



User Manual

Digital Set Top Box



AMTDT 1182

Please read this User Manual carefully to ensure proper use of this product and keep this manual for future reference.

Customer Help Line : 0845 293 7698

Website : www.ekey.co.uk

Contents

1.	Safety Information	2
2.	Safety Instructions	3
3.	Accessories	4
4.	Remote Control	5
5.	User Controls and Rear panel illustration	6
6.	Typical connections	7
7.	User Instructions	8
8.	First Time Installation	23
9.	Trouble Shooting Guide	26
10.	Specifications	27

1. Safety Information



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated “dangerous voltage” within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to the persons.



The exclamation point within an equilateral triangle is intend to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



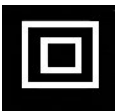
Correct disposal of this Product

(Waste Electrical & Electronic Equipment (WEEE))

The crossed out “Wheelie bin” is intended to show that this appliance must not be placed with ordinary household waste at the end of its useful life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please keep separate from other household waste and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where you purchased the product, or their local government office for details of where and how you can take this item for environmentally safe re-cycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product must not be mixed with other commercial wastes for disposal



This symbol denotes the apparatus is CLASS 2 and MUST NOT be connected to Mains earth.



This appliance complies with European Safety and Electrical directives

2. Safety Instructions

CAUTION. PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS USER MANUAL AND MARKED ON THE APPLIANCE. RETAIN THIS BOOKLET FOR FUTURE USE. This STB has been designed and manufactured to assure your personal safety. Improper use can result in Electric shock or Fire hazard. The safeguards in this appliance will protect you if you observe the correct procedures for installation, servicing and operation. There are NO user parts inside. DO NOT REMOVE THE CASE OR OTHER COVERS THIS WILL INVALIDATE YOUR WARRANTY. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL.



Unpacking and Handling. Open the carton carefully and remove the packing. Remove the Poly bag and retain all packaging for future use. Keep all packaging away from small children and animals.



Placing STB. The STB should be placed on a firm table or shelf. If placing in a cabinet ensure there is sufficient spacing for air flow.



Ventilation and Heat Sources. Do not place material over the ventilation slots, this will cause the STB to overheat and fail. Do not place the STB in direct sunlight or near heat sources such as radiators or fires.



Ventilation slots. Do not allow objects to be dropped inside the ventilation slot, this could cause a short circuit and a possible fire. Do not allow chains to be dangled into the STB.



Candles and Open flames. Do not place lighted candles ("T" Lights) on the top or at the sides of the STB, or any other naked flame near the STB cabinet.



Connections. When connecting the STB to external sources and the mains supply, do not place wires that can be tripped over. Do not trap or place heavy objects on the mains lead or adaptor.



Dis-connection Device. The mains plug is the Disconnection device and MUST be accessible at all times



Moisture. Do not place the STB in wet or damp conditions, such as steamy kitchens, basements or other damp places. Do not allow water or other fluids to enter the STB. Do not touch the Mains plug or adaptor with wet hands. Should moisture enter the STB, disconnect from the supply and call the customer help line.



Cleaning. Disconnect the STB from the mains supply. Use a soft dry cloth, for stubborn stains use a soft moist cloth with a dilute mild detergent.. Do NOT use petrol based fluids or abrasive materials.



Lightning.

During a thunderstorm or when leaving the appliance for long periods such as holidays, disconnect the aerial input (if external aerial) and remove the mains plug, This is to prevent power surges damaging the apparatus

DIGITAL SWITCH OVER AND YOUR STB.

WHAT YOU NEED TO DO TO ENJOY WATCHING TV DURING AND FOLLOWING DIGITAL SWITCH OVER.

Starting in 2008 and ending in 2012, television services will go completely digital, TV region by TV region. To continue using your STB during and following the digital switchover, you will need to "reset" your digital TV channels.

Users of this STB must reset on at least 2 different occasions, normally 1 month apart when your switchover happens. Digital UK, the body leading the digital switchover, and broadcasters, will advise you when to reset your digital channels on each occasion.

If you do not reset your digital channels, you risk losing some or all of your TV services during and following switchover.

Please refer to this instruction manual to retune the Digital TV services.

Do NOT use "ADD" channels, you MUST "RESET" and allow a complete retune. (See page 23)

For more information please contact the "Customer Help Line" (Page 26) or visit www.digitaluk.co.uk

3. Accessories

Please check the contents of the TV before you continue. If any item is missing please contact your point of purchase.

