The SCART Connector	13
IR Links, RJ12 and RS-232 Connectors	14
The Common Interface (CI) Port	14
Sky™ Remote Control Link Setup	15
The Waterproof Remote Control	16
Installing the Mirage – Setup and Tuning	17
Installing the Mirage – Securing	19
The Touch Controls	19
The Waterproof Remote Control Functions	20
The Standard Remote Control Functions	21
Switching the Mirage On/Off	22
Selecting the On-screen Language	22
Selecting a Source	23
On-screen Menu Summary	24
Auto Tuning	25
DTV Manual Tuning	26
ATV Manual Tuning	27
Programme Edit	28
CI Information	29
Changing Channels	30
Programme Information – Basic and Detailed Programme Information	31
The Electronic Programme Guide (EPG)	32
EPG Date and Programme Reminders	33
Setting Programme Reminders	34
Picture Settings – Setting the Picture Mode and Personal Picture Mode	36
Picture Settings – Setting the Colour Temperature and Personal Colour Temperature	37
Picture Settings – Setting the Aspect Ratio	38
Picture Settings – Noise Reduction and Subtitles	39
Sound Settings – Setting the Sound Mode, Personal Sound Mode and Sound Mute	40
Sound Settings – Adjusting the Balance, Auto Volume and Surround Sound	41
Sound Settings – Audio Language and Channel Assignment	42
Time Functions – Setting On and Off Times	43
Time Functions – Setting the Sleep Timer and Time Zone	44
The Setup Menu – On-screen Language and Audio Language	45
The Setup Menu – Subtitle Language and Hearing Impaired	46
The Lock Menu – Lock System and Change Password	47
The Lock Menu – Block Programme	48
The Lock Menu – Parental Guidance and Restore Setting	49
DTV Text	50
ATV Teletext	51
Troubleshooting	52
IR Links and RJ12 Connections	53
RJ12 Command Code Format	54
IR Remote Control Codes/RJ12 Command Codes	55
Interface Connections – The RS-232 Port	56
Specifications	57

Unpacking your Mirage

Please note – **A technically competent person should carry out the installation of your Mirage.**

☛ If any items are missing, contact the dealer that supplied the Mirage.

The Mirage kit consists of:

- 1 wall frame
- 1 mirror frame
- 1 AC/DC adaptor with integral 4 metre lead and 2 AC leads
- 1 waterproof remote control
- 1 remote control holder
- 1 standard remote control
- 1 Mirage instruction manual.

Unpacking your Mirage

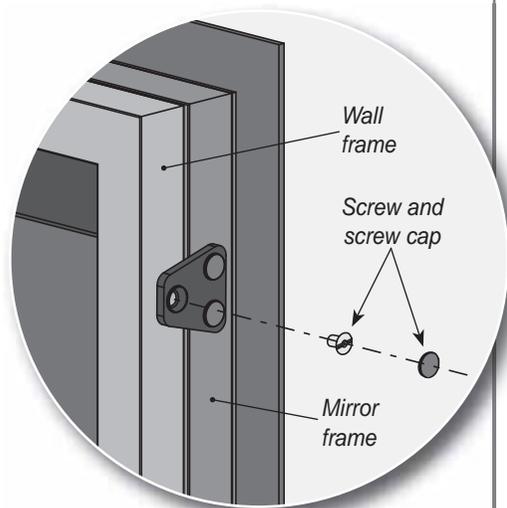
Carefully remove the unit from the packing and lay it mirror side down on a horizontal surface which has been protected to ensure that the mirror does not get scratched.

The plastic film protecting the mirror should be left in place until the unit is fully installed.

Remove the screw cap and screw from each fixing point on the side of the wall frame as shown.

The screws and caps must be retained as they need to be replaced in the fixing points to complete the Mirage installation.

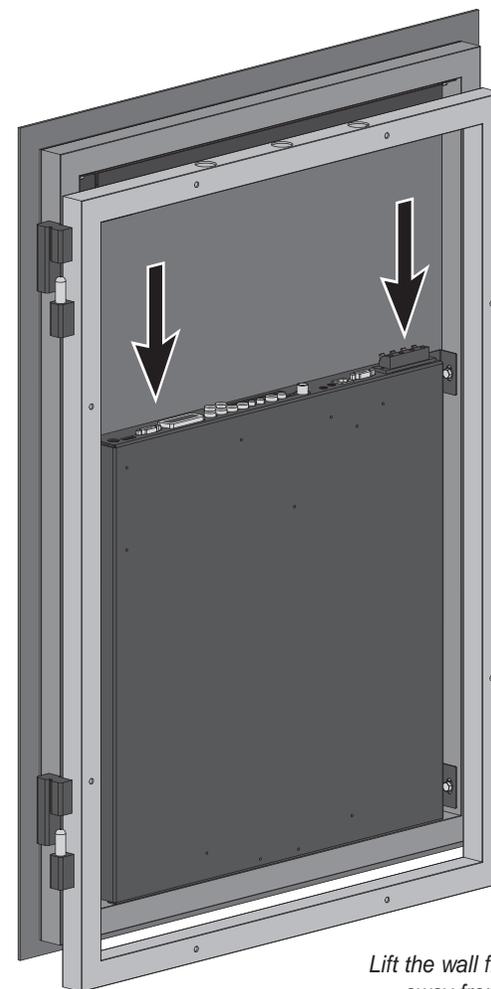
Screws and screw caps



Once both screws have been removed the wall frame can be removed by sliding it off the hinge pins as shown on page 5.

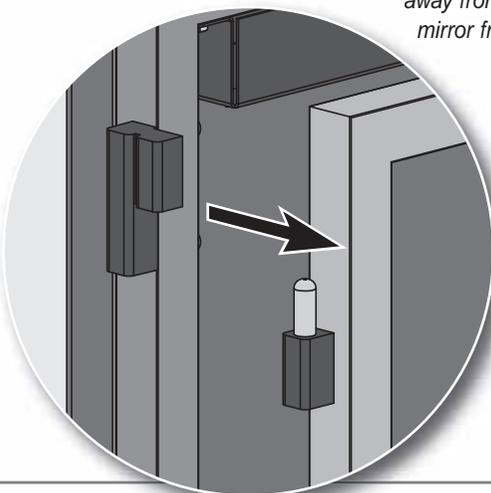
Unpacking your Mirage

Move the wall frame in the direction of the arrows as shown below to separate the wall frame from the mirror frame leaving the mirror frame face down.



Move the frame down until the hinge pins are clear of the hinge.

Lift the wall frame away from the mirror frame.



Installing the Wall Frame

Please note – **All required cabling for HDMI, PC RGB, SCART, S-Video, Component and Composite Video should be installed at this stage.**

Installation and positioning

The cabling to the Mirage can be routed in two ways; either through an aperture in the wall, or vertically from above through the grommets at the top of the wall frame.

If the cabling is to be routed through an aperture in the wall.

The positions of the cable aperture and the inside edge of the wall frame should be marked, and the cable aperture cut, before the wall frame is fastened in place.

Cut the aperture 140 mm from the inside edge of the top of the wall frame and positioned centrally as shown.

Ensure that 500 mm of each cable protrudes through the aperture into the frame as shown.

If the cabling is to be routed via the grommets in the top of the wall frame.

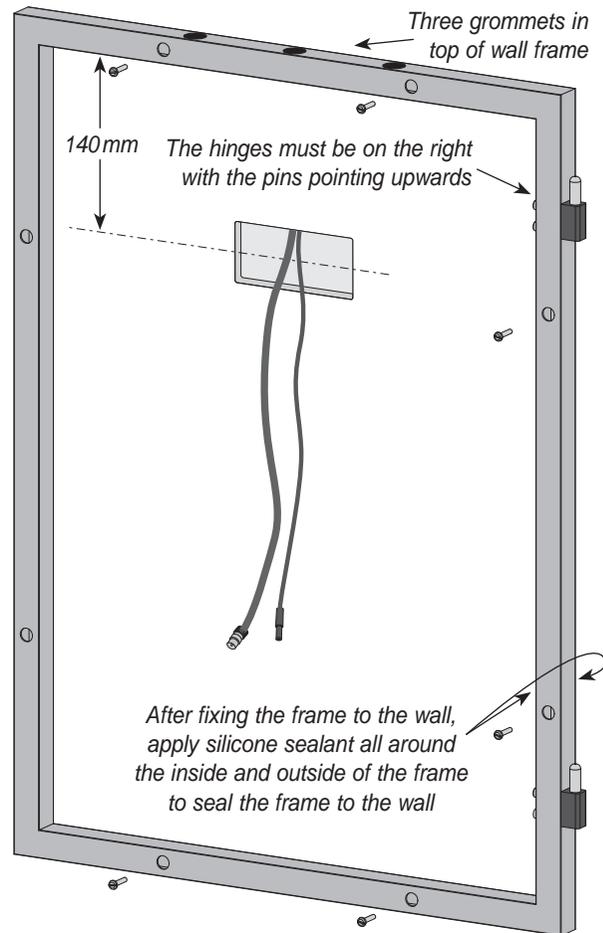
It is essential that 650 mm of each cable protrudes into the frame.

Fasten the wall frame to the wall using fixings which are appropriate to ensure that the wall frame will support the 16 Kg (35 lb) total weight of the Mirage. The hinges MUST be on the right hand side with the hinge pins facing upwards.

Once the wall frame is fastened to the wall, apply silicone sealant between the wall and the wall frame on both the inside and outside of the frame.

Loudspeaker Connections

If external speakers are being used instead of the internal speakers the external speakers must have an impedance of 8Ω. **Only one pair of speakers may be connected at any one time.**



The mirror frame weighs 14.5 Kg (32 lb) and when the unit is open during installation all of the weight is on the hinged side.

Cabling Overview

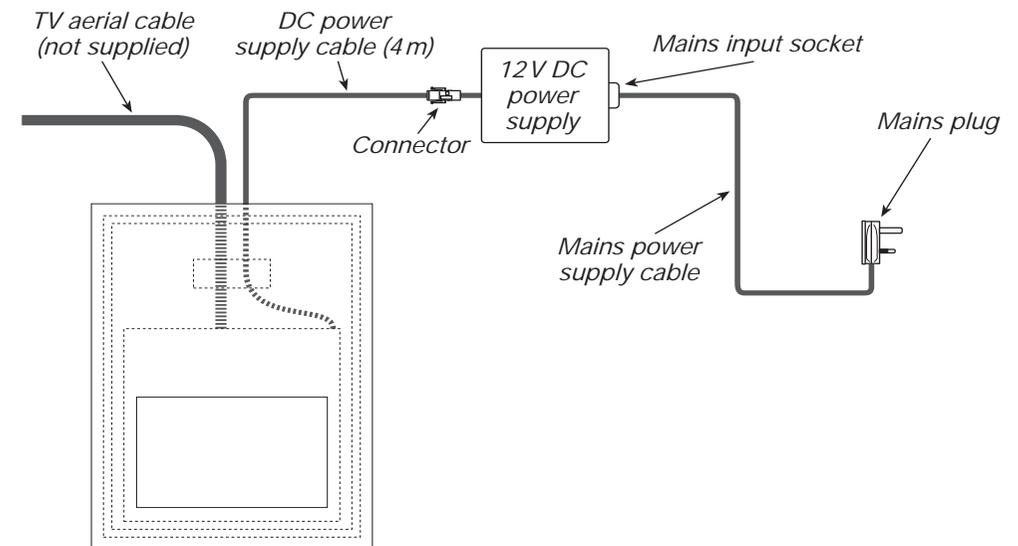
Please note – **All electrical installation should be carried out by a competent person in accordance with current IEE wiring regulations.**

Mirage Power Supply (12V DC)

The 12V DC power supply unit is not waterproof and so must be positioned in a dry, well-ventilated area outside the bathroom. It is fitted with an integral 4 metre lead which must not be cut, shortened or lengthened – this could potentially damage the power supply unit and the Mirage and have implications regarding safety.

The mains plug of the Mirage should be connected to a mains socket with a protective earth connection supplied via a readily operable disconnection device. The disconnect device such as a circuit breaker or switch should have contact separation of at least 3 mm in each pole and shall disconnect each pole simultaneously.

Either pierce a grommet in the wall frame and feed the cable from the power supply through the frame or feed the cable through an aperture as shown on page 6.



TV Aerial Feed

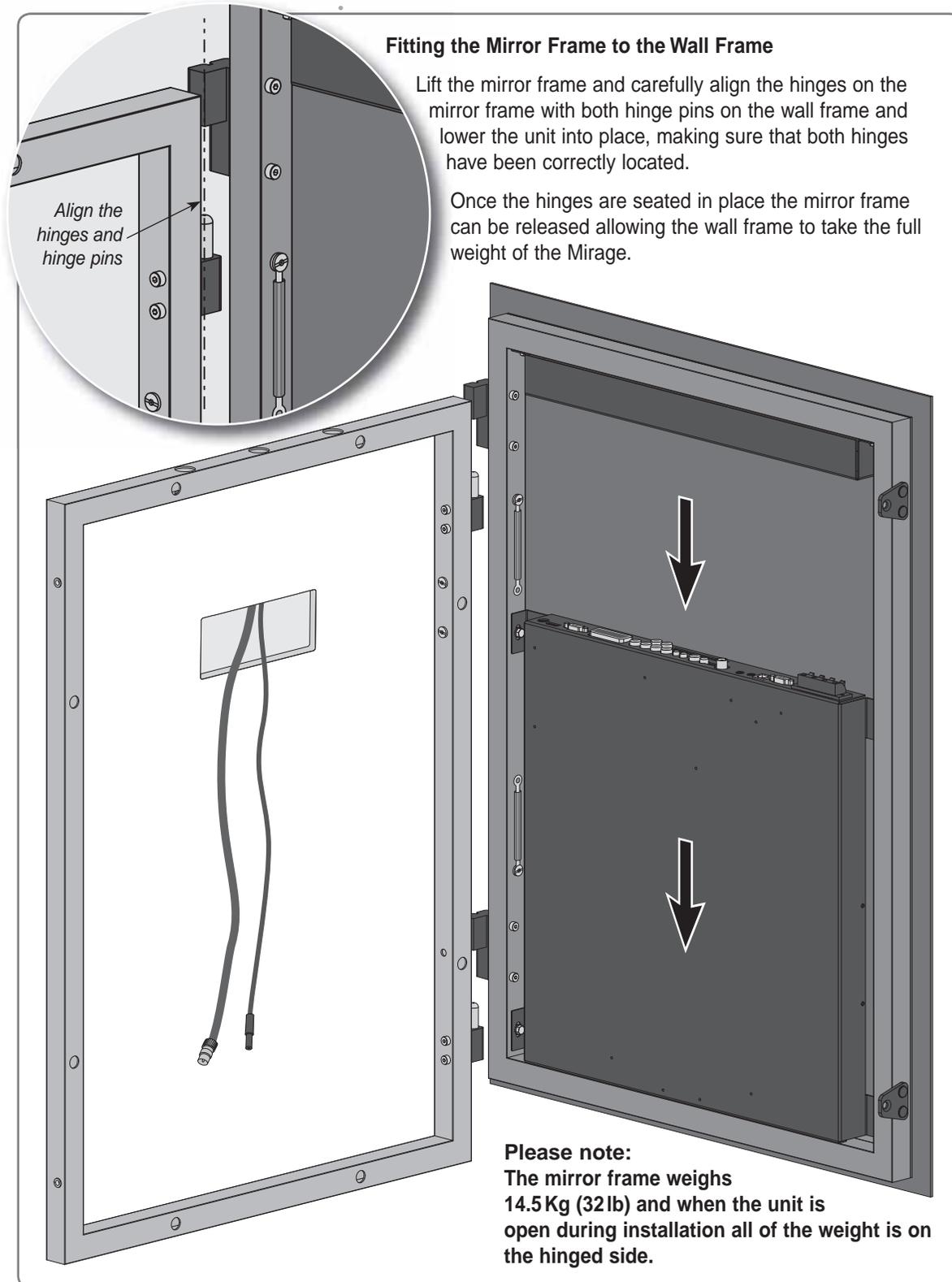
A TV Distribution Amplifier may be required if you are in an area of weak signal or if other televisions are already being fed from the aerial. If in doubt, consult a qualified aerial technician.

If the Mirage is to be used with a Sky™ box which has two RF outputs, the channel can be changed on the Sky™ box using the Sky™ remote control via the Mirage. To use this facility install a good quality coaxial cable that runs directly from the RF2 outlet of the Sky™ box, or from the outlet of a Remote-Link amp, in a continuous uninterrupted run.

The Mirage will accept additional inputs from many sources and can be integrated with home automation and interactive hotel TV systems. See pages 10 to 15 for specific information.