User Manual



Remote Control



Scart Lead

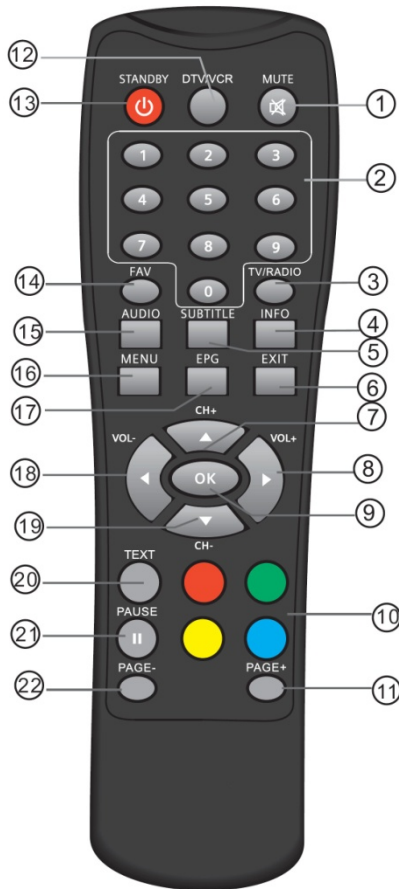


Mains Adaptor



4. Remote Control.

1. **MUTE.** Press to mute sound, press again to restore sound.
2. **0-9.** Numeric buttons for direct channel selection or input numbers in Menu selection.
3. **TV/RADIO.** Selects TV or Radio channels.
4. **INFO.** Displays information about the channel being viewed.
5. **SUBTITLE.** Displays subtitles and may select different languages if transmitted.
6. **EXIT.** Exits setup menus.
7. **CH+.** Channel UP select. Also navigates in menu modes
8. **VOL +.** Volume up button. Also navigates in menu modes
9. **OK.** Confirmation button.
10. **COLOUR BUTTONS** for use in Teletext mode.
11. **Page +.** Use to page Up when there are page lists (eg Channel lists).



12. **DTV/VCR.** Used to switch between VCR Scart input and DTV output mode.
13. **STANDBY.** Switches to Standby and Operation.
14. **FAV.** Displays Favourite program listing.
15. **Audio Language.** Press to select different audio languages if transmitted.
16. **MENU.** Enters menus and sub menu's.
17. **EPG.** Selects Electronic Programme Guide.
18. **VOL -.** Volume down button. Also navigates in menu modes
19. **CH-.** Channel DOWN select. Also navigates in menu modes
20. **TEXT.** Selects Teletext and interactive Mheg functions.
21. **Pause.** Freezes the programme. Press again to resume.
22. **Page -.** Use to page Down when there are page lists (eg Channel lists).

Battery Fitting and Removal.

- Open the battery cover
- Fit two "AAA" batteries (Not supplied). Ensure the battery polarities are correct i.e + to + and - to -.
- Replace the battery cover

To prevent injury, do NOT break open or throw exhausted batteries in a fire. Do not place in the domestic waste, consult your local waste disposal company.

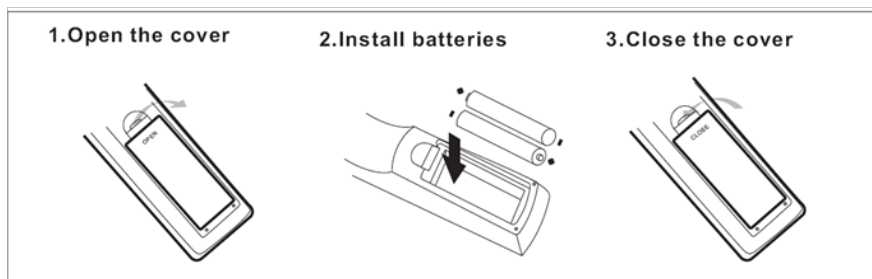
Do not mix batteries, old and new, Carbon or Alkaline.

Do not use re chargeable batteries.

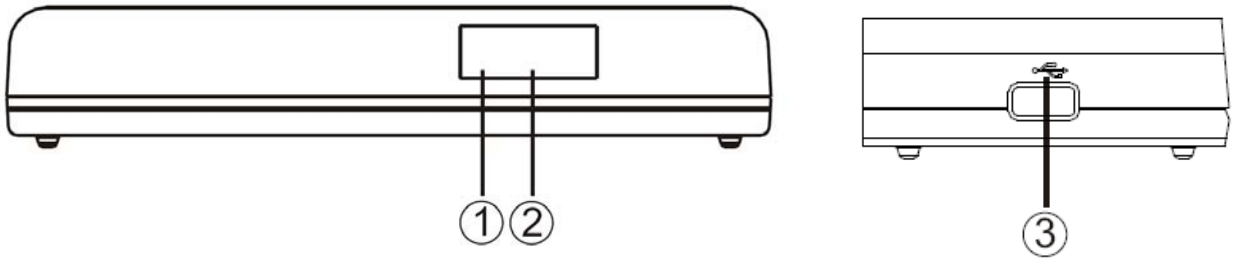
Remove batteries if not using the remote control for long periods to prevent leakage.

If the batteries do leak, clean the compartment with soapy water and scrape any residue from the contacts. To NOT touch or ingest battery residue.

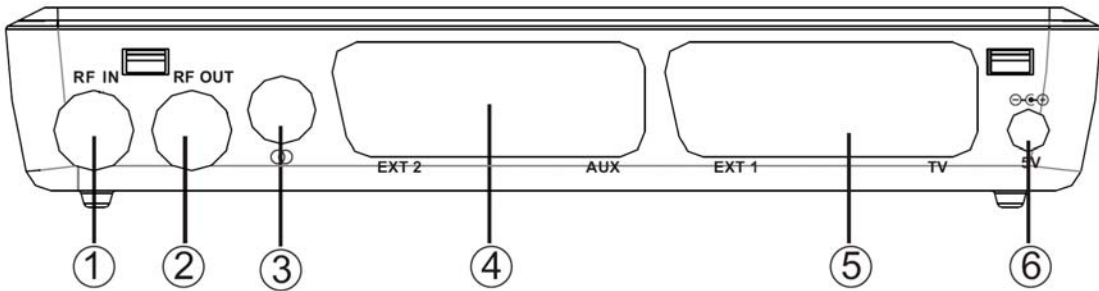
Should you swallow chemicals leaked from a battery, please URGENTLY consult a medical adviser.



5. User Controls and Rear panel illustration

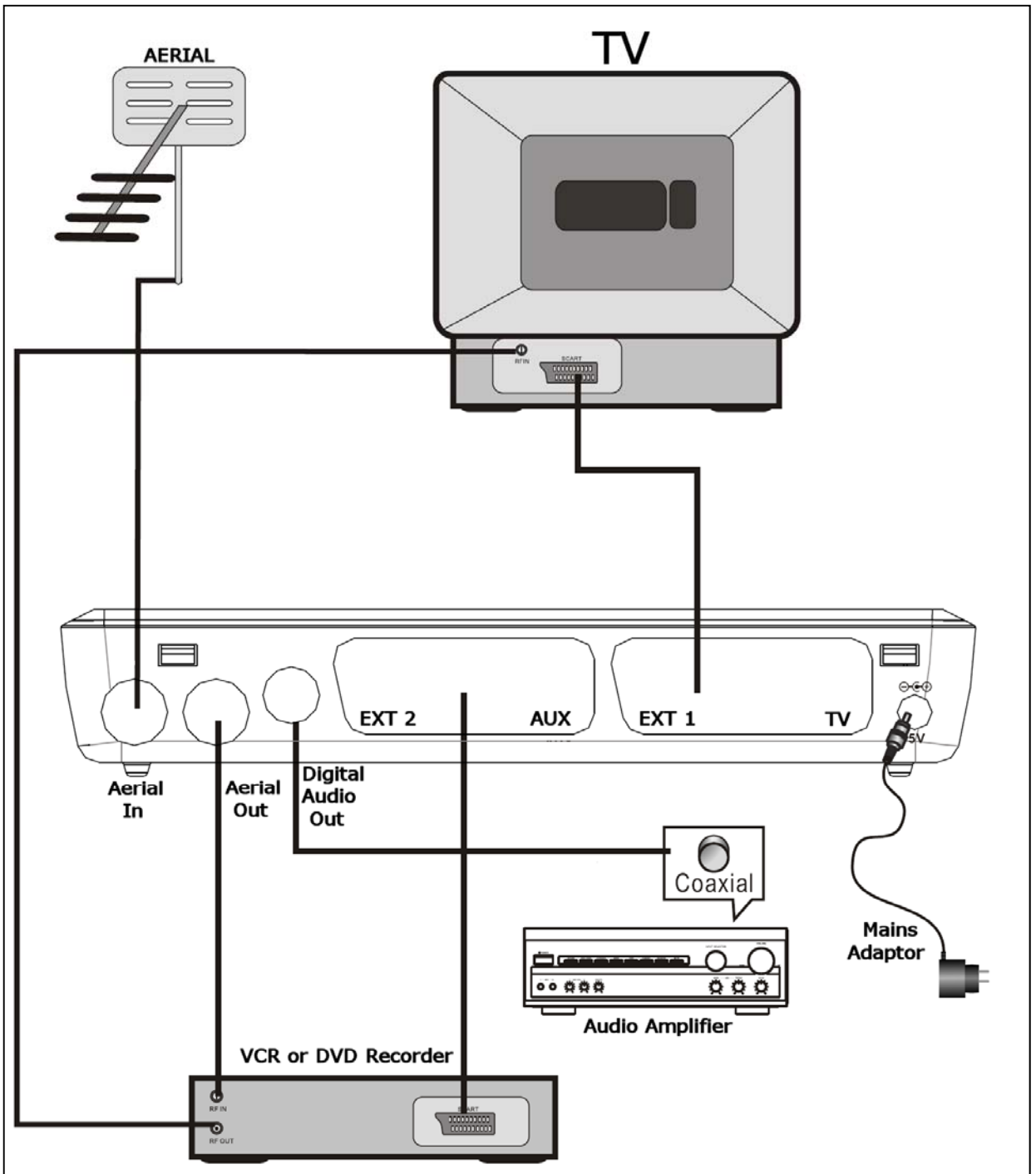


1. **Standby Indicator.** . Led will show Green when operation, will show Red in standby.
2. **Remote Control Sensor.** Receives the Infra Red signal from the remote control.
3. **USB Connector.** Used for “ Firmware Upgrades” and allows a “Media” memory item to be connected to replay, Music, Pictures and Movies.