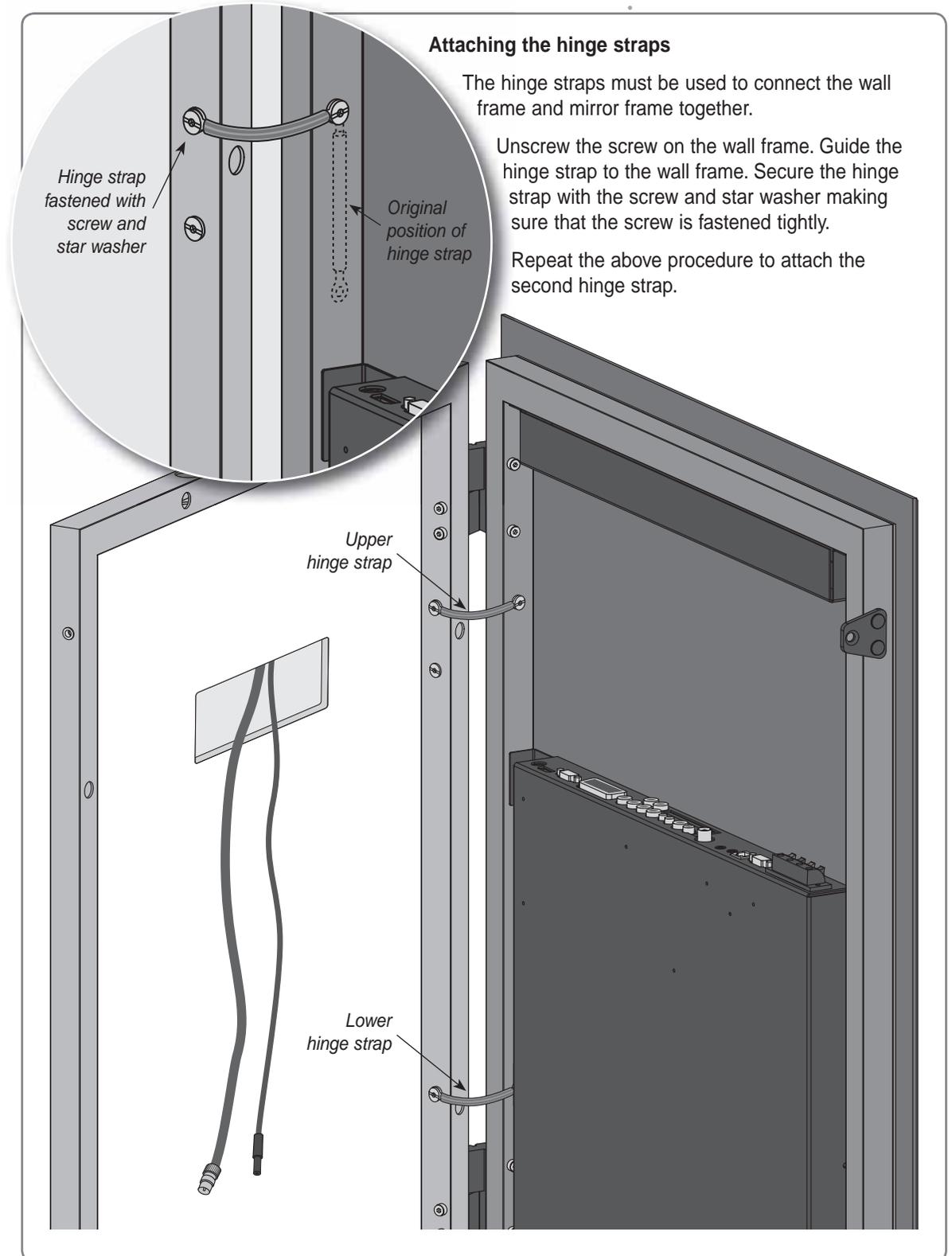
Fitting the Mirror Frame to the Wall Frame

Ensure that the Mirage does not come into contact with water whilst it is open.



Fitting the Mirror Frame to the Wall Frame

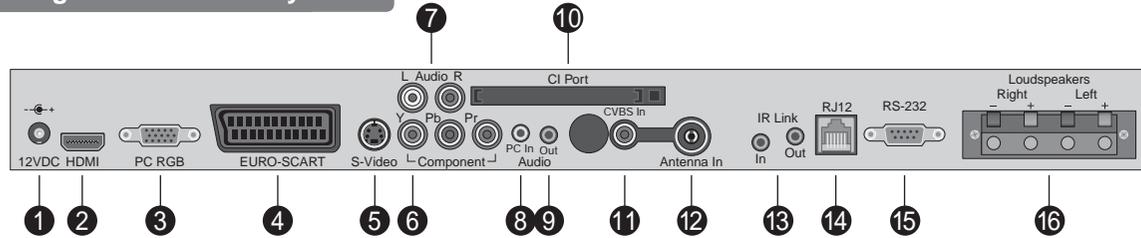
Ensure that the Mirage does not come into contact with water whilst it is open.



Mirage Connector Array

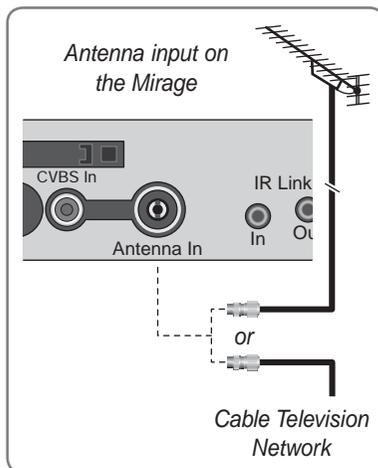
Ensure that the Mirage does not get splashed whilst it is open.

Mirage Connector Array



- | | |
|---|---|
| <ul style="list-style-type: none"> 1 DC12V Power In 2 HDMI (High Definition Multimedia Interface) 3 PC/Analog RGB Input (D-SUB) 4 EURO-SCART – (RGB, FB, AV In, AV Out) 5 S-VIDEO In 6 Component Video Inputs: Green = Y, Blue = Pb (Cb), Red = Pr (Cr) 7 Component/S-VIDEO Audio In: White = Left, Red = Right 8 PC Audio In | <ul style="list-style-type: none"> 9 Audio Out (Headphones) 10 CI Port for Conditional Access Module (CAM) 11 Composite Video Input (CVBS) 12 Antenna Input 75Ω 13 Infrared Link – In and Out 14 RJ12 – for Hotel TV System Integration 15 RS-232 – for Home Automation Systems 16 Loudspeaker Connections – <i>The internal speakers are connected during manufacture. External 8Ω speakers can be used instead of the built-in speakers but only one pair of speakers may be connected at any one time.</i> |
|---|---|

Connecting an Antenna or Cable



To view television channels, a signal must be received by the Mirage from one of the following sources:

- an antenna
- a satellite receiver
- a cable television receiver.

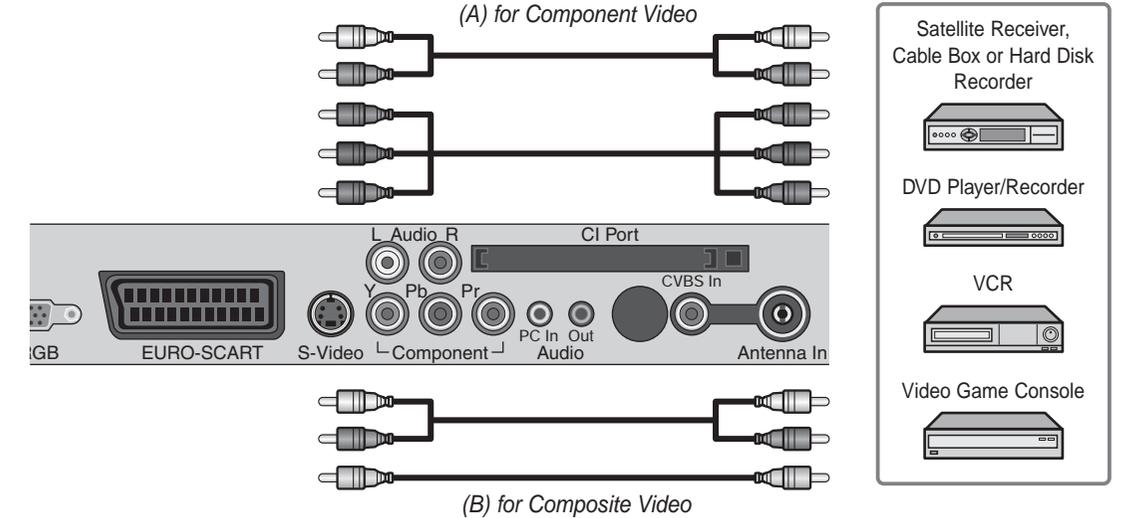
Antenna Feed

Connect the antenna or input cable to the 75Ω coaxial connector on the rear of the Mirage.

Picture quality is determined by the signal level, it is recommended that a qualified aerial technician is consulted.

The Component and Composite Video Connectors

Ensure that the Mirage does not get splashed whilst it is open.



(A) For Component Video

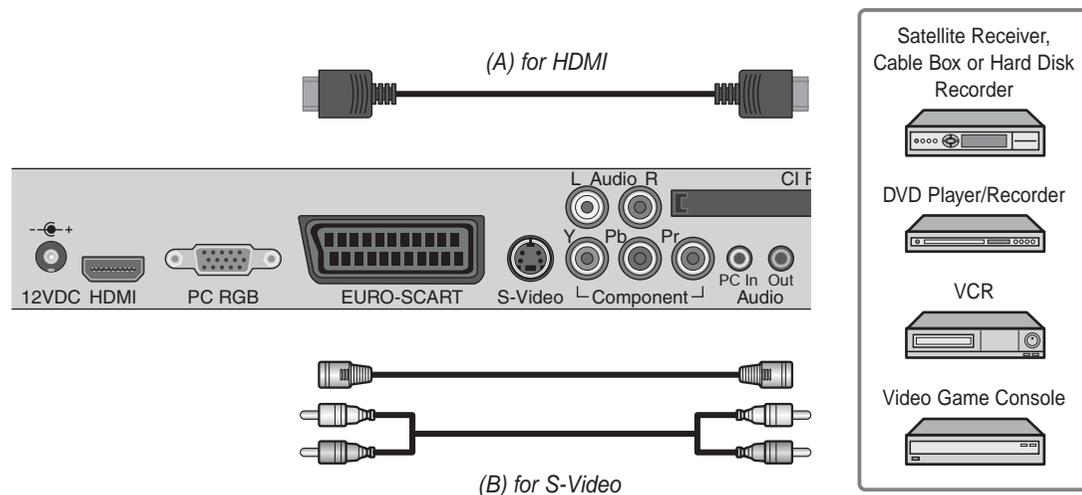
- 1 Connect the audio cable to the Left and Right Audio connectors (white and red) and the video cable to the Component Y, Pb and Pr Inputs (green, blue and red) on the Mirage and the corresponding connectors on the external equipment such as a satellite receiver or DVD player.
- 2 If the external equipment only has a mono audio connector, it should be connected to the left (white) connector of the Audio Input.

(B) For Composite Video

- 1 Connect the audio cable to the Left and Right Audio connectors (white and red) and the video cable to the CVBS Composite connector (yellow) on the Mirage and the corresponding connectors on the external equipment such as a satellite receiver or DVD player.
- 2 If the external equipment only has a mono audio output, it should be connected to the left (white) connector of the Audio Input.

The HDMI and S-VIDEO Connectors

Ensure that the Mirage does not get splashed whilst it is open.



(A) For HDMI

- 1 Connect the HDMI cable to the HDMI connection on the Mirage and the HDMI connection on the external equipment such as a satellite receiver or DVD/Blue-ray player.

(B) For S-VIDEO

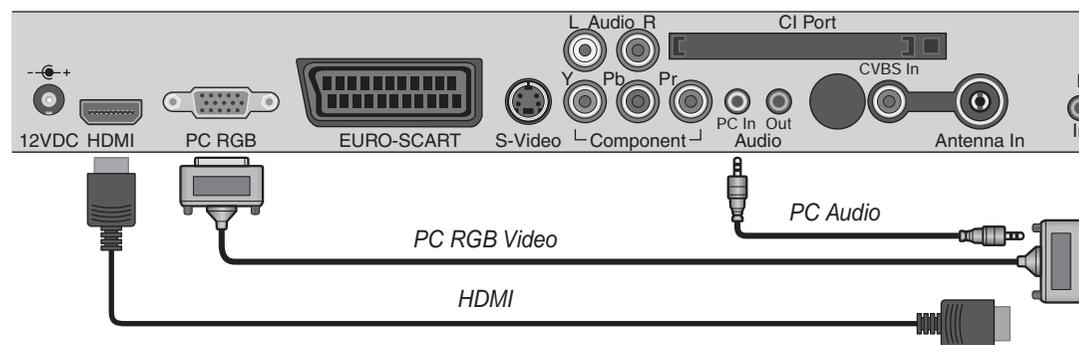
- 1 Connect the S-VIDEO cable to the S-VIDEO connector and the audio cable to the Left and Right Audio connectors (white and red) on the Mirage and the S-VIDEO and Audio Outputs on the external equipment such as a VCR, DVD player/recorder and some video game devices.

- 2 If the external equipment only has a mono audio output, it should be connected to the left (white) Audio connector.

PC Connections

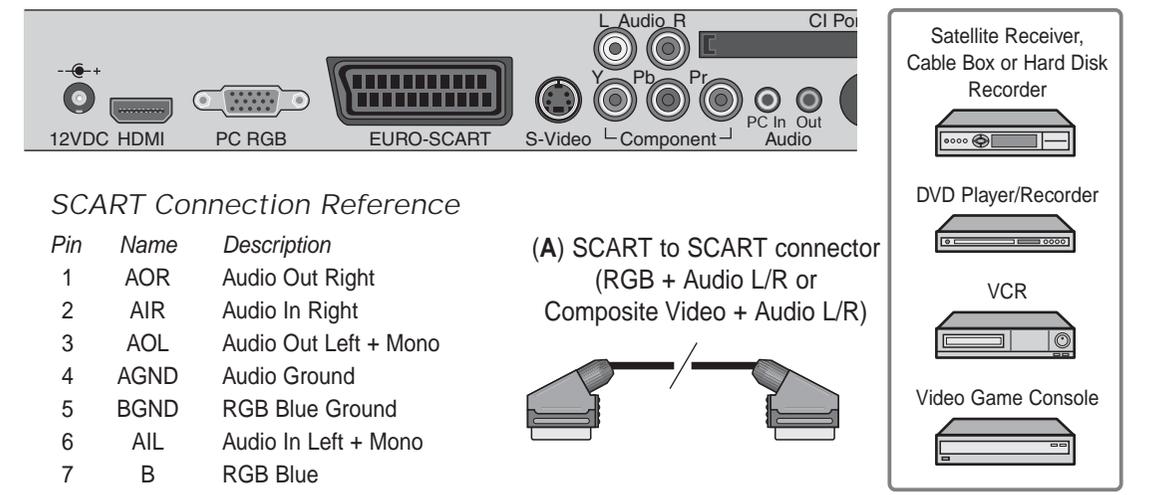
To use HDMI, connect the HDMI connector of the Mirage to the HDMI connector on the PC using a HDMI cable.

To use PC RGB, connect the PC RGB connector of the Mirage to the PC's RGB connector and connect the PC Audio In connector on the Mirage to the PC's audio out connector.



The SCART Connector

Ensure that the Mirage does not get splashed whilst it is open.



SCART Connection Reference

Pin	Name	Description
1	AOR	Audio Out Right
2	AIR	Audio In Right
3	AOL	Audio Out Left + Mono
4	AGND	Audio Ground
5	BGND	RGB Blue Ground
6	AIL	Audio In Left + Mono
7	B	RGB Blue
8	SWTCH	Audio, RGB switch, 16:9
9	GGND	RGB Green Ground
10	CLKOUT	Clock Out
11	G	RGB Green
12	DATA	Data Out
13	RGND	RGB Red Ground
14	DATAGND	Data Ground
15	R	RGB Red
16	BLNK	Blanking Signal
17	VGND	Composite Video Ground
18	BLNKGND	Blanking Signal Ground
19	VOUT	Composite Video Out
20	VIN	Composite Video In
21	SHIELD	Chassis Ground, Cable Shield

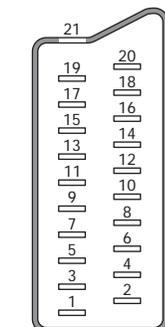
(A) SCART to SCART connector
(RGB + Audio L/R or
Composite Video + Audio L/R)



(B) SCART to RCA connectors
(Composite Video + Audio L/R)



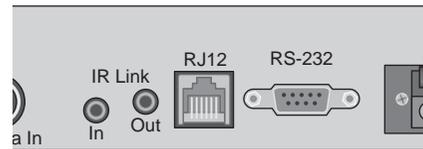
SCART Pinouts
(solder side view)



The EURO-SCART connector can be used with equipment which has RGB or composite video outputs and inputs. The EURO-SCART socket is fully wired as shown above.

IR Links, RJ12 and RS-232 Connectors

*The Mirage infrared remote control uses the NEC protocol.
For a full listing of the IR remote control codes see page 55.*



IR Link In

The IR Link In socket enables the Mirage to receive the IR code from an external IR receiver.



The plug for the IR In is a 'stereo' 3.5mm jack plug.

The RJ12 Connector

The RJ12 connector enables the Mirage to integrate with Interactive Hotel TV systems.

IR Link Out

Codes received by the IR receiver inside the Mirage can be relayed to an IR emitter via the IR Link Out socket.



The plug for the IR Out is a 'mono' 3.5mm jack plug.

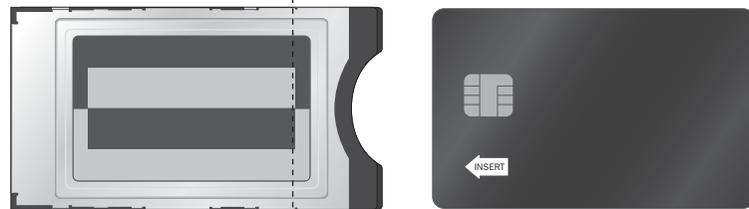
The RS-232 Port

The RS-232 control port enables the Mirage to be controlled from home automation control systems.

The Common Interface (CI) Port

If a Conditional Access Module (CAM) is being used to add channels to the Mirage the CAM should be inserted into the CI Port of Mirage **with the power disconnected**.

Take a note of the Smart Card's serial number and follow the CAM/Smart Card manufacturer's instructions to insert the Smart Card into the CAM and access the service.



The dotted line indicates the edge of the metalwork when a CAM is correctly inserted.

The Smart Card should be activated in accordance with its service provider's instructions before the screws are tightened in the fixing points and the screw caps are inserted.

See page 29 for additional CI/Smart Card information.

Sky™ Remote Control Link Setup

If the Mirage is used with a Sky™ box, the channel can be changed on the Sky™ box using the Sky™ remote control via the remote control sensor on the Mirage.

The connection to the antenna connectors on the Mirage and the Sky™ box must be made with both the Mirage and the Sky™ box disconnected from the mains supply. Use good quality coax cable either directly from the RF2 outlet of the Sky™ box or the outlet of a Remote-Link amp in an uninterrupted run.

Once the connections have been made, the Sky™ box must be setup to supply power from the RF2 socket as detailed below.

To set-up the Sky™ box to work with the Mirage the Sky™ remote control must be used via the main TV (TV 1).