1. **Aerial input.** Connect to an external aerial for best results.
2. **RF Loophrough.** TV RF output signal to other apparatus.
3. **Coaxial Output.** Connects encoded audio to your Hi Fi amplifier.
4. **VCR Scart.** Connect to a VCR or DVD Recorder to record programmes.
5. **TV Scart.** Connect to your TV
6. **DC in 5V.** Connect to the mains adaptor.

6. Typical connections



Note: When connecting the receiver to other equipment, e.g., TV, VCR and amplifier, make sure to refer to relevant user manual for instruction. Also, make sure you disconnect all the equipments from the mains supply before the connection.

7. User Instructions

The 'Exit' key will remove all digital menus. The exception to this is for persistent banners i.e. encrypted service etc. and for servicelocked/ censorship PIN entry OSDs.

All menus will automatically be removed after 30 seconds unless otherwise stated.

The menus use a 256-colour palette. The menus will currently support just English language.

1) Welcome Screen

When the STB is powered up for the first time or is brought out of standby with no services, then a welcome screen will be displayed. This will tell the user to press the OK key to start a full frequency service scan.



2) Volume Control

A bar is to be displayed when volume is changed by pressing Vol+ or Vol-. The bar will disappear after a predefined time following the last Vol+ or Vol- keypress. Automatically removed after 2 seconds.

3) Mute Symbol

Pressing the Mute key mutes the sound and a symbol is displayed, Automatically removed after 2 seconds.

4) Screen Freeze

Pressing the Pause key to Freeze the Screen and a pause symbol is displayed. Press the Pause key again to exit Freezing.

5) Direct Digit Entry

When the user initiates a channel change using the number keys, the user can press the OK key to force the channel change before all 3 digits have been entered. If all 3 digits are entered then the channel change will occur.

5 seconds after the last keypress, the channel change will be initiated if all digits have not been entered.

6) TV/Radio Switch

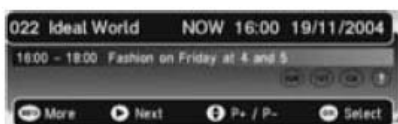
Press TV/Radio key on the remote to toggle between TV channels and Radio stations, then you will change among the TV channels or Radio stations by pressing CH+/- button. This mode will be removed later if you select a channel by **Direct Digit Entry** or **Service Organiser**.

7) DTV/VCR Switch

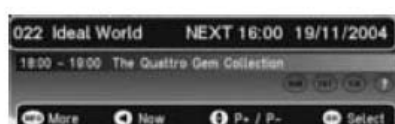
Press DTV/VCR key on remote to toggle between DTV and VCR mode.

8) Digital Information

When viewing a digital program, a single press of the info key will bring up the first level of program information shown below. This shows the time, logical channel number, channel name and 'Now' program information. It also shows the current favourite list that is been used/selected. The information banner appears at the bottom of the screen.



Now Information



Next Information

8.1) Small Now Information

The user can scroll through information for other channels in the currently selected favourites list or the full service list if a favourites list is not enabled. This is done using the up and down keys. Whilst information for other channels is displayed the actual channel being viewed will not change. The OK key will jump to the new channel. After a channel change, the information banner will be removed after 4 seconds. In addition the user can toggle between 'Now' and 'Next' information using the left and right keys. To display 'Next' information from the 'Now' banner, the user presses the right key. This OSD will be semi-transparent.

8.2) Small Next Information

The user can return from 'Next' to 'Now' Information using the left arrow key.

A second press of the INFO key will bring up the extended program information, and example is shown below.

8.3) Large Now Information









Large Information

Again, the user will be able to scroll through information for other channels whilst still watching the current program by using the P+/P- keys.



In addition, the left and right cursor keys will toggle extended info for 'Now' and "Next". A third press of the info key clears all on screen information.

This OSD will be semi-transparent.







Icons are used to notify the user of some information about the displayed event:

-  DVB subtitles are available for this event.
-  An MHEG application is available for this event.
-  This event is encrypted. Even if a CAM module is decrypting the event.
-  DVB subtitles are NOT available for this event.
-  An MHEG application is NOT available for this event.
-  This event is NOT encrypted.

If none of the above are being displayed then if the service is audio or data only, the following will be displayed.

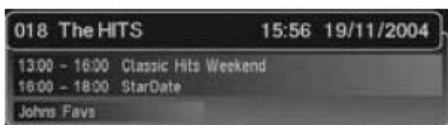
-  Service is data/txt only.
-  Service is audio only.

Event can be classified by the broadcaster and will show an icon to tell the user the age restrictions.

-  The event has an adult content age rating. Broadcast age rating 18+.
-  The event is not suitable for children under the age of 15. Broadcast age rating 15-17.
-  The event is not suitable for children under the age of 12. Broadcast age rating 12-14.
-  The event is not suitable for children under the age of 6. Broadcast age rating 6-11.
-  The event is suitable for all ages. Broadcast age rating 0-5.
-  The event has NOT been given an age rating and may contain unsuitable content.

9) Channel Change OSD

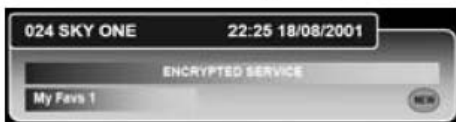
This is the graphic seen after using P+/P- or when a direct digit entry channel change is completed. It times out after 4 seconds. If P+/P- is used then the new service will be the next/previous service in the currently selected favourites list. If no favourites list is selected/enabled then the full service list will be used. Direct digit entry will tune to a service using its LCN. This may not be in a favourite list. This OSD will be semi-transparent and will automatically timeout after 3 seconds. This banner will stay persistent when no video can be watched on the TV. This banner will also display the current favourite list enabled. The following messages will be displayed under various circumstances:



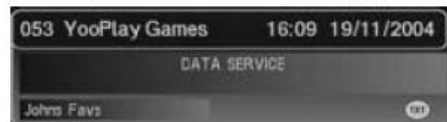
Channel Change Banner



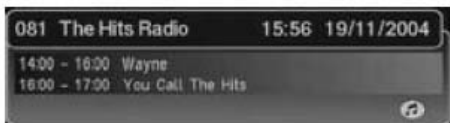
No services are stored in the receiver



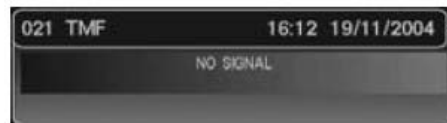
This service is encrypted



This is a data/MHEG only service



This is an audio only service

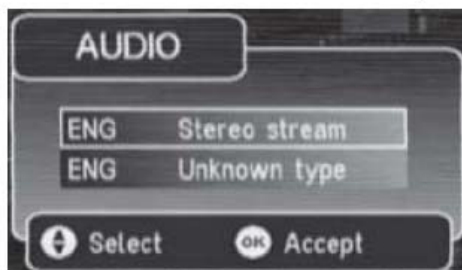


No Signal

10) Audio

Pressing the audio key will display the following menu. This menu displays all the audio streams available on the current service. The selection is done using the up/down keys. Pressing the OK key selects the new audio. This selection is only valid until power-down or service change.

This menu will be automatically removed after 5 seconds.



Audio menu



Subtitle menu

11) Subtitle

Pressing the subtitle key will display the following menu. This menu displays all the subtitle streams available on the current service and a subtitle off option. The selection is done using the up/down keys. Pressing the OK key selects the new subtitle language. This selection is only valid until power-down or service change. Enhanced subtitle streams are indicated by an ICON. This menu will be automatically removed after 5 seconds.

12) Data Service Loading

If the Teletext key is pressed on a service that contains an MHEG data application and data services have been enabled in the languages menu, then before the application has been fully loaded, this display will be presented.



The graphic is displayed in the center of the screen. This will be automatically removed when the MHEG application acquires the display or will timeout after 60 seconds if the MHEG application fails to launch.

13) TV Guide

Pressing the EPG key displays the following guide menu. The guide contains all the channels in the service list rather than just the favourites list. This allows the user to view the now and next event information for every service as well as the extended information for a selected event. Also a video/audio preview is given which shows the program that is currently being watched .

The user can scroll through the service list, select between now or next information and also use the RED key to add a timer programming event. If the video cannot be displayed then one of the following messages will be displayed in the preview area:

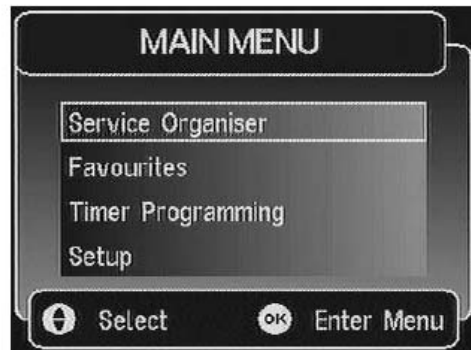


14) Main Menu

The Main Menu contains 4 options.



EPG menu



Main Menu

1. Service Organiser

Accessed from the main menu, the service list contains the details of the services that have been added into the system. The list can be scrolled through using up and down. The selected channel appears with a white border. Channels can be selected by pressing the OK button. Channels can be deleted with the 'Red' button (however, a full-scan will delete and replace all the channels), the user will be asked for the PIN number each time they delete a channel. The 'Green' button is used to allow service reordering. The 'Yellow' will allow the user to edit the service name.