- 1 On the Sky™ remote control press **SERVICES** to show the SERVICES menu.
- 2 Press the **4** button for the SYSTEM SETUP menu.
- 3 Press the **0** button, then the **1** button, then the **select** button, in sequence, to display the INSTALLER SETUP menu.
- 4 Press the **4** button to select RF OUTLETS.
- 5 Press the **down** arrow to select RF Outlet Power Supply and press the **left** or **right** arrows to change the setting to ON.
- 6 Press the **down** arrow to select Save New Settings and press **select** to save the settings.
- 7 Press the **sky** button to return to the previously viewed channel.



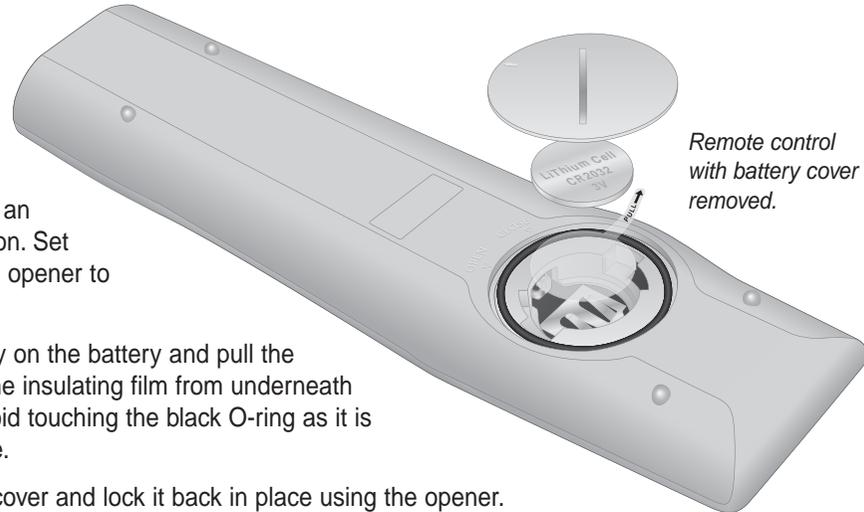
The Waterproof Remote Control

Before the waterproof remote control can be used the insulating plastic film must be removed from beneath the battery.

Place the remote control face down on a horizontal flat surface and use the opener to release the battery cover by rotating it in an anti-clockwise direction. Set the battery cover and opener to one side.

Rest one finger lightly on the battery and pull the printed tag to ease the insulating film from underneath the battery. Try to avoid touching the black O-ring as it is coated in light grease.

Replace the battery cover and lock it back in place using the opener.



Installing the Mirage – Setup and Tuning

Whenever the Mirage is reconnected to the mains supply the touch sensitive controls need time to adjust their sensitivity to match their environment – they should not be touched for 30 seconds.

When the connections have been made as shown on pages 9 to 15 it is time to close the Mirage and secure the mirror frame.

It may be necessary to adjust the position of the cables in order to close the mirror frame easily.

Apply light pressure to the left hand side of the mirror and insert one of the screws through a fixing point and into the wall frame. To ease hole alignment it may be necessary to remove the black caps from the fixing points and loosen the screws. There is no need to fully tighten the screw at this stage.

Switch the mains supply on and the Mirage should show a red indicator light showing that it is in standby mode. The touch sensitive controls need time to adjust their sensitivity to match their environment – they should not be touched for 30 seconds.

Initial Tuning

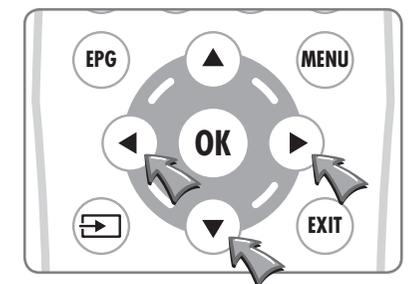
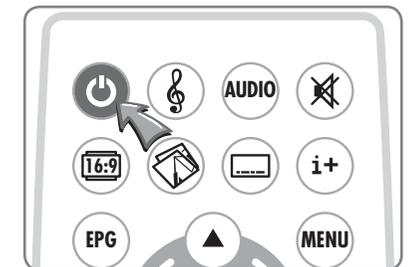
Press the **POWER** (⏻) button on the remote control to switch the Mirage on from standby. After a few seconds the **NEW INSTALLATION** menu will be displayed.

The on-screen menus can be in any of the following nine languages: English, Español, Français, Italiano, Nederlands, Polski, Português, Русский, and Deutsch.

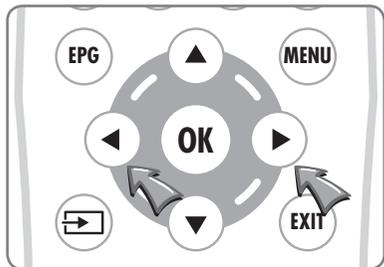


- 1 Press the ◀▶ buttons to select the required menu language.
- 2 Press the ▼ button once to select **Auto Tuning** and press the ▶ button to enter the Country selection window.

☞ If a Sky™ box is being used as a source it should be switched on before tuning the Mirage. This will allow the Mirage to tune to the Sky™ box correctly.



Installing the Mirage – Setup and Tuning

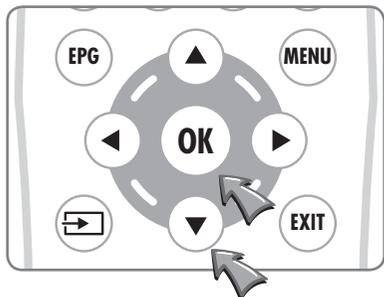


- 3 Select the required country with the ◀▶ buttons. Choose from: Australia, Austria, Belgium, Bulgaria, Croatia, Czech, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovenia, Spain, Sweden, Switzerland, UK.



- 4 Press the ▼ button to select **Start**.

- 5 Press the **OK** (OK) button to start the auto tuning.



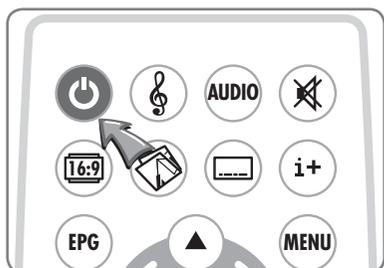
The Channel Tuning dialogue will be displayed to show the progress of the tuning.

When tuning is complete the Channel Tuning dialogue will be cleared and the first available channel will be selected.

If additional sources are being used with the Mirage their operation should now be checked (see input selection on page 23).

If a CAM is installed make sure it is activated and fully functional as per its service provider's instructions.

Once the Mirage is tuned and external inputs are working correctly, press the **POWER** (⏻) button on the remote control to put the Mirage into standby.



Installing the Mirage – Securing

Securing the Mirage

Apply light pressure to the left hand side of the mirror and insert the screws into the fixing points. Securely tighten the screws by hand.

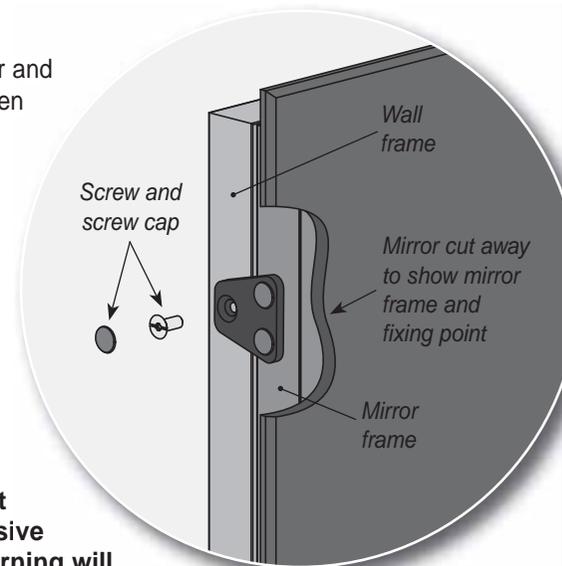
To ease hole alignment it may be necessary to remove the black caps from the fixing points and loosen the screws. This will allow movement of the catch plate to enable alignment of all screws holes.

Retighten the screws. Insert the screw caps into the heads of the screws and push them firmly into place.

Remove the protective cover from the Mirage glass.

Cleaning Instructions

To clean the mirror and frames, use only a soft damp cloth. Under no circumstances are abrasive cleaners to be used, failure to observe this warning will invalidate the guarantee.



The Touch Controls

Please note – Do not use the touch controls until the power has been on for 30 seconds – the controls need time to adjust their sensitivity to match their environment.

The touch controls on the mirror have the following functions:



Power On/Off – Turns the Mirage on from, or off to, standby.



VOL (Volume Down/Up) – Adjust the volume.



Input Source – Displays the Input Source menu and allows source selection: DTV, ATV, SCART, COMPONENT, PC-RGB, HDMI, COMPOSITE, S-Video.

Each touch steps the menu to the next input. The highlighted input will be selected and the menu cleared when the control is not touched for a couple of seconds.



PR (Programme Down/Up) – Selects previous or next programme.

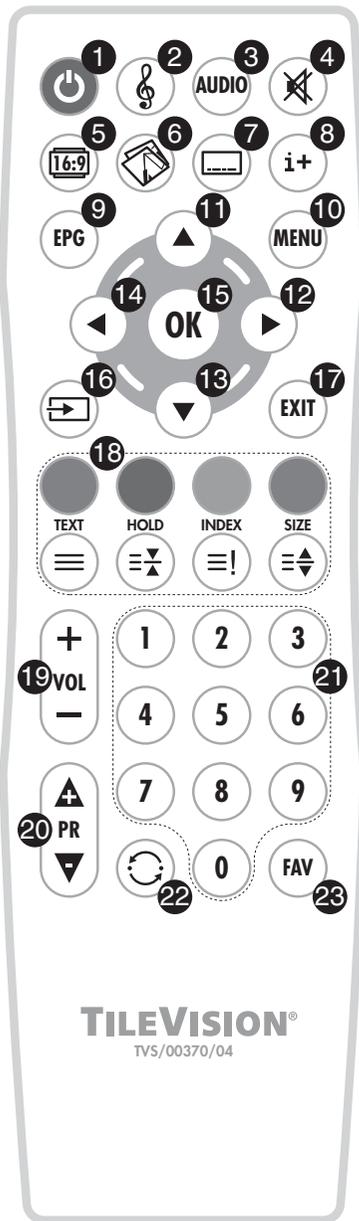


LED Lights On/Off – turns the built-in LED lights on and off – not available on the remote controls.

The touch controls do not work if more than one symbol is touched at once.

The Waterproof Remote Control Functions

Where buttons have different functions in DTV mode than they have in ATV mode, (D) denotes DTV mode functions and (A) denotes ATV functions.



Make sure there are no objects between the remote control and the Mirage.

Do not place the remote control near a heater.

A strong blow to the remote control may cause it not to operate.

- 1 **Power On/Off button** – Turns the Mirage on from, or off to, standby – *page 22*
- 2 **Sound Mode button** – Switches between sound modes: Standard, Personal, Sports, Movie, Music – *page 40*
- 3 **AUDIO button** – (D) Selects language for dual language broadcasts – *page 42*
- 4 **Sound Mute button** – Turns the sound on or off – *page 40*
- 5 **Aspect Ratio button** – Switches between picture formats: Auto, 16:9, 4:3, Zoom1, Zoom2 – *page 38*
- 6 **Picture Mode button** – Switches between picture modes: Standard, Movie, Dynamic, Personal, Soft – *page 36*
- 7 **Subtitles button** – Switches subtitles on or off – *page 39*
- 8 **Information button** – (D) Displays channel and programme information – (A) Displays channel information only – *page 31*
- 9 **EPG button** (D) – Displays the Electronic Programme Guide – *page 32*
- 10 **MENU button** – Displays or closes the menus
- 11 **Up button** – Menu and EPG navigation
- 12 **Right button** – Menu and EPG navigation
- 13 **Down button** – Menu and EPG navigation
- 14 **Left button** – Menu and EPG navigation
- 15 **OK button** – Accepts menu selections or displays the programme list – *page 30*
- 16 **Input Source button** – Displays the Input Source menu and allows source selection: DTV, ATV, SCART, COMPONENT, PC-RGB, HDMI, COMPOSITE, S-Video – *page 23*
- 17 **EXIT button** – Closes all on-screen menus and lists
- 18 **Colour and Teletext buttons** – (D) DTV Text and text menu options – (A) Teletext and FastText functions – *see page 51 for Teletext functions*
- 19 **VOL (Volume Up/Down) buttons** – Adjust the volume
- 20 **PR (Programme Up/Down) buttons** – Selects next or previous programme
- 21 **Number buttons** – Input programme numbers – (D) DTVText menu options – (A) Teletext page number input
- 22 **Back button** – switches between last and current programmes
- 23 **FAV button** – Displays or closes the favourite programme list.

The Standard Remote Control Functions

Where buttons have different functions in DTV mode than they have in ATV mode, (D) denotes DTV mode functions and (A) denotes ATV functions.

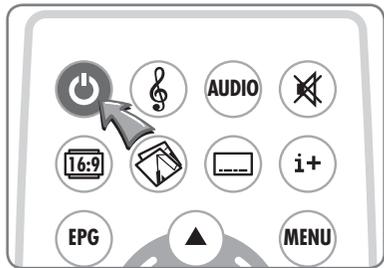
- 1 **POWER On/Off button** – Turns the Mirage on from, or off to, standby – *page 22*
- 2 **MUTE button** – Turns the sound on or off – *page 40*
- 3 **Number buttons** – Input programme numbers – (D) DTVText menu options – (A) Teletext page number input
- 4 **NICAM button** – (A) Stereo/Mono
- 5 **TV/RADIO button** – (D) switches between DTV and Radio
- 6 **MENU button** – Displays or closes the menus
- 7 **INPUT button** – Displays the Input Source menu and allows source selection: DTV, ATV, SCART, etc. – *page 23*
- 8 **Up button** – Menu and EPG navigation
- 9 **Right button** – Menu and EPG navigation
- 10 **Down button** – Menu and EPG navigation
- 11 **Left button** – Menu and EPG navigation
- 12 **ENTER button** – Accepts menu selections or displays the programme list – *page 30*
- 13 **RETURN button** – switches between last and current programmes
- 14 **EXIT button** – Closes all on-screen menus and lists
- 15 **VOL (Volume Up/Down) buttons** – Adjust the volume
- 16 **CH (Channel Up/Down) buttons** – Selects next or previous channel
- 17 **Sound Mode button** – Switches between sound modes: Standard, Personal, Sports, Movie, Music – *page 40*
- 18 **PIC button** – Switches between picture modes: Standard, Dynamic, Personal, Movie – *page 36*
- 19 **SLEEP button** – Displays/sets the sleep timer
- 20 **ASPECT button** – Switches between picture formats: Auto, 16:9, 4:3, Zoom1, Zoom2 – *page 38*
- 21 **AUTO button** – No function on Mirage TV19
- 22 **SRS button** – No function on Mirage TV19
- 23 **TEXT button** – switches DTV Text or Teletext on or off
- 24 **INFO button** – (D) Displays channel and programme information – (A) Displays channel information only – *page 31*
- 25 **FAV button** – Displays or closes the favourite programme list
- 26 **EPG button** – (D) Displays the Electronic Programme Guide – *page 32*
- 27 **Colour and Teletext buttons** – (D) DTV Text and text menu options – (A) Teletext and FastText functions – *see page 51 for Teletext functions*
- 28 **AUDIO button** – (D) Selects language for dual language broadcasts – *page 42*
- 29 **SUBTITLE button** – Switches subtitles on or off – *page 39*.



The standard remote control is not waterproof and should not be splashed or immersed in water.

Switching the Mirage On/Off

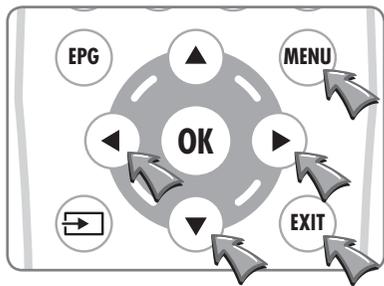
Please allow a minimum of five seconds after switching the Mirage off before switching it on again.



- 1 To switch the Mirage on, press the **POWER** (⏻) button.
The LED indicator will show green and Mirage will display a picture within ten seconds.
- 2 To switch the Mirage to standby, press the **POWER** (⏻) button again. The LED indicator will show red to indicate that the Mirage is in standby mode

Selecting the On-screen Language

English is the preset language for the Mirage. The language for on-screen menus can be selected during initial set-up or at any time in the future.



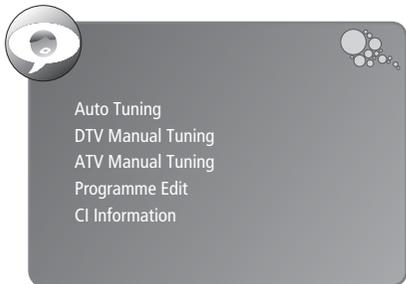
The on-screen menus can be in any of the following nine languages: English, Español, Françes, Italiano, Nederlands, Polski, Portugês, Русский, and Deutsch.

To change the language used follow the sequence below:

- 1 Press the **MENU** (MENU) button to display the **Channel** menu.
- 2 Press the ◀ button twice to display the **SETUP** menu.
- 3 Press the ▼ button once to select **Language**.
- 4 Press the ◀▶ buttons to select the required language.
- 5 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save the language choice and close the **SETUP** menu.

All the on-screen displays will now be in the chosen language.

👉 The selected language applies to all modes.



Selecting a Source

If external sources have been connected to the Mirage they may be viewed by selecting the appropriate input.

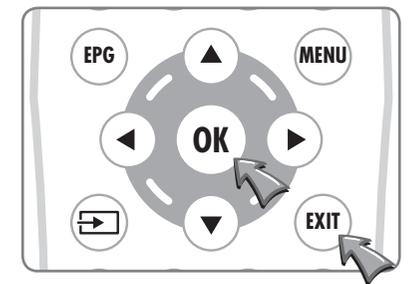
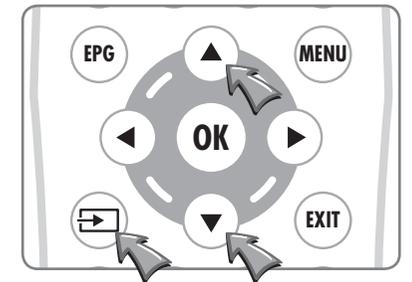
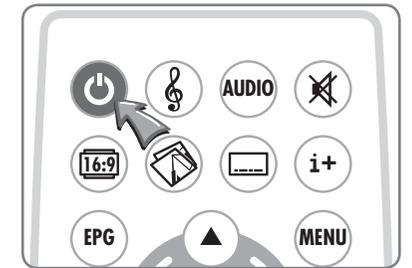
The Input Source list allows selection of the following: DTV (Digital Television), ATV (Analogue Television), SCART, COMPONENT (Y, Pb, Pr), PC-RGB, HDMI, COMPOSITE, and S-Video.