Service Organiser



PIN requested for deletion

The UHF column showing the frequency channel that the service is on, will only be present on a terrestrial system.

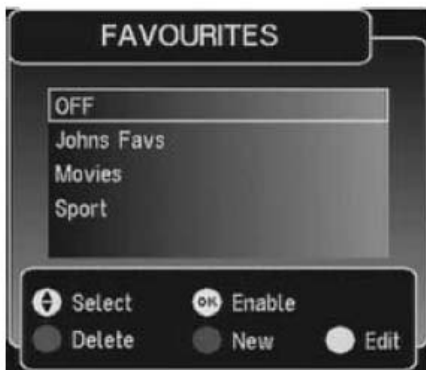
If the user selects to delete a service, then the first time this is selected the user must enter the PIN. This is to prevent deletion of services without a parent's consent.

2. Favourites

- (1.) Select main menu.
- (2.) Scroll to favourites.
- (3.) Press green button to create favourite list.
- (4.) Press yellow to show edit list.
- (5.) Scroll up/down to select channel.
- (6.) Press OK to add to list.
- (7.) Repeat process to add further channels.

2. 1) Favourites Edit

Accessed from the favourites menu. The order of the Favourite list determines the order the programs appear when the user surfs up and down the channels with the P+/P- keys. The full service list and the favourite list can be scrolled through using up and down. The two lists are selected by using the left/right keys. The selected channel appears with a white border. The favourite list can be re-ordered using the 'Green' key. The favourite list name can be changed by pressing the 'Yellow' key which will bring up the edit menu.



Favourite Menu



Favorite Edit

Depending on which list the user has selected the help will Change: Left List (Service List). Right List (Favourite List).



Left List Help Info



Right List Help Info

To re-order a favourite service the user must select the required service using the up/down key and then use the green key to enter re-order mode. When the green re-order is selected the user will be presented with another help:



Re-order Menu

2.2) Name Editor

This name editor menu is used for allowing the user to rename a favourite group. The character selection is done by moving the highlight around a character matrix and using OK to choose the character. The new name is displayed at the top of the menu. 'CAPS' is used to toggle the letters between upper-case and lower-case and 'Delete' is used to backspace/delete the last character. When complete the 'Green' key saves the new name and exits the menu. The 'Yellow' key will cancel the current edit and return to previous menu with no name change.



Favourite Name Edit Menu



Timer Programming Menu

3. Timer Programming

This menu is arrived by selecting the timer programming option in the main menu.

Note: The DVR option is not available with this model.

3.1) Enter Details

When the OK key is pressed, the following menu is displayed:



Timer Details Edit Menu



Enter PIN to remove parental locking

The options are:

- CN** Three digit channel number.
- Date** Start date in DD/MM/YYYY format.
- Time** Start time in HH:MM format.
- Duration** Duration in HH:MM format.
- DVR** Set to Yes if to save event to internal hard drive if DVR option enabled.
- Repeat** Event repeat mode. Options are No, Weekly, Daily, Mon-Fri and Mon-Sat.
- Subtitles** This Options are Yes to use the current subtitle language mode as set in the “languages” menu. No will turn off subtitles during the timed event if enabled in the “languages” menu.

When the user presses 'OK', the entered items are validated.

If an error is detected a message is displayed such as:

Error message that can occur:

ERROR -Time overlaps with another entry

ERROR -Invalid service

ERROR -Invalid date

ERROR - Invalid time

ERROR - Invalid duration

ERROR - Current time not available

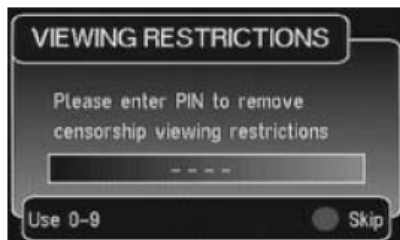
3.2) Viewing Restrictions

When the user presses 'OK' and the items are validated successfully, the TV will check if censorship is enabled or the channel is parentally locked.

If the service is parentally locked, the TV will ask the user to enter the PIN number to remove viewing restrictions with the following menu:

If the PIN is not entered before a timeout, or it is cancelled, then the event will NOT be added and the display will return to the enter details menu.

If the censorship level has been set above no-block then the TV will ask the user to enter the PIN number to remove viewing restrictions with the following menu:



Enter PIN to remove censorship locking



The restricted program added in the timer list

If the PIN is not entered before a timeout or it is skipped then the event will still be added and viewing restrictions will apply to the event depending on its censorship level. This is because the censorship value of the event is not known at the time of entering the timed event. Timer entries that have had a valid PIN entered are displayed with an icon at the end of the line.

4. Setup Menu

This menu options allow the user to set up the system.



Setup Menu



Languages Menu

4.1) Languages

This menu allows the user to set-up default languages for subtitles, data services and audio. The values are used on power up. In addition, the 'Data Services' and 'Audio' values are used on channel change. The subtitle value is also used on a channel change, but only if it hasn't been over-riden by the subtitle key.