- 1 Press the **POWER** (⏻) button to switch the Mirage on.
- 2 Press the **Input** (⏻) button to display the **Input Source** list.
- 3 Press the **Input** (⏻) button or the ▲▼ buttons until the required source is selected.



- 4 Press the **OK** (OK) button to confirm selection of the chosen input and to clear the Input Source list from the screen.

Press the **EXIT** (EXIT) button to close the Input Source list without selecting an alternative source.



On-screen Menu Summary

The CHANNEL menu is the default menu if the menu button is pressed whilst watching DTV or ATV – the PICTURE menu is the default menu at all other times.





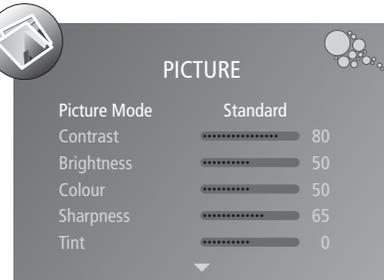
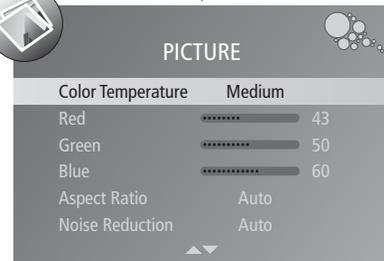
1 Press the **MENU** (MENU) button to display the Channel menu.

2 Press the ◀▶ buttons to select alternative menus.

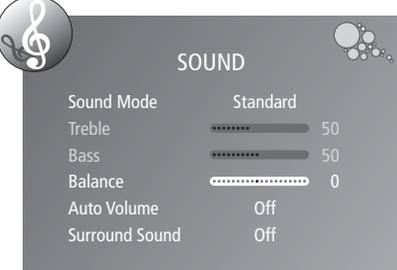
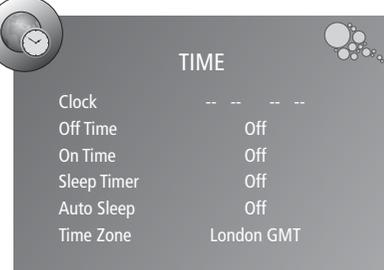
3 Press ▲▼ buttons to select menu items.

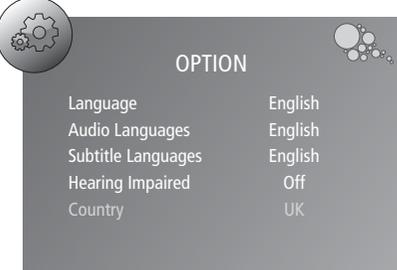
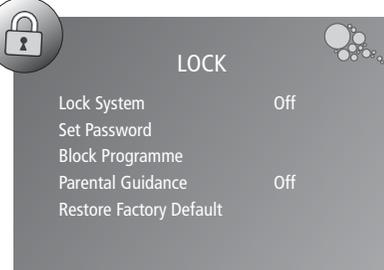
4 Press ◀▶ buttons to alter a select menu item.

5 Press **EXIT** (EXIT) to save settings and exit the menus.

To move between the two Picture menus press the ▲▼ buttons until the required menu is displayed.

To move between the two Picture menus press the ▲▼ buttons until the required menu is displayed.

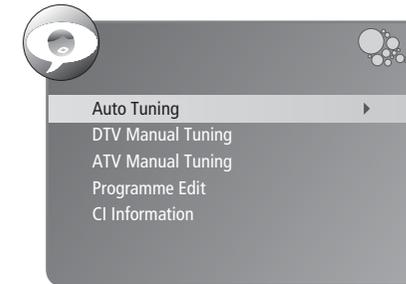
The EXIT, MENU, OK and Arrow prompts are common to all seven menus and have not been included on the following pages.

Auto Tuning

Note: It is recommended that Auto Tuning is used when installing the Mirage as all available digital and analogue programmes will be stored.

Auto Tuning

- 1 Press the **MENU** (MENU) button to display the **CHANNEL** menu.
- 2 Press the ▼ button to select the **Auto Tuning** and then press the ▶ or **OK** (OK) button.



- 3 Select the required country with the ◀▶ buttons. Choose from: Australia, Austria, Belgium, Bulgaria, Croatia, Czech, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovenia, Spain, Sweden, Switzerland, UK.



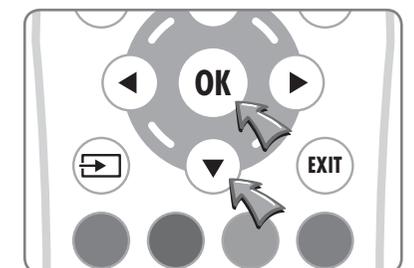
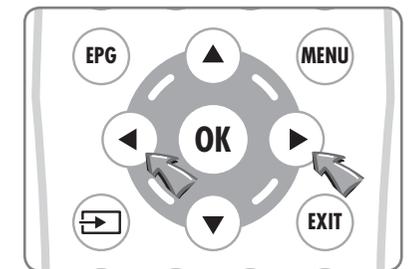
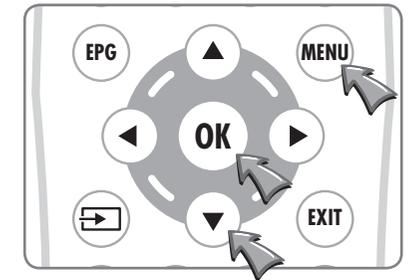
- 4 Press the ▼ button to select **Start**.
- 5 Press the **OK** (OK) button to start the auto tuning.



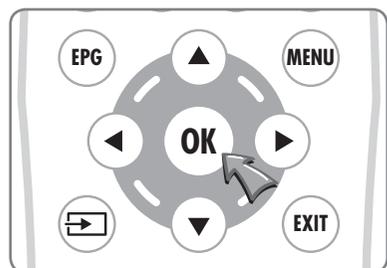
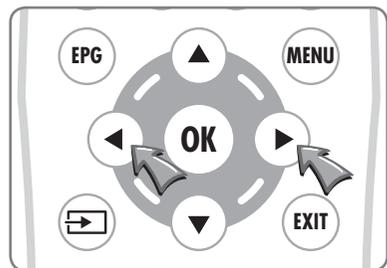
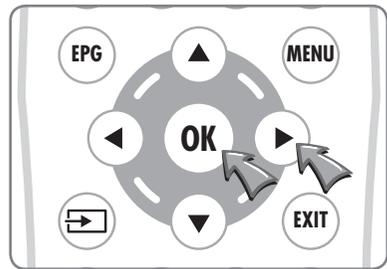
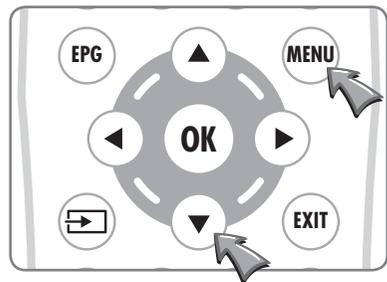
The Channel Tuning dialogue will be displayed to show the progress of the tuning.

When tuning is complete the Channel Tuning dialogue will be cleared and, the first available, TV channel will be selected.

To delete, skip, move or name the stored programmes see **Programme Edit**, on page 28.



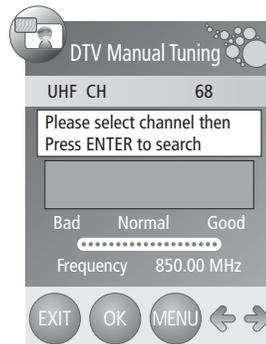
DTV Manual Tuning



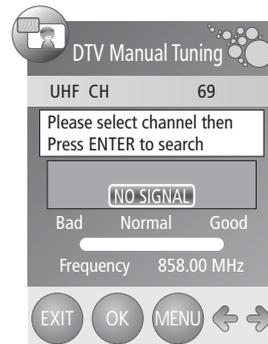
Digital Television Manual Tuning

- 1 Press the **MENU** (MENU) button to display the **CHANNEL** menu and press the **▼** button twice to select the **DTV Manual Tuning**.
- 2 Press the **▶** or **OK** (OK) button.
- 3 Select the required channel (UHF 21–69) with the **◀▶** buttons.

The DTV Manual Tuning menu will show if a signal is being received on the selected channel.

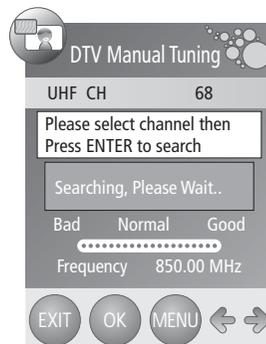


Good Signal on the selected channel – OK to tune.



No Signal on the selected channel – Do not tune.

- 4 If there is a signal on the required channel press the **OK** (OK) button to start tuning the stations on the selected channel.



The Mirage will confirm that it is searching for channels.

After a short time the dialogue will show the number of DTV and Radio programmes that have been tuned.

When the dialogue clears, the newly tuned station with the lowest number will be shown.

To tune additional programmes repeat steps 1 to 4.

ATV Manual Tuning

Analogue Television Manual Tuning

- 1 Press the **MENU** (MENU) button to display the **CHANNEL** menu.
- 2 Press the **▼** button three times to select the **ATV Manual Tuning** and then press the **▶** or **OK** (OK) button.
- 3 Use the **◀▶** buttons to select which programme to tune.
- 4 Press the **▼** button to select **System**.
- 5 Select a **System** with the **◀▶** buttons:
 - BG:** Western Europe/Asia/Middle East/Africa/Australia
 - I:** UK/Hong Kong/South Africa
 - DK:** Russia/China/Eastern Europe
 - L:** France.



The ATV Manual Tuning dialogue.



Search in progress.

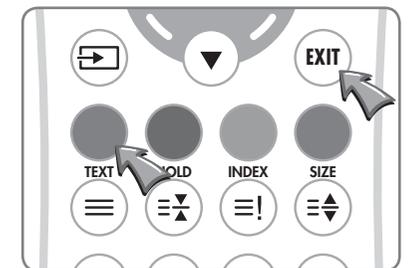
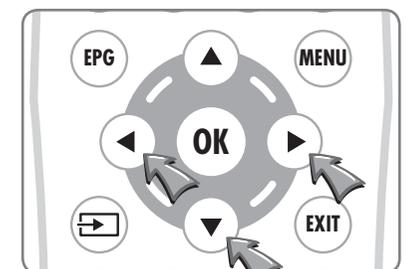
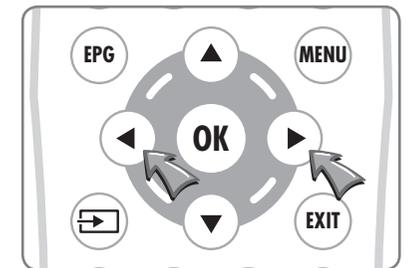
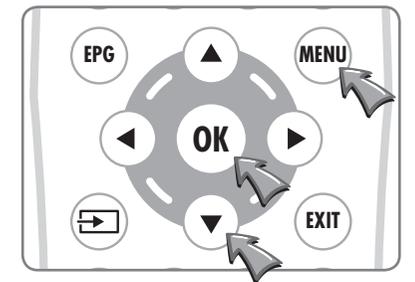
- 6 Press the **▼** button twice to select **Search** and then press the **◀** or **▶** button to choose the search direction.

The search will stop when the next available station has been tuned. To tune an alternative station press the **◀** or **▶** button to continue searching.

If necessary select **Fine-Tune** and adjust the tuning with the **◀▶** buttons to improve the picture or sound.

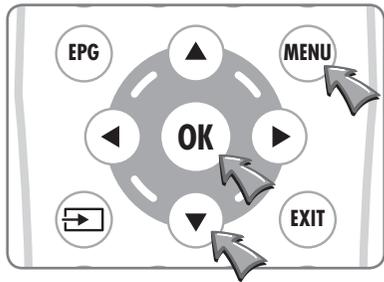
- 7 Press the **Red** button to save the settings and press the **EXIT** (EXIT) button to close the Manual Tuning window.

If **Skip** is selected for a programme it is skipped past with the **PR+** (▲) or **RP-** (▼) buttons. A skipped programme is included in the Channel List and can be selected in the normal way or by entering the channel number directly.

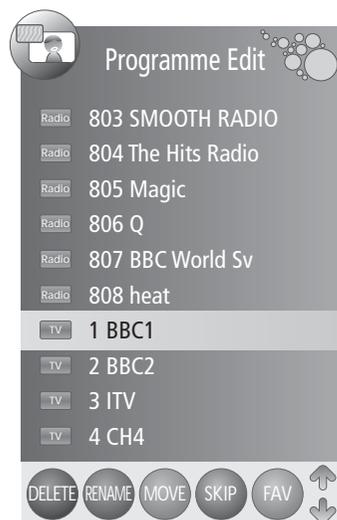


Programme Edit

Deleted programme can only be restored by retuning the Mirage using Auto or Manual Tuning. Setting SKIP for unwanted programmes is usually a better option.



The DTV Programme Edit list.



The ATV Programme Edit list.

Programme Edit allows programmes to be deleted, skipped or selected as favourites.

Deleted programmes are removed completely and are not available at all until the Mirage is retuned using Auto or Manual Tuning.

Skipped programmes are not available by pressing the **PR+** (▲) or the **PR-** (▼) buttons but they can be selected from the EPG, the channel list or by entering a channel number directly.

Favourite programmes are included in the Favourite List which can be displayed by pressing the **FAV** (FAV) button.

Programme Edit in DTV Mode

- 1 Press the **MENU** (MENU) button to display the **CHANNEL** menu.
- 2 Press the ▼ button four times to select **Programme Edit** and then press the ► or **OK** (OK) button.
- 3 Select a programme with the ▲▼ buttons and press the **Red** button to delete the programme completely and make it unavailable until the Mirage is retuned.

Press the **Blue** button to select to skip past the programme when using the **PR+** (▲) or **PR-** (▼) buttons to change channel.

Press the **FAV** (FAV) button to include the programme in the favourites list or to remove a programme from the favourites list.

- 4 Press the **EXIT** (EXIT) button to close the Programme Edit dialogue and save settings.

Programme Edit in ATV Mode

- 1 Press the **MENU** (MENU) button to display the **CHANNEL** menu.
- 2 Press the ▼ button four times to select **Programme Edit** and then press the ► or **OK** (OK) button.
- 3 Select a programme with the ▲▼ buttons and press the **Red** button to delete the programme completely and make it unavailable until the Mirage is retuned.

Press the **Blue** button to select to skip past the programme when changing channel with the **PR+** (▲) or **PR-** (▼) buttons.

Press the **Green** button to edit a programme's name using the ◀▶ buttons to select the character to edit and the ▲▼ buttons to change the character displayed.

Press the **Yellow** button to allow a programme to be moved to a different position in the channel list by using the ▲▼ buttons.

- 4 Press the **EXIT** (EXIT) button to close the Programme Edit dialogue and save settings.

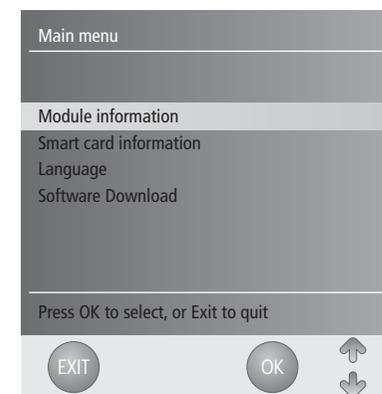
CI Information

If a Conditional Access Module (CAM) is installed CI information is available via the CHANNEL menu as follows:

- 1 Press the **MENU** (MENU) button to display the **CHANNEL** menu.
- 2 Press the ▼ button five times to select **CI Information** and then press the ► or **OK** (OK) button.

If no CAM is installed in the Mirage, the message 'Please insert CI Module' will be displayed.

With a CAM installed the message 'Loading CI MMI...' will be displayed whilst the Mirage accesses the information from the CAM and viewing card.



When the Main menu is displayed, press the ▲▼ buttons to select a menu option and press the **OK** (OK) button to view the available information.

Press the **EXIT** (EXIT) or **OK** (OK) button to close the menu.

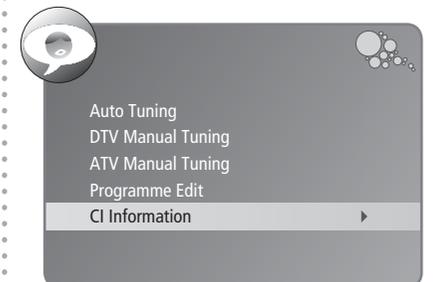
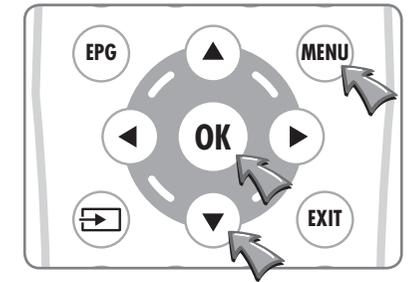
Module information typically includes: Serial number (the 14 digit number on the rear of the CAM), SAP number, Manufacturer, SW version, FW version, Mediaguard version and Download ID.

Smart card information typically includes: Serial number, Account date and Admin date.