The options are:

Subtitles Selects the default text language to be used for DVB subtitles.

The options are OFF, English, Welsh and Gaelic.

Data Services Selects the default text language to be used for MHEG data services. The options are OFF, English, Welsh and Gaelic.

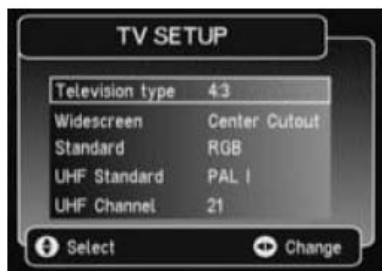
Audio Selects the default audio language to be used on power-up and service change. The options are English, Welsh and Gaelic.

OSD Selects the default text language to be used in the menus and off-air service information.

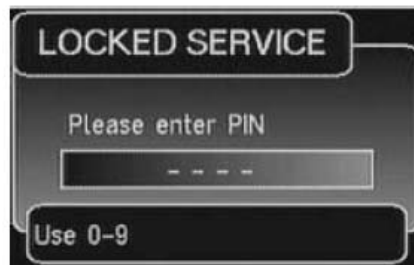
This options just English currently.

4.2) TV Setup

The TV menu will have the following options:



TV Setup Menu



Enter PIN for locked channel

The options are:

- Television type** Selects the type of tube that the set-top-box is connected to. The options are 4:3 and 16:9.
- Widescreen** This option is only available when 4:3 is selected in the shape option. It is used to select what the user requires to be displayed for 16:9 transmissions. The options are Letterbox, Center Cutout and Full Frame.
- Standard** This option sets the SCART output mode. The options are CVBS, RGB.
- UHF Standard** This option sets the color system for the RF modulator.
- UHF Channel** This option sets the output channel for the RF modulator.

4.3) Parental control

The default Parental control PIN is "0000".

4.3.1) Viewing a Locked Channel

Selecting a channel that is locked results in the following OSD being displayed:

Entering a valid PIN will give access to the required service. Locking is on a per-channel basis, so if the user switches to another locked channel they will have to re-enter the PIN to view it. The channel will remain unlocked until power-down. If the PIN is not entered then this OSD will be displayed at all normal viewing times. i.e. After leaving the menus this display will return.

4.3.2) Parental Locking via Menu Selection

The



Enter PIN to access Menu



Parental Control Menu

System benefit from being supplied with a default PIN and a master PIN. The master PIN is intended to be used to over-ride the user supplied PIN if it is lost or forgotten.

4.3.3) Parental Control Menu

Entering a valid PIN gives access to a sub menu that provides options to change the PIN, Lock and Unlock services or adjust Censorship.

The Censorship option allows the user to select a blocking age on service programs.

The options are:

- Block** Total block. Will block all service events.
- 18** Age rating 18. Will block service events with age rating 18+.
- 15** Age rating 15. Will block service events with age rating 15+.
- 12** Age rating 12. Will block service events with age rating 12+.
- 6** Age rating 6. Will block service events with age rating 6+.
- OFF** No block. Will not block any service events.

When “Change PIN” or “Lock/Unlock Services” is selected then the help will change to the following:

4.3.4) Censorship

The Television has a global censorship rating, which is set to the Censorship block level in the above menu at power-up. If the user tries to watch a program that has a broadcast rating above the global rating, the user must raise the global censorship rating of the TV to match the broadcast program. The following OSD is displayed when a censored program is encountered:



Enter PIN to view the censored service



Change PIN

The limit is raised to that of the broadcast program until the TV is put into standby. If the PIN is not entered then this OSD will be displayed at all normal viewing times. i.e. After leaving the menus this display will return.

4.3.5) Parental Locking Change PIN

Selecting the option to change the PIN takes the user to a further sub menu that handles the confirmation and storing of the new PIN.

The menu prompts for a new PIN. The select option allows the user to edit the numbers being entered. As each number is entered, the "-" in the display is replaced by a "-". Pressing the OK key causes the confirmation input line to be highlighted and the process to be repeated. If the entered numbers are not identical, "Numbers no identical" is displayed in the gray area.

4.3.6) Parental Control Lock/Unlock Services

Selecting the Lock/Unlock Services option gives access to the service locking menu as shown below. The program list is displayed and the user can scroll through it, using the up and down keys. The 'Select' key is used to lock and unlock access.

The 'LOCK' Icon indicates that the channel is locked.

4.4) Service Setup



Lock or Unlock Services



Service Setup Menu

4.4.1) Full Scan Add New Services

When the 'Full Scan Add New Services' option is selected, the end of the service list is displayed. When new services are found, they are displayed at the end of the existing list in a highlighted yellow colour. During the scan a progress bar is displayed and a message giving the estimated time remaining to complete the scan.