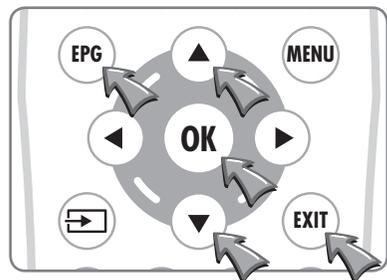
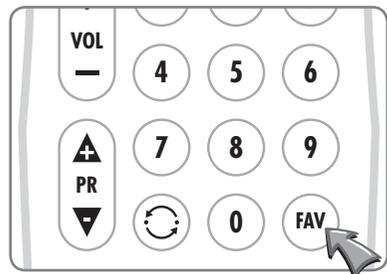
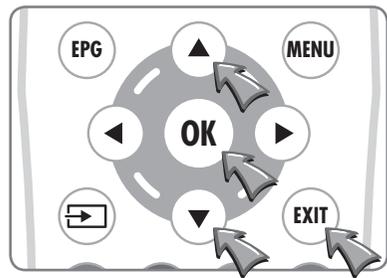
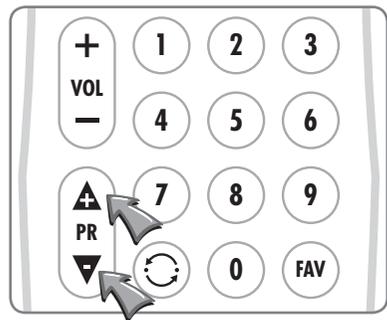
The **Language** option allows a language to be chosen from those available for the purchased subscription services.

Software Download allows update of the software and/or firmware in the CAM.

After using any of the above options press the **EXIT** (EXIT) or **MENU** (MENU) button to return to the Main menu (shown above) and press the **EXIT** (EXIT) or **MENU** (MENU) button to close the Main menu.



Changing Channels



Press the **BACK** (⏪) button to switch between the current and last programme that was viewed.

There are five ways to change to a new channel on the Mirage:

1. Enter the programme number directly by pressing the number keys. When choosing a programme from 1–9 there is no need to press the 0 key first.
2. Press the **PR +** (▲) or **PR -** (▼) buttons to switch from programme to programme in sequence.

3. Press the **OK** (OK) button to display the Channel List. When the list is displayed use the ▲▼ buttons to select a programme and press the **OK** (OK) button to switch to the selected programme.

The **PR +** (▲) or **PR -** (▼) buttons can be used to move up or down one page at a time.

The Channel List will continue to be displayed for a few seconds or until the **EXIT** (EXIT) button is pressed.

4. Press the **FAV** (FAV) button to display the Favourite List. When the list is displayed use the ▲▼ buttons to select a programme and press the **OK** (OK) button to switch to the selected programme. To edit the Favourite Programme list see page 28.

The Favourite List will continue to be displayed for a few seconds or until the **EXIT** (EXIT) button is pressed.

5. When watching DTV press the **EPG** (EPG) button to display the Electronic Programme Guide.

PROGRAMME GUIDE		DTV 2 BBC TWO	
21 Aug 2008 10:33		10:00 - 11:00 Cash in the Attic	
		21 Aug	
DTV	10:30	11:30	
1 BBC ONE	Olympics 2008	BBC News	Olympics 2008
2 BBC TWO	Cash in the Attic	Olympics 2008	Diagnosis Murder
3 ITV1	This Morning		60 Minute Makeover
4 Channel 4	T4: Bea.. T4: Vo..	News at Noon	A Place by the Sea
5 Five	Michaela's Zoo Babies	Five Ne..	House
6 ITV2	Airline	Coronation Street	Emmerdale
			Airline USA

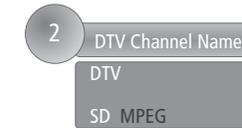
When the Programme Guide is displayed use the ▲▼ buttons to select a programme and press the **OK** (OK) button to select the chosen programme. Press the **Red** button for page down and the **Green** button for page up.

Press the **EPG** (EPG) or **EXIT** (EXIT) button to close the EPG.

Programme Information

Basic DTV Programme Information

The channel number, channel name and signal information are always displayed on screen for a few seconds whenever switching from one channel to another.



Basic ATV Programme Information

The channel number, channel name and signal information are always displayed on screen for a few seconds whenever switching from one channel to another.

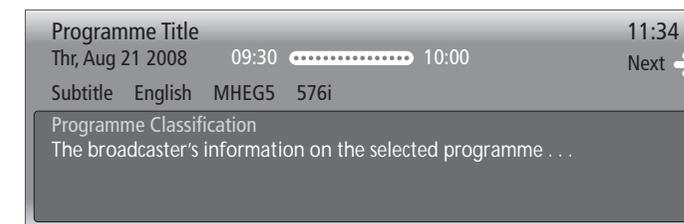


Because detailed information is not broadcast on analogue television, pressing the **INFO** (i+) button will display the same information as is shown when changing channel.

Detailed DTV Programme Information

More detailed information about the current programme can be seen at any time by pressing the **INFO** (i+) button.

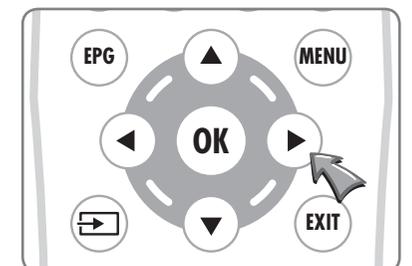
Press the **INFO** (i+) button again to clear the information banner from the screen.



The information contained in the banner is as follows:

- Line 1 the programme title and the current time.
- Line 2 the date and the start and end times of the programme.
- Line 3 the availability of subtitles, the audio language, the availability of MHEG digital text, and the video mode (576i denotes standard resolution).

To view the information on the next programme press the ► button.



The Electronic Programme Guide (EPG)

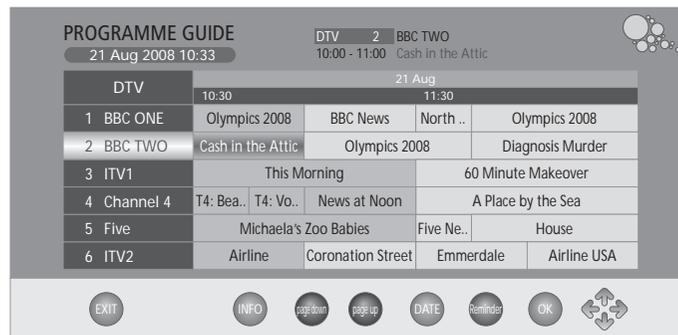
Viewing the EPG

The EPG information is provided by the broadcasters.

Programme entries may appear blank or out of date as a result of the information broadcast on a given channel. The display will dynamically update as soon as new information becomes available.

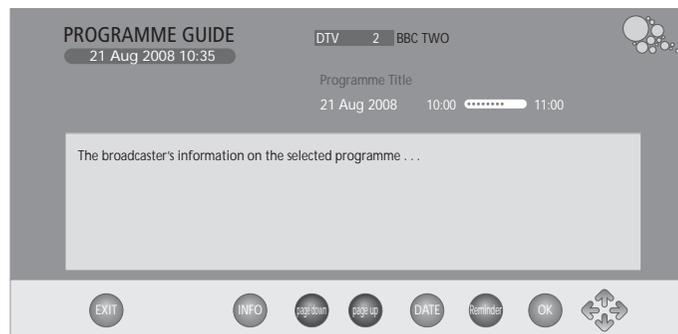
EPG information can be viewed at any time when watching digital programmes.

- 1 Press the **EPG** (EPG) button to display the Electronic Programme Guide.

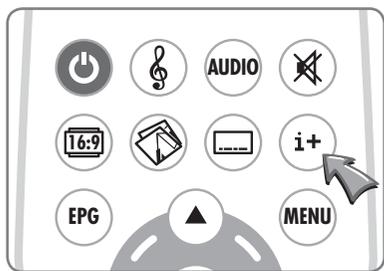
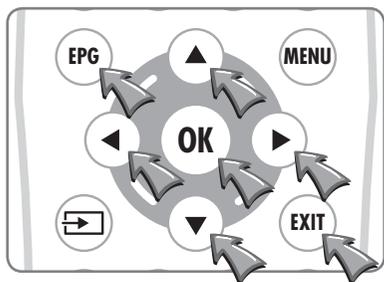
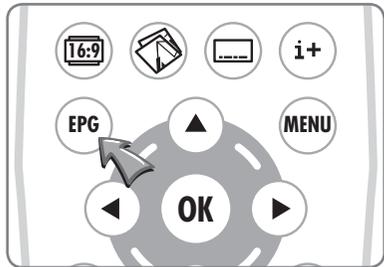


- 2 Use the **▲▼◀▶** buttons to move the highlight around the EPG and use the **Red** and **Green** buttons to move down or up one page at a time.
- 3 Press the **OK** (OK) button to select the currently highlighted channel.
- 4 Press the **EPG** (EPG) or **EXIT** (EXIT) button to close the EPG.

Detailed programme information is available without closing the EPG by pressing the **INFO** (i+) button.



To return to the EPG press the **INFO** (i+) button again.

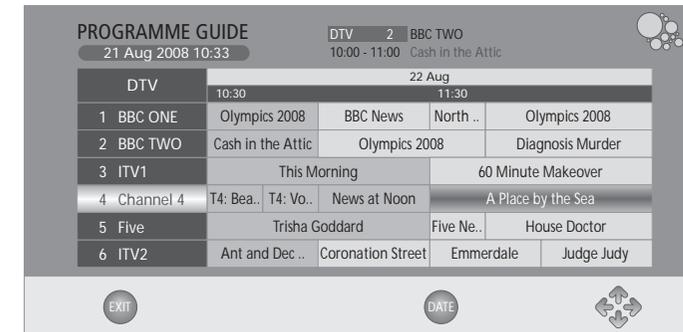


EPG Date and Programme Reminders

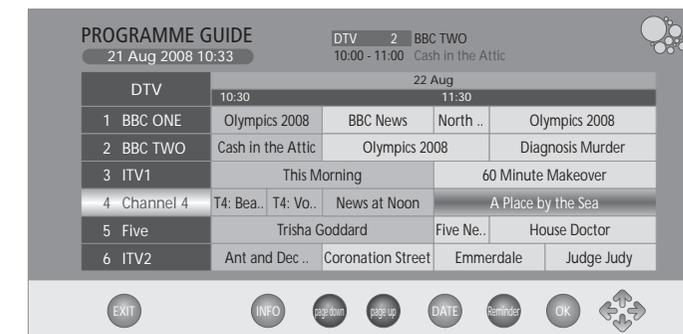
The EPG can show programmes up to seven days ahead and reminders can be saved to make the Mirage switch channel so that a chosen programme can be viewed.

Date, Reminder and Schedule options are available by pressing the Yellow, Blue and Green coloured buttons.

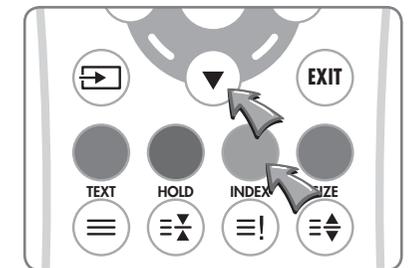
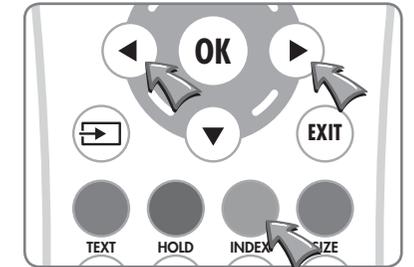
- 1 Press the **Yellow** button to select and highlight the Date cell on the EPG.
- 2 Press the **◀▶** buttons to choose a date up to seven days ahead.



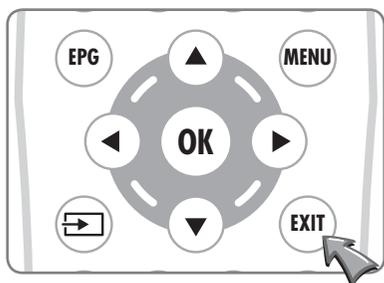
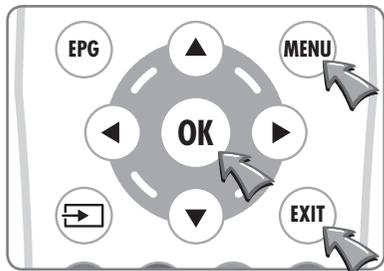
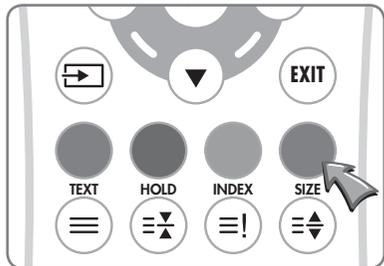
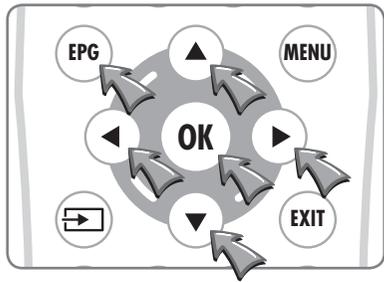
- 3 Once the required date is displayed press the **Yellow** or **▼** button to exit the Date cell.



The EPG now shows two dates, today's date and time is shown above the channel list, with the date of the listed programmes shown in the Date cell.



Setting Programme Reminders



Programme reminders make the Mirage switch to a chosen channel at a preset time. Reminders can be saved for any programme which has not started. They can be set to work once, repeat every day, or repeat every week.

To set a reminder:

- 1 Open the EPG and highlight a programme of interest which has not started.
- 2 Press the **Blue** button to open the **Reminder** dialogue.



- 3 To cancel setting the reminder and return to the EPG press the **MENU** (MENU) button, or to cancel setting the reminder and return to the television programme press the **EXIT** (EXIT) button.

If the reminder is to repeat, either daily or weekly proceed to step 5 on the next page.

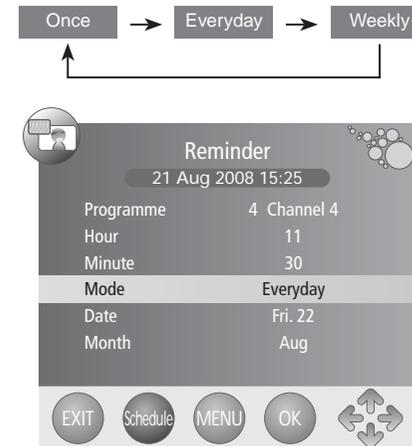
If the reminder is to be set for a single event press the **OK** (OK) button and the Schedule List will be displayed with the new reminder added to the list.



- 4 Press the **EXIT** (EXIT) button to close the Schedule List and return to the television programme.

Setting Programme Reminders

- 5 To change the mode and make the reminder repeat, press the **▲▼** buttons until **Mode** is selected and press the **◀▶** buttons to select as below.



- 6 Press the **OK** (OK) button to save the reminder, press the **MENU** (MENU) button to cancel setting the reminder and return to the EPG, or press the **EXIT** (EXIT) button to cancel setting the reminder and return to the television programme.

To view the Schedule List without saving the current reminder press the **Green** button.

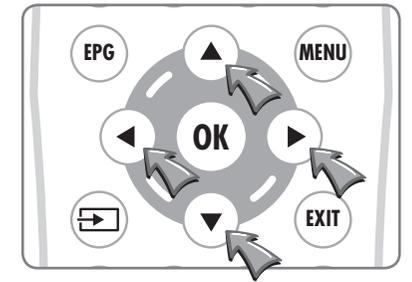
The Schedule List

The Schedule List can be displayed for checking or editing from the Reminder dialogue by pressing the **Green** button.

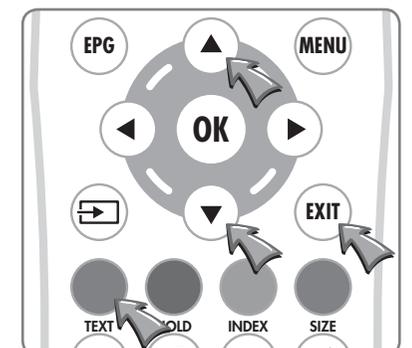
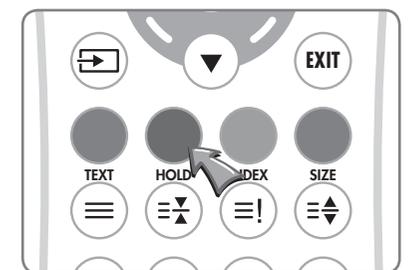
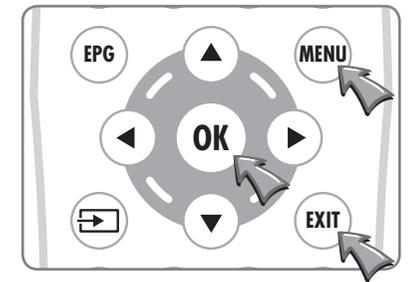


To delete a programme from the Schedule List:

- 1 Select the programme with the **▲▼** buttons.
- 2 Press the **Red** button to delete the programme.
- 3 Press the **EXIT** (EXIT) button to close the Schedule List.

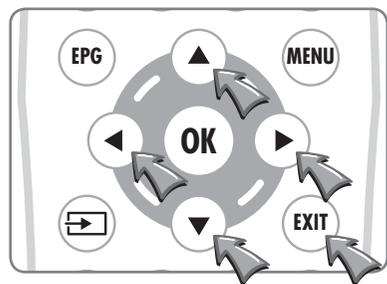
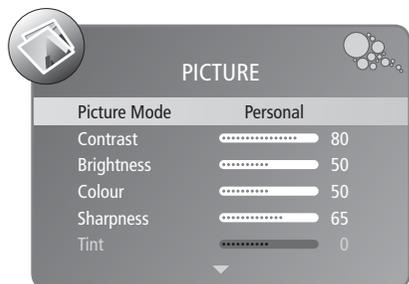
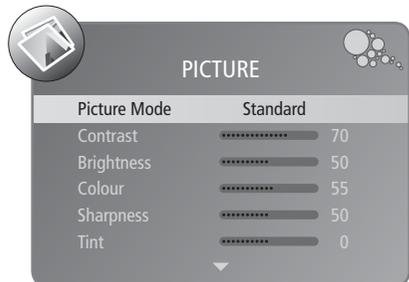
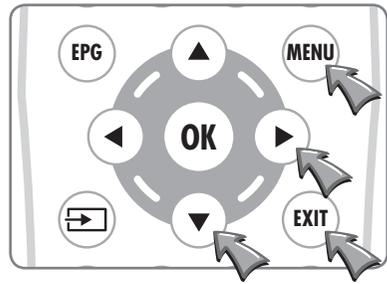


Any data in the reminder can be changed by selecting the appropriate line with the **▲▼** keys and altering the setting with the **◀▶** keys.



Picture Settings

The Picture Mode setting is independently adjustable for each input. For example, DTV can be set to Personal and the HDMI input can be set to Movie for DVD playback.



Setting the Picture Mode

Four preset picture modes can be selected or, using the Personal option, the Contrast, Brightness, Colour Intensity and Sharpness can be set to preferred levels.

- 1 Press the **MENU** (MENU) button.
- 2 Press the **▶** button to select the first **PICTURE** menu and then press the **▼** button once to select **Picture Mode**.
- 3 Press the **◀▶** buttons to select any of the different modes as shown below.



- 4 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save the settings and close the PICTURE menu.

Personal Picture Mode

Contrast, Brightness, Colour and Sharpness can only be adjusted in Personal Picture Mode. Adjustments can be made as follows:

- 1 Press the **MENU** (MENU) button.
- 2 Press the **▶** button to select the first **PICTURE** menu, press the **▼** button once to select **Picture Mode** and press the **◀** or **▶** button until **Personal** is selected.
- 3 Press the **▼▲** buttons to select Contrast, Brightness, Colour or Sharpness and press **◀** or **▶** to adjust the selected item.

Adjustments are made with the PICTURE menu hidden so that most of the picture is visible. Only the item being adjusted is shown on the screen.



- 4 When all the settings are as required press the **EXIT** (EXIT) button to save the settings and close the adjustment dialogue. Press the **OK** (OK) button to return to the PICTURE menu.

The Tint adjustment does not apply to Mirage.

- ☛ The Picture Mode can be changed whilst watching a programme. Press the Picture (PICTURE) button to sequence through the five modes.

Picture Settings

The Colour Temperature can be set independently for each input. For example, DTV can be set to Normal and the HDMI input can be set to Personal for DVD playback.

Setting the Colour Temperature

Three preset colour temperature settings can be selected or, using the Personal option, the mix of Red, Green and Blue can be set to preferred levels.

- 1 Press the **MENU** (MENU) button.
- 2 Press the **▶** button to select the first **PICTURE** menu and then press the **▼** button until the second **PICTURE** menu is displayed and **Colour Temperature** is selected.
- 3 Press the **◀▶** buttons to select any of the four settings as shown below.



- 4 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save the settings and close the PICTURE menu.

Personal Colour Temperature

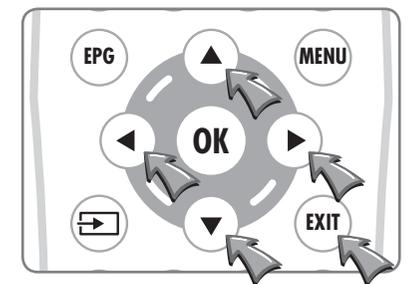
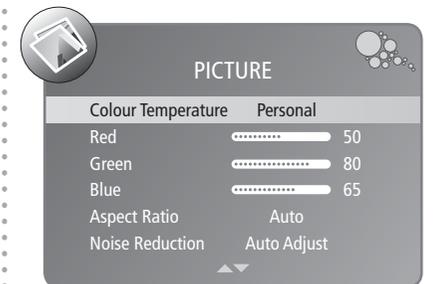
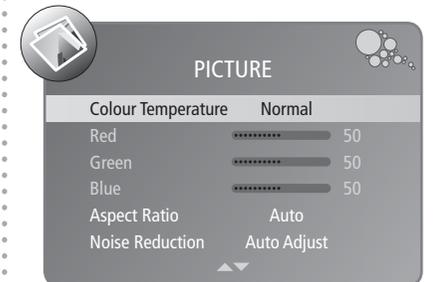
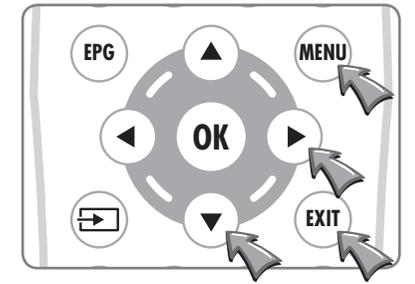
The levels of Red, Green and Blue can only be adjusted when using Personal Colour Temperature. Adjustments can be made as follows:

- 1 Press the **MENU** (MENU) button.
- 2 Press the **▶** button to select the first **PICTURE** menu and then press the **▼** button until the second **PICTURE** menu is displayed and **Colour Temperature** is selected.
- 3 Press the **◀** or **▶** button until **Personal** is selected.
- 4 Press the **▼▲** buttons to select Red, Green, or Blue and press **◀** or **▶** to adjust the selected item.

Adjustments are made with the PICTURE menu hidden so that most of the picture is visible. Only the item being adjusted is shown on the screen.

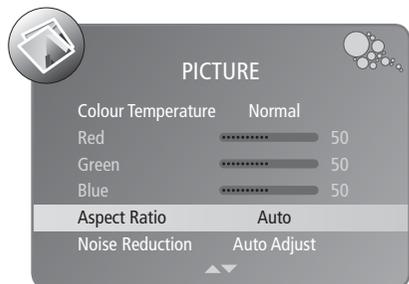
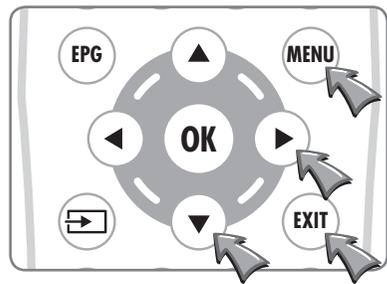


- 5 When all the settings are as required press the **EXIT** (EXIT) button to save the settings and close the adjustment dialogue. Press the **OK** (OK) button to return to the second PICTURE menu.



Picture Settings

The Aspect Ratio can be independently set for each input. For example, DTV can be set to Auto and the HDMI input can be set to Zoom1 for DVD playback.



Setting the Aspect Ratio

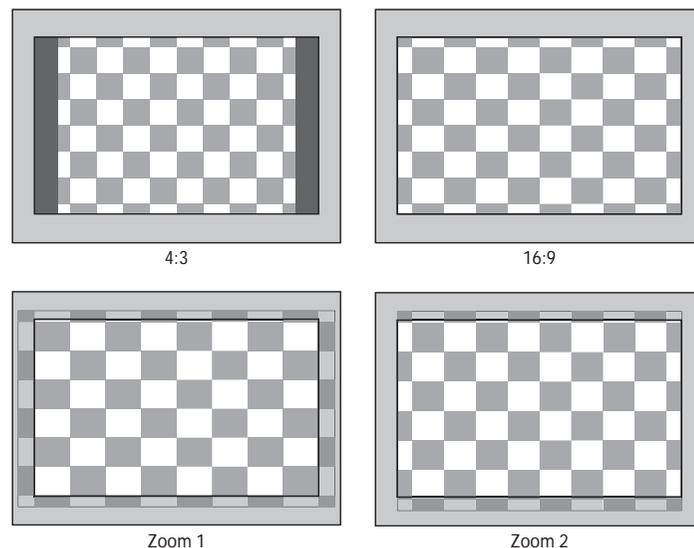
If the Aspect Ratio is set to Auto, the Mirage will alter the picture to best suit the programme being received and there will be little need to change the setting manually.

- 1 Press the **MENU** (MENU) button.
- 2 Press the **▶** button to select the first **PICTURE** menu and then press the **▼** button until the second **PICTURE** menu is displayed and **Aspect Ratio** is selected.
- 3 Press the **◀▶** buttons to select any of the different settings as shown below.



- 4 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save the settings and close the PICTURE menu.

How aspect ratio settings alter the picture



- ☛ The aspect ratio can be changed whilst watching a programme. Press the **Aspect Ratio** (ASR) button to sequence through the five settings.

Picture Settings

Noise Reduction can be independently set for each input except PC RGB where Noise Reduction setting is not required.

Noise Reduction

If noise reduction is needed, Auto Adjust is the recommended setting.

Noise reduction can be set as follows:

- 1 Press the **MENU** (MENU) button.
- 2 Press the **▶** button to select the first **PICTURE** menu and then press the **▼** button until the second **PICTURE** menu is displayed and **Noise Reduction** is selected.
- 3 Press the **◀▶** buttons to select any of the different settings as shown below.



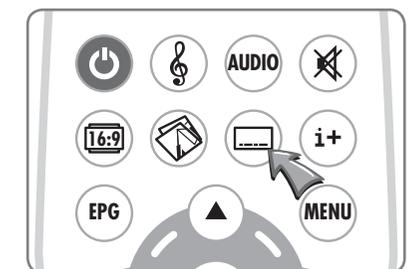
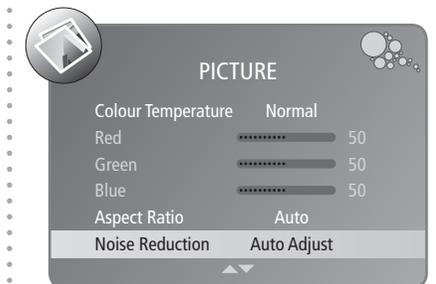
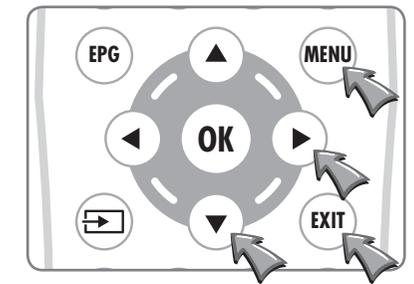
- 4 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save the settings and close the PICTURE menu.

Subtitles

Most DTV broadcasts include subtitles in at least one language. To select subtitles or turn subtitles off press the **SUBTITLES** (SUB) button and the **Subtitle Languages** list will be displayed.

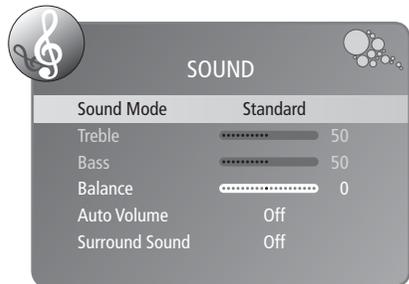
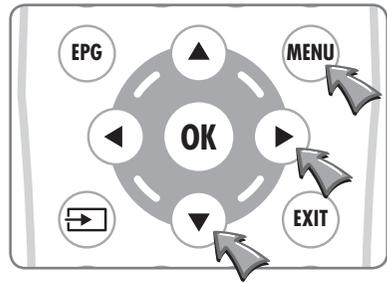


Press the **▲▼** buttons to select a language or turn Subtitles off and press the **EXIT** (EXIT) or **OK** (OK) button to save settings and close the list.



Sound Settings

Four preset sound modes can be selected or, using the Personal option, Treble and Bass can be set to preferred levels.



Setting the Sound Mode

- 1 Press the **MENU** (MENU) button.
- 2 Press the **▶** button twice to select the **SOUND** menu and then press the **▼** button once to select **Sound Mode**.
- 3 Press the **◀▶** buttons to select any of the different modes as shown below.


```

graph LR
    Standard --> Music
    Music --> Movie
    Movie --> Sports
    Sports --> Personal
            
```
- 4 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save settings and close the SOUND menu.

Personal Sound Mode

- 1 Press the **MENU** (MENU) button.
- 2 Press the **▶** button twice to select the **SOUND** menu and then press the **▼** button once to select **Sound Mode** and press the **▶** button until **Personal** is selected.
- 3 Press the **▼▲** buttons to select Treble or Bass and press **◀** or **▶** to adjust the selected item.
- 4 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save the settings and close the SOUND menu.

The Sound Mode can be changed without using the menu. Press the Sound (🎵) button to sequence through the five modes.

Sound Mute

The sound can be muted by pressing the **MUTE** (MUTE) button.

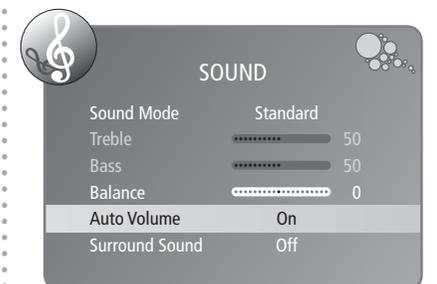
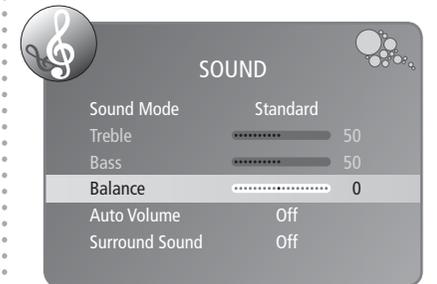
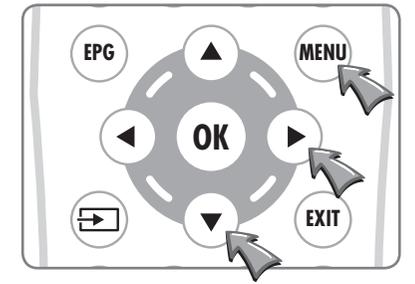
MUTE The mute flag will be displayed on the screen whenever the sound is muted.

To restore the sound to the previous level press the **MUTE** (MUTE) button or press either **VOLUME** button (+) or (-).

Sound Settings

Adjusting the Balance

- 1 Press the **MENU** (MENU) button.
- 2 Press the **▶** button twice to select the **SOUND** menu and then press the **▼** button until **Balance** is selected.
- 3 Press the **◀▶** buttons to adjust the Left/Right balance.
- 4 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save the setting and close the SOUND menu.



Auto Volume

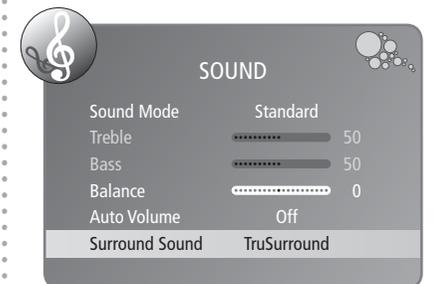
If there is a large difference between the volume of one programme and another, setting **Auto Volume** to on will reduce the disparity.

- 1 Press the **MENU** (MENU) button.
- 2 Press the **▶** button twice to select the **SOUND** menu and then press the **▼** button until **Auto Volume** is selected.
- 3 Press the **◀▶** buttons to switch between On and Off.
- 4 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save the setting and close the SOUND menu.

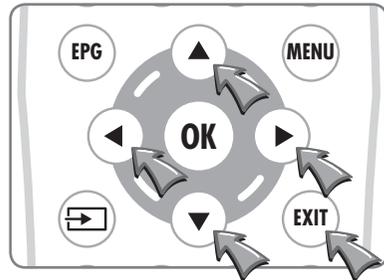
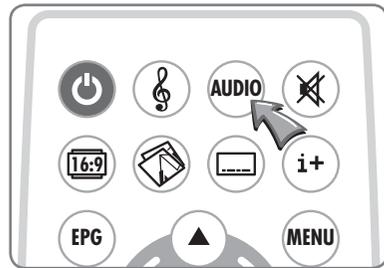
Surround Sound

Surround sound will enhance the audio and provide a more enjoyable and involving presentation.

- 1 Press the **MENU** (MENU) button.
- 2 Press the **▶** button twice to select the **SOUND** menu and then press the **▼** button until **Surround Sound** is selected.
- 3 Press the **◀▶** buttons to switch between TruSurround and Off.
- 4 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save the setting and close the SOUND menu.



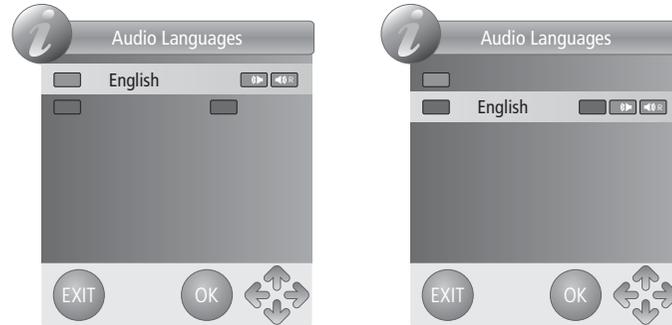
Sound Settings



Some DTV broadcasts can include multiple audio languages and/or narrative audio descriptions for the visually impaired (V.I.). The Audio Languages menu allows available languages to be selected and broadcasts with audio descriptions to be chosen if required.

In **DTV** mode the sound output for the left and right speakers can be selected as follows:

1 Press the **AUDIO** (AUDIO) button to open the **Audio Languages** list.



2 Press the **▼▲** buttons to select the required broadcast language and V.I. option.

3 Press the **◀▶** buttons to sequence through the three options; **L+R**, **L+L**, or **R+R**.

4 Press the **EXIT** (EXIT) button or the **OK** (OK) button to save settings and close the list.

Time Functions

Setting On and Off Times

The time menu allows the Mirage to be programmed to switch on or off at preset times and to switch off after a channel closes down.

Both off and on times have the following repeat options available:

Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun, Sun.

An off time can be set as follows:

1 Press the **MENU** (MENU) button.

2 Press the **◀** or **▶** button three times to display the **TIME** menu.

3 Press the **▼** button to select **Off Time** and press the **▶** button to open the settings window.

4 Press the **◀** or **▶** button to select the required Repeat setting.

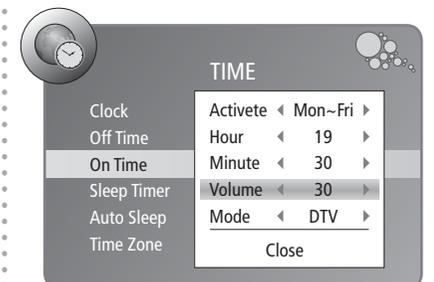
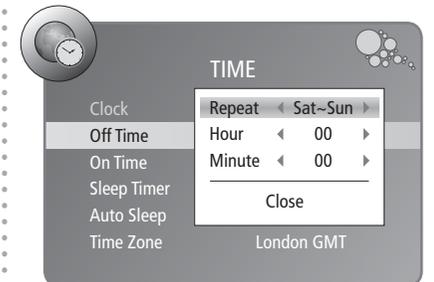
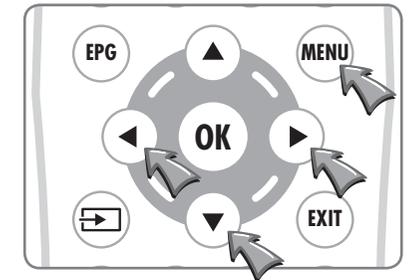
5 When the **Repeat** has been set press the **▼** button to move down one line and press the **◀▶** buttons to set the Hour. The **◀** or **▶** button can be held down to help set the times more quickly.

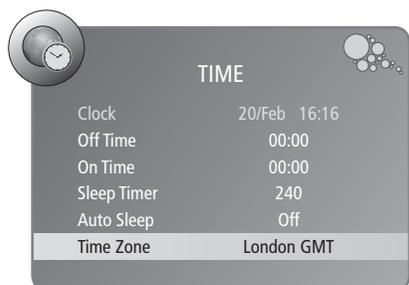
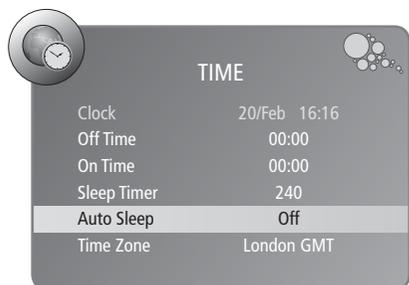
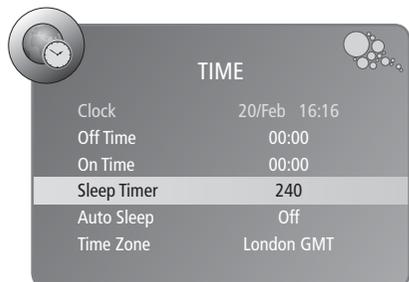
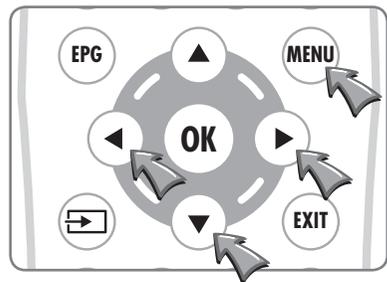
6 When the **Hour** has been set press the **▼** button to move down one line and press/hold the **◀▶** buttons to set the Minutes.

7 When the off time has been set press the **▼** button to move down to **Close** and press the **OK** (OK) button.

8 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save settings and close the **TIME** menu.

Setting an on time is the same as setting an off time, except that settings are included for Volume and Mode. The range for the initial volume is 0–100 and the options for Mode are: DTV, ATV and Radio.





The Sleep Timer

The Mirage incorporates a sleep timer which can be set to turn the unit off after a preset time. The available delay times are:

10, 20, 30, 60, 90, 120, 180, and 240 minutes.

The sleep timer can be set as follows:

- 1 Press the **MENU** (MENU) button.
- 2 Press the ◀ or ▶ button three times to display the **TIME** menu.
- 3 Press the ▼ button until **Sleep Timer** is selected and press the ◀▶ buttons to select the required delay.
- 4 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save settings and close the TIME menu.

An on-screen countdown will be displayed from 30 seconds before the Mirage switches off.

Auto Sleep

- 1 Press the **MENU** (MENU) button.
- 2 Press the ◀ or ▶ button three times to display the **TIME** menu.
- 3 Press the ▼ button until **Auto Sleep** is selected and press the ◀▶ buttons to select Off or On.
- 4 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save settings and close the TIME menu.

If auto sleep is set to on, the Mirage will automatically switch off after two minutes with no signal from the chosen source.

Setting the Time Zone

There is a choice of 32 cities in various time zones.

- 1 Press the **MENU** (MENU) button.
- 2 Press the ◀ or ▶ button three times to display the **TIME** menu.
- 3 Press the ▼ button until **Time Zone** is selected and press the ◀▶ buttons to select choose the appropriate setting.
- 4 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save settings and close the TIME menu.

On Screen Language

The on-screen menus and lists can be in any of the following nine languages: English, Español, Français, Italiano, Nederlands, Polski, Português, Русский, and Deutsch.

To change the language used follow the sequence below:

- 1 Press the **MENU** (MENU) button to display the **Channel** menu.
- 2 Press the ◀ button twice to display the **SETUP** menu.
- 3 Press the ▼ button once to select **Language**.
- 4 Press the ◀▶ buttons to select the required language.
- 5 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to close the **SETUP** menu and save the desired language.

All the on-screen displays will now be in the chosen language.

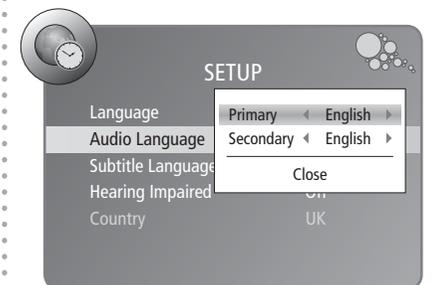
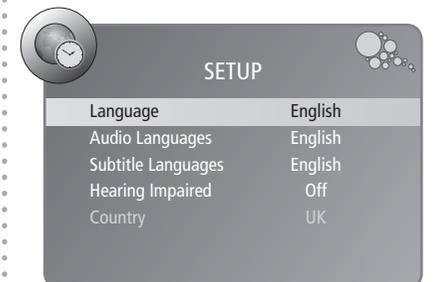
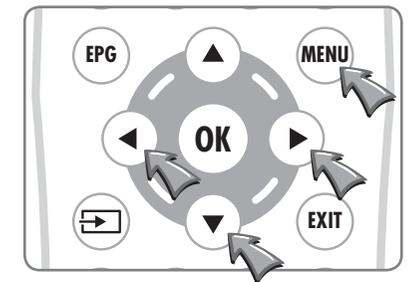
👉 The selected language applies to all modes.

Audio Language

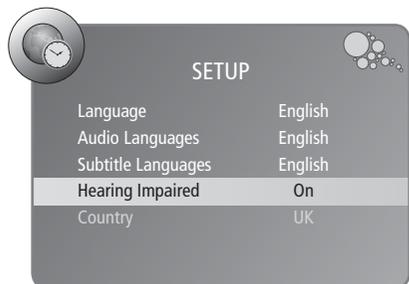
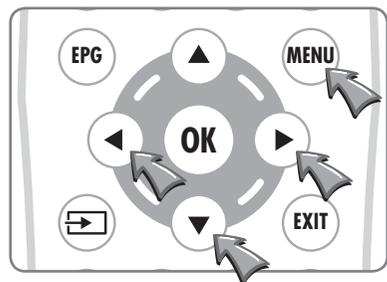
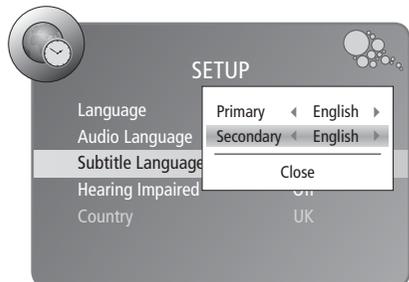
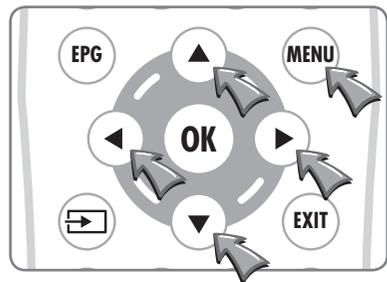
The primary or secondary language are used as appropriate if they are available when a multiple language source is broadcast.

Set the preferred audio languages as follows:

- 1 Press the **MENU** (MENU) button.
- 2 Press the ◀ button twice to display the **SETUP** menu.
- 3 Press the ▼ button until **Audio Language** is selected and press the ▶ or the **OK** (OK) button to open the settings window.
- 4 Press the ▼▲ buttons to select Primary or Secondary.
- 5 Press the ◀▶ buttons to choose the required language.
- 6 When finished, press the ▼▲ buttons to select Close and press the **OK** (OK) button to close the settings window
- 7 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save settings and close the SETUP menu.



The Setup Menu



Subtitle Language

The primary or secondary language are used as appropriate if they are available when multiple subtitle languages are broadcast.

Set the preferred subtitle languages as follows:

- 1 Press the **MENU** (MENU) button.
- 2 Press the ◀ button twice to display the **SETUP** menu.
- 3 Press the ▼ button until **Subtitle Language** is selected and press the ▶ or the **OK** (OK) button to open the settings window.
- 4 Press the ▼▲ buttons to select Primary or Secondary.
- 5 Press the ◀▶ buttons to choose the required language.
- 6 When finished, press the ▼▲ buttons to select Close and press the **OK** (OK) button to close the settings window
- 7 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save settings and close the SETUP menu.

Hearing Impaired

If a broadcast includes alternative audio for the hard of hearing it will be selected when Hearing Impaired is set to on.

The setting can be changed as follows:

- 1 Press the **MENU** (MENU) button.
- 2 Press the ◀ button twice to display the **SETUP** menu.
- 3 Press the ▼ button until **Hearing Impaired** is selected and press the ◀ or ▶ button to choose On or Off.
- 4 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save settings and close the SETUP menu.

The Lock Menu

The lock menu allows a password to be entered so that a number of key settings can be locked, selected programmes can be blocked and parental controls can be imposed.

Lock System

When lock system is on, Auto Tuning, DTV Manual Tuning, ATV Manual Tuning and Programme Edit can not be accessed from the CHANNEL menu without entering the password. All other menu options are not affected.

The Mirage default four digit password is 0000.

To turn the lock system on or off:

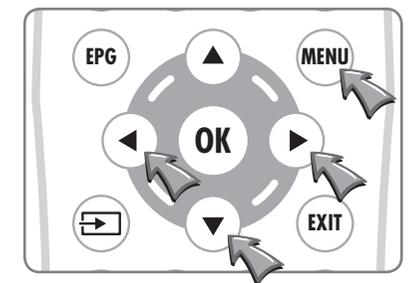
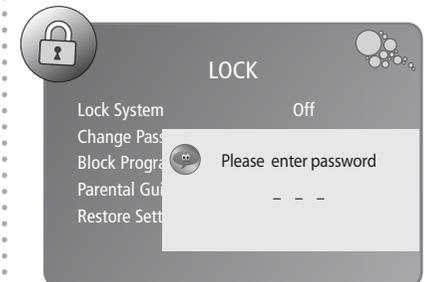
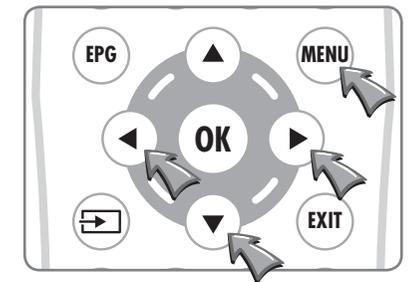
- 1 Press the **MENU** (MENU) button.
- 2 Press the ◀ button to display the **LOCK** menu.
- 3 Press the ▼ button and enter the password to access the **LOCK** menu.
- 4 Press the ◀▶ buttons to select on or off.
- 5 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save settings and close the LOCK menu.

Change Password

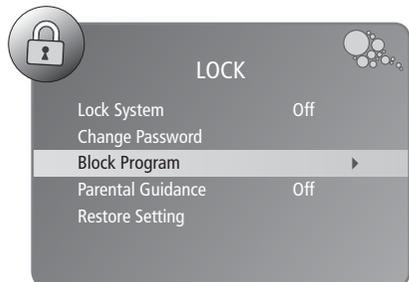
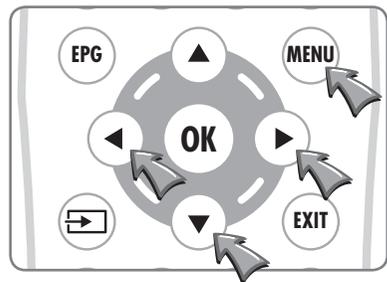
The password can be changed as follows:

- 1 Press the **MENU** (MENU) button.
- 2 Press the ◀ button to display the **LOCK** menu.
- 3 Press the ▼ button and enter the password to access the **LOCK** menu.
- 4 Press the ▼ button to select **Change Password**.
- 5 Press the ▶ button or press the **OK** (OK) button to open the password window.
- 6 Enter and then confirm the new password.
- 7 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to save the new password and close the LOCK menu.

☞ If the default password of 0000 is replaced by a user password and the password is forgotten there is no way to access any item on the LOCK menu. Please make sure that any password chosen is memorable.



The Lock Menu



Block Programme

Blocked programmes can only be viewed by entering the password. The programmes are selected in the normal way but it is necessary to enter the password before the programme is shown.

Programmes are blocked as follows:

- 1 Press the **MENU** (MENU) button.
- 2 Press the **◀** button to display the **LOCK** menu.
- 3 Press the **▼** button and enter the password to access the **LOCK** menu.
- 4 Press the **▼** button twice to select **Block Programme**.
- 5 Press the **▶** button or press the **OK** (OK) button to open the Block Programme list.



Press **▲▼** to select the channel to block and press the **Green** button to toggle the lock setting for the chosen channel.

- 6 Press the **EXIT** (EXIT) button to close the list or press the **MENU** (MENU) button to close the list and return to the LOCK menu.

The OK (OK) button will make the Mirage switch to the selected channel so it can be viewed when the list is closed.

If the selected channel is locked when the list is closed the password must be entered so that the programme can be viewed.

The Lock Menu

Parental Guidance

The parental guidance option allows any age from 4 to 18 to be select for all programmes. Parental guidance is set as follows:

- 1 Press the **MENU** (MENU) button.
- 2 Press the **◀** button to display the **LOCK** menu.
- 3 Press the **▼** button and enter the password to access the **LOCK** menu.
- 4 Press the **▼** button three times to select **Parental Guidance**.
- 5 Press the **◀▶** buttons to select an age from 4 to 18 or turn parental guidance off.
- 6 Press the **EXIT** (EXIT) button once or the **MENU** (MENU) button twice to confirm the settings and close the LOCK menu.

Restore Settings

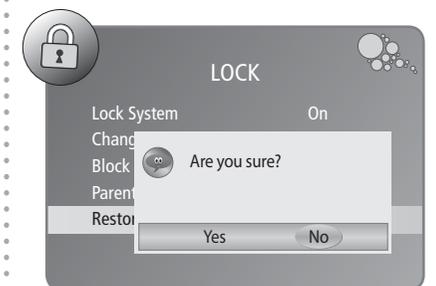
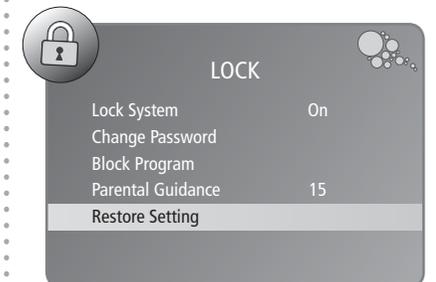
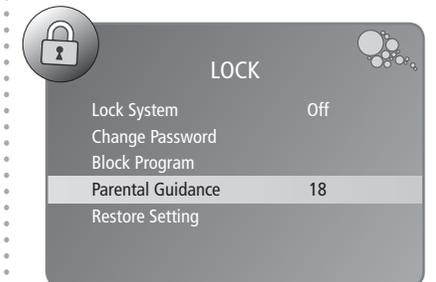
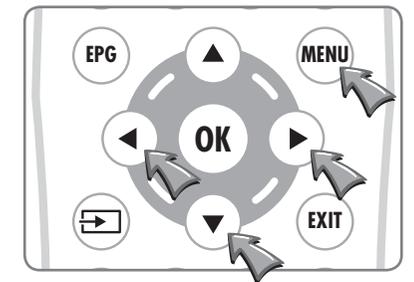
There is normally no need to restore factory settings. It can however, be useful to restore factory settings as an easy way of clearing all restrictions, a forgotten password, blocked and skipped channels, personal settings, etc.

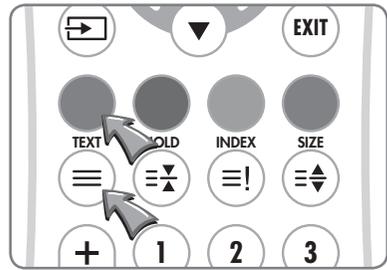
Restore settings should also be used in the unlikely event that the Mirage freezes.

The default factory settings can be restored as follows:

- 1 Press the **MENU** (MENU) button.
- 2 Press the **◀** button to display the **LOCK** menu.
- 3 Press the **▼** button and enter the password to access the **LOCK** menu.
- 4 Press the **▼** button until **Restore Settings** is selected.
- 5 Press the **◀** button to select Yes and press the **OK** (OK) button to restore factory settings.

After the factory settings have been restored the Mirage must be retuned (see page 25) and, if used, the preferred user password should be reentered (see page 47) as the password will have been reset to 0000.



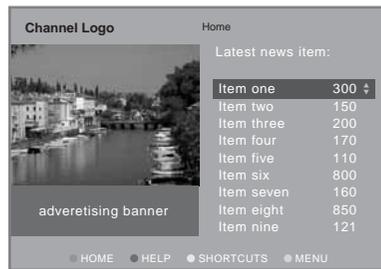


To access DTV Text press the **TEXT** (≡) or **Red** button depending on the programme's broadcaster. A small banner 'loading...' will be displayed on screen. After a few seconds the broadcaster's menu will appear, either overlaying part of the current programme:

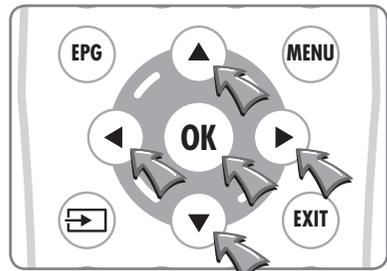


Typical overlay example

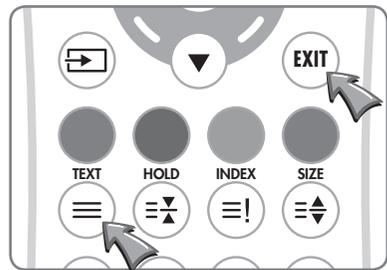
or with the current programme in a smaller window next to the text menus and instructions:



Typical inset example



Use the **▲▼** buttons (or in some cases the **◀▶** buttons) to navigate the menus and the **OK** (OK) button to select items. Use the **Red, Green, Yellow** and **Blue** buttons to access shortcuts, help and additional menus etc., as shown on screen.



To exit DTV Text press the **TEXT** (≡), the **EXIT** (EXIT) button or change channel.

All DTV Text navigation uses the **▲▼◀▶**, **OK**, **Colour** and **0-9** number buttons, all functions are available with the Mirage waterproof remote control.

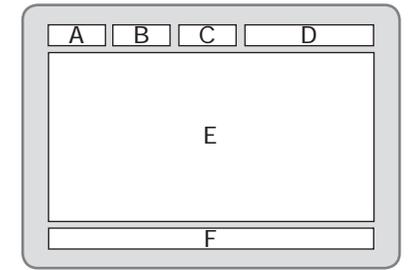
Some broadcasters show a red on-screen prompt when DTV Text is available.

To remove the prompt from the screen press the **Green** button.

DTV Text is not available immediately after changing channel as it takes a few seconds for the Mirage to receive the data from the broadcaster.

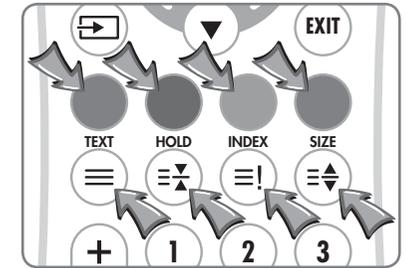
Functions of Teletext

- | | |
|-------------|--|
| <i>Part</i> | <i>Display Contents</i> |
| A | Selected page number. |
| B | Broadcast Station identity. |
| C | Current page number or searching status. |
| D | Date and time. |
| E | Text information. |
| F | FasText information.
Red, Green, Yellow, Blue |



Switching Teletext On

- 1 Press the **TEXT** (≡) button once to view the Teletext pages.
- 2 Use the **0-9** number buttons and the **Red, Green, Yellow** and **Blue** FastText buttons to navigate the text pages.
- 3 Press the **TEXT** (≡) button again to switch to mix mode with the text overlaying the TV picture. Press the **TEXT** (≡) button again to switch Teletext off and return to normal viewing.



The waterproof remote control includes the Teletext functions as show below:

<i>Icon</i>	<i>Name</i>	<i>Functions</i>
≡	TEXT	Press the button to turn Teletext on, enter Mix Mode and turn Teletext off.
≡	HOLD	Stops the automatic page change, which occurs if a Teletext page consists of two or more sub pages. The stop symbol is displayed in the top left hand corner of the screen. Press the button again to resume.
≡!	INDEX	Press to return to the index page.
≡	SIZE	Press button to enlarge top half of the page. Press again to enlarge the bottom half of the page. Press again to return to normal size text.

Troubleshooting

The red/green LED is not lit

(Press the POWER (⏻) button to check if the green LED lights)

- Make sure any isolation switch is set to on.
- Check that the LED on the AC/DC adaptor is lit.
- Push the mains lead in to AC/DC adaptor.
- Try the mains lead on another piece of equipment to prove the lead is OK.
- Connect another piece of equipment to the Mirage's mains socket to make sure the socket is working.
- Check the consumer unit (fuse box).

Remote control is not working

- If the IR LED on a remote control is viewed through a digital camera, the IR LED will be seen to light when any button on the remote control is pressed. If the IR LED does not light the battery/batteries should be replaced. If the IR LED is seen to light but the remote control only works within 500mm of the Mirage, the battery/batteries should be replaced. If the batteries are replaced and the IR LED still does not light the remote control is faulty or the battery/batteries have been incorrectly installed.

No sound from the Mirage

- Check the volume level and that the Mute function is off.
- Analogue TV – check the correct system is selected for your country. For example, in the UK the setting must be I. See pages 26 and 27 for more information.

Sound and picture out of sync

- This is usually a digital broadcast fault which clears when an alternative channel is selected and then the original channel selected again.

Poor DTV picture or picture breaking up 'blocking'

- Refer to a professional aerial installer. This can be due to the condition of the aerial, the location of the aerial, the cable quality/length, or other equipment attenuating the signal.
Note: Even though other TVs display a good picture in the same building it does not prove the quality of the signal reaching the Mirage. The only way is to try an alternative TV on the aerial to the Mirage or the Mirage in a known, good location.

A Sky™ box can not be controlled via the Mirage

- Refer to the installation instructions on page 15, check the LED on the Remote-Link is lit.
- If the LED on the Remote-Link is lit, check that the Sky remote control does control the Sky box directly.
- Check that the connections and set up of the Sky box, as shown on page 15, are correct. Note the output channel of the Sky™ box whilst on the RF OUTLETS page. Perform ATV Manual Tuning as shown on page 27 and tune to the output channel of the Sky™ box's RF2 outlet. Ensure that the Mirage is set to PAL I.

IR Links and RJ12 Connections

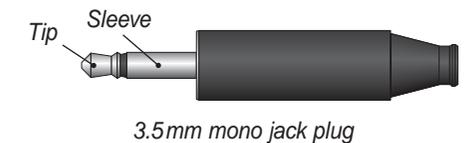
IR Link Out

The IR Link Out is a 3.5mm mono jack socket. The IR signal sensed by the Mirage is outputted from this socket to an IR emitter. This will enable the remote control of external equipment, such as a DVD player, from the Mirage.

IR Link Out Connections – IR Emitter

IR emitter LED positive terminal to the Tip.

IR emitter LED negative terminal to the Sleeve.



IR Link In

The IR Link In is a 3.5mm stereo jack socket. This socket allows an auxiliary IR sensor to be connected to the Mirage, which enables remote control of the Mirage from a different point other than the front of the Mirage.

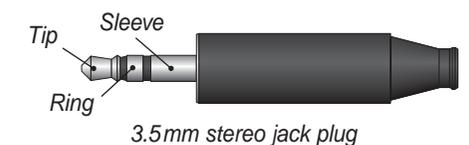
IR Link In Connections – IR Receiver

The Mirage will supply +5v DC to power the IR sensor.

IR sensor +5v DC terminal to the Tip.

IR sensor signal output terminal to the Ring.

IR sensor negative terminal to the Sleeve.

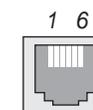


RJ12 Connector

This connector is for Hotel TV System Integration. The RJ12 allows command codes to pass to and from the Mirage. The RJ12 pin assignment is internally configurable, to allow the connection of various Hotel TV Systems.

RJ12 Connector – Standard Configuration

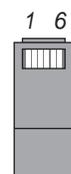
Pin No	Function
1	Not Connected
2	Command code from the external equipment to the Mirage. (0V/5V nominal)
3	Not Connected
4	Mirage On signal from the Mirage to the external equipment. (On = 5V, Standby = 0V nominal)
5	0V – DC ground
6	Demodulated IR signal from the Mirage IR sensor to the external equipment. (0V/5V nominal)



Connector on the Interface PCB



Male RJ12 connector – front view



Male RJ12 connector – top view

Command Codes via the RJ12 Connector – NEC Protocol.

The codes in the table on page 55 are the codes that will be sent to the Mirage via the RJ12 connector.

The voltage levels that are accepted as an input on pin 2 of the RJ12 connector (command code from external equipment to the Mirage) are:

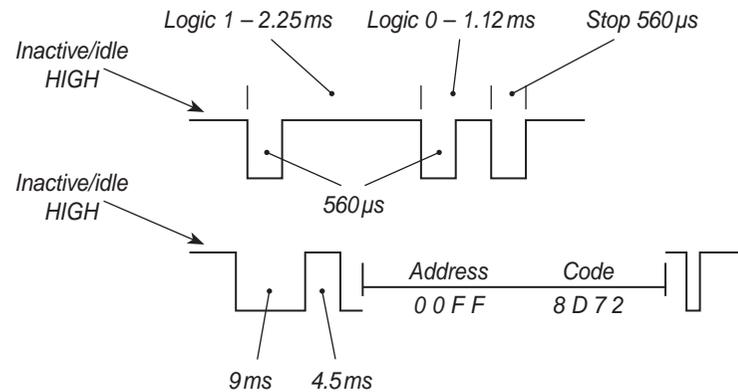
HIGH + 5VDC LOW 0V

Important: When the input on pin 2 of the RJ12 connector is inactive/idle it must be held **HIGH**. If pin 2 of the RJ12 connector is held low, all subsequent command codes via the RJ12 connector and via the Mirage IR receiver (sent from the Mirage IR remote control) will fail and the Mirage will be non responsive.

Pin 5 of the RJ12 connector is DC ground.

The command codes in the table below are written in the NEC protocol format. Care must be taken when generating the command code. The command codes are written as MSB (Most Significant Bit), LSB (Least Significant Bit). The codes when delivered to the Mirage must be LSB, MSB.

For the command codes in the table below to work correctly the format of the NEC protocol must be **INVERTED**.



The address is 00FF (hex). An example of the 'Power On' command code written in the table – Power On = 00FFD827

An example of the 'Power On' command code delivered to the Mirage via the RJ12 connector – Power On = 00FF8D72 – LSB first.

👉 Check www.tilevision.tv for updated information.

Command Codes for the RJ12 Connector/IR Remote Control Codes – NEC Protocol – Address 00FF

Function	Hex Code			
Power ON	D	8	2	7
Power Toggle ON/OFF (see note)	1	C	E	3
DTV	E	8	1	7
ATV	E	7	1	8
SCART	E	A	1	5
Component	E	6	1	9
PC – RGB	E	9	1	6
HDMI	E	B	1	4
Composite	E	C	1	3
S-Video	E	5	1	A
Input	1	7	E	8
Channel 1	5	4	A	B
Channel 2	1	6	E	9
Channel 3	1	5	E	A
Channel 4	5	0	A	F
Channel 5	1	2	E	D
Channel 6	1	1	E	E
Channel 7	4	C	B	3
Channel 8	0	E	F	1
Channel 9	0	D	F	2
Channel 0	0	C	F	3
CH + Channel Up	0	9	F	6
CH – Channel Down	0	5	F	A
Vol + Volume Up	4	B	B	4
Vol – Volume Down	4	F	B	0
Mute	0	8	F	7
Menu	1	8	E	7
▲ Navigation Up	1	A	E	5
▼ Navigation Down	4	8	B	7
◀ Navigation Left	4	7	B	8
▶ Navigation Right	0	7	F	8
Enter/OK	0	6	F	9
Exit	0	A	F	5
EPG	4	0	B	F
Red (Fast Text)	5	D	A	2
Green (Fast Text)	5	9	A	6
Yellow (Fast Text)	5	1	A	E
Blue (Fast Text)	5	5	A	A
Fav (Favourites)	5	8	A	7
Info (Information)	5	C	A	3
Pic (Picture Mode)	4	E	B	1
Sound (Sound Mode)	4	A	B	5
Aspect (Aspect Ratio)	0	2	F	D
Return (P◀P/Previous Channel)	4	9	B	6
Audio	5	3	A	C
Subtitle	5	7	A	8
Sleep	1	E	E	1
Text	0	3	F	C
Index (Text)	5	6	A	9
List (Text)	5	2	A	D
Hold (Text)	5	A	A	5
Size (Text)	5	B	A	4
Reveal (Text)	5	E	A	1
Subpage (Text)	5	F	A	0
TV/Radio (DTV only)	1	0	E	F
Nicam (ATV only)	1	4	E	B

To program an IR remote control to transmit a signal to operate the Mirage the codes in the table (left) must be entered.

Note: There is no discrete Power Off code, the Power Toggle On/Off must be used to set the Mirage to standby.

Power Toggle On/Off will set the opposite condition of the Mirage as below.

Mirage On – Power Toggle On/Off – Mirage set to Standby.

Mirage Off – Power Toggle On/Off – Mirage set to On.

RS-232 Port

The RS-232 port is a DB9 male connector. This connector allows Home Automation Systems to send command codes directly to the Mirage.

The Mirage will only receive RS-232 codes, it does not transmit codes. Only pin 2 (receive) and pin 5 (ground) are connected in the DB9 male connector.

To connect to the RS-232 port a DB9 female connector must be used.

If a standard RS-232 port is to be connected to the Mirage RS-232 port, pins 2 and 3 must be cross wired. So pin 3 (transmit) of the external equipment will be connected to pin 2 (receive) of the Mirage.

RS-232 Protocol

Baud Rate	38400
Bits	8
Parity	None
Stop Bit	1

Command Code Sequence

A0 F0 55 FF <Code> <Check Sum>

The time of the command sequence must be < 500ms.

The interval time of two continuous command sequences must be > 500ms.

RS-232 Code Listing (Hex)

Function	Code	Check Sum	Function	Code	Check Sum
Power ON	61	9F	UP	1A	E6
Power OFF	62	9E	DOWN	48	B8
0	0C	F4	LEFT	47	B9
1	54	AC	RIGHT	07	F9
2	16	EA	ENTER	06	FA
3	15	EB	RETURN	49	B7
4	50	B0	EXIT	0A	F6
5	12	EE	SOUND	4A	B6
6	11	EF	PIC	4E	B2
7	4C	B4	ASPECT	02	FE
8	0E	F2	SLEEP	1E	E2
9	0D	F3	TEXT	03	FD
VOL+	4B	B5	INFO	5C	A4
VOL-	4F	B1	FAV	58	A8
CH+	09	F7	EPG	40	C0
CH-	05	FB	RED	5D	A3
INPUT	17	E9	GREEN	59	A7
DTV	E8	18	YELLOW	51	AF
ATV	E7	19	BLUE	55	AB
HDMI	EB	15	REVEAL	5E	A2
COMPONENT	E6	1A	HOLD	5A	A6
S-VIDEO	E5	1B	LIST	52	AE
SCART	EA	16	INDEX	56	AA
COMPOSITE	EC	14	SUBPAGE	5F	A1
PC	E9	17	SIZE	5B	A5
MUTE	08	F8	AUDIO	53	AD
MENU	18	E8	NICAM (ATV)	14	EC
			SUBTITLE (DTV)	57	A9

Design and specifications are subject to change without notice.

Display	Screen Size	19" (480mm) Diagonal Widescreen (16:9)	
	Resolution	WXGA+ (1440 x 900)	
	Type	a-si TFT active matrix LCD	
	Brightness	300cd/m2	
	Contrast Ratio	1,000:1	
	Viewing Angle	85°/85°/80°/80° - L/R/U/D	
	Colour Depth	16.77M colours (6bit + Hi-FRC)	
	Response Time	5 ms	
Audio	Speaker	2 x integral Gel Audio™ transducer	
	Output	3W + 3W rms	
	Features	Nicam A2 Stereo, Treble and Bass Controls	
Tuner/Reception	Digital TV	DVB-T (MHEG-5) MPEG-2 decoding	
	Analogue TV	PAL-BG, I, DK/SECAM-BG, DK, L	
	Programme	VHF:2-13 UHF 21-69 Cable S1-S41	
	Channels	DTV 400, ATV 100	
	Aerial Input	75 ohm coaxial	
Connectivity	HDMI	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	
	Component (Y,Pb,Pr)	480i, 480p, 576i, 576p, 720p, 1080i, 1080p	
	SCART	Full Scart	
	PC RGB (D-sub)	Up to 1280 x 1024 at 75 HZ, 1366 x 768 at 60 HZ	
	S-Video	S-Y:1.0V Vp-p +/-5% S-C:0.3Vp-p, +/-5%	
	Composite (CVBS)	1.0Vp-p +/-5%	
	Common Interface Port	Additional channels via CAM/Smartcard	
	L+R Audio Input	2 x RCA for Component and S-video Audio Input	
	PC Audio Input	1 x Stereo Jack Socket for PC Audio Input	
	Audio Out	Headphone	
	Speaker	Clip Terminals LEFT +/- and RIGHT +/-	
	Control	RS-232	Receives RS-232 Control Codes from Home Automation/Hotel Systems
		Sky™ IR Link	Control of a Sky Box via the Mirage IR receiver and Aerial cable
RJ12		Command code in and out	
3.5mm IR In		For connection to external IR receiver	
3.5mm IR Out		For connection to external IR emitter	
Power	AC/DC Adaptor 4M Lead	Input 100-240 VAC 50/60Hz Output 12VDC/5A	
	Consumption	50W max	
	Standby	Below 3W	
Dimensions/Weight	External Dimensions (W x H x D)	600mm x 800mm x 61mm	
	Total Weight	16Kg (35lb)	
Accessories	Waterproof Remote Control	IP67, Full Function, complete with battery	
	Remote Control Holder	Wall/Tile mount, clear plastic with gel adhesive strip	
	Standard Remote Control	Complete with batteries	
	Mains Power Lead	UK and Europe	
	AC/DC Adaptor	Complete with detachable 4 meter cord	
	Installation and Operating Instructions	Book	
Convenience Features	Multi Language OSD	English, Español, Françes, Italiano, Nederlands, Polski, Portugês, Русский, and Deutsch	
	Auto Tuning	DTV and ATV	
	Manual Tune	DTV and ATV	
	Programme Edit	Allows programmes to be deleted, skipped, or selected as favourites	
	Favourites List	Favourite channels can be stored and accessed in a favourites list	
	EPG	8 day Electronic Programme Guide	
	Picture Mode	Standard, Movie, Dynamic, Personal, Soft	
	Sound Mode	Standard, Music, Movie, Sports, Personal	
	Aspect Ratio Control (ARC)	Auto, Zoom 1, Zoom2, 16:9, 4:3	
	AVL	Auto Volume Leveller	
	Subtitles	Switchable, as available from the broadcaster	
	Digital Text	MHEG-5 - Interactive text via the red button	
	Analogue Teletext	TOP/FLOF	
Hotel Mode	Volume Limit	Set maximum volume limit	
	Input Selection	Selects which Inputs will be available on the Input Menu	
	Input Priority	Selects which Input will be the default when the Mirage is turned on	
	Menu Button Disabled	Menu button can be disabled to prevent access to menus by hotel guest	



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