When the scan is complete the progress bar will show 100% and a message stating how many new services have been found is displayed.



Full Scan Add New Services



Show how many services added

4.4.2) Full Scan Replace Existing Services

When 'Full Scan Replace Existing Services' option is selected, the same as the 'Full Scan Add New Services' menu is displayed except that the existing services in the system are deleted before the scan starts.



Full Scan Replace Existing Services



Manual Scan Menu

4.4.3) Manual Scan

This menu allows the user to manually tune in services. This menu will have different parameters.

Editable options are:

- Channel** Sets the required UHF channel. This will automatically fill in the frequency entry.
- Frequency** Overrides and set the frequency in kHz.
- Tx Mode** Selects the required transmission mode. The options are 2K and 8K.
- Guard Interval** Selects the required guard interval. The options are 1/4, 1/8, 1/16, and 1/32.
- Scan** Starts or stops a service scan.

Information:

- Modulation** The modulation type of the locked stream. The values can be QPSK, QAM16 or QAM64.
- FEC** The FEC rate of the locked stream. The values can be 1/2, 2/3, 3/4, 5/6 or 7/8.
- Network ID** The network id of the locked stream.
- Transport ID** The transport id of the locked stream.
- Services Found** Number of services found on the locked stream after a scan.
- Services Added** Number of services added to the system after a scan. If some of the services found are already stored then they will not be re-added.

Signal Level Bar indicator to show the current signal level.
This bar will have 3 colours to distinguish how good the signal is: RED=Bad, YELLOW=Medium and GREEN=Good.
Text also displayed to state if the FE(Front-End) is locked.

Quality Bar indicator to show the current bit-error-ratio and text displaying the quality. This bar also have 3 colours indicating:
GREEN No front end errors.
YELLOW Errors detected but corrected.
RED Un-correctable errors.

Before a scan is started or when a scan is started and waiting for SI information the information parameters will be filled with dashes .

When changing the connection settings, the FE connection settings will be changed and the bars updated to show the current FE information.

To start a service scan the SCAN option must be selected and toggled to "Started". The user must then wait for the service information to be found and displayed.

While waiting for the service information and the services to be added the following will be displayed in the preview windows:

PLEASE WAIT ...

After the scan has completed the scan option will automatically toggle back to "Stopped".

The quarter screen preview will show the first service from the new services that have been added, along with the service name and provider name of the previewing service.

The user can then skip through the found services by using the P+ and P- keys.

If no new services are added then the preview window will stay blanked and no service or provider name will be displayed. The following will be displayed in the preview windows:

NO SERVICES ADDED

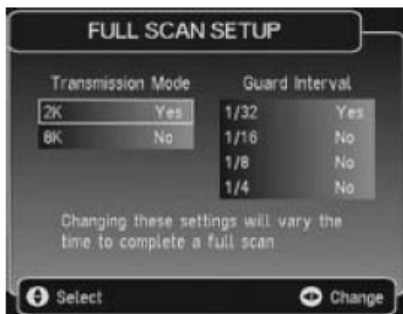
8. First Time Installation

If the video can't be displayed then one of the following messages will be displayed in the preview area:



4.4.4) Full Scan Setup

When the "Full Scan Setup" option is selected, an option list will be displayed allowing the user to modify what parameters will be used during the full scan procedure. This menu will have different parameters.



The options are:

Transmission Mode:

2K Yes/No

8K Yes/No

Guard Interval:

1/32 Yes/No

1/16 Yes/No

1/8 Yes/No

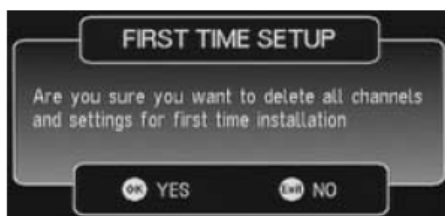
1/4 Yes/No

Full Scan Setup Menu

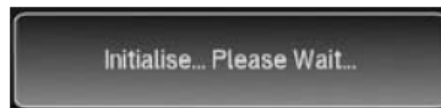
The default settings will be for the UK DTT network which is 'Yes' for 2K TX mode and 1/32 guard interval.

4.4.5) First Time Setup

This menu is used to delete all channels and settings to the first time installation, include Language, TV set, Service, Parental Control set, and then show the First time welcome screen.



First Time Setup



After initialize, the welcome screen will show.

Press OK key to delete all channels and settings, the following menu will displayed:

4.5.2) Update by OAD(Over Air Download)

(1) Notification

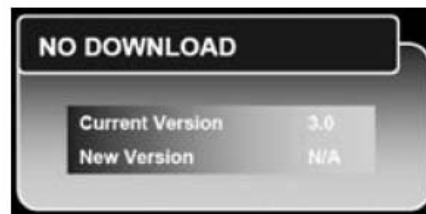
This menu is displayed when a new over air download is detected after power-up. This allows the user to select whether to start the download now or download later by adding the event to the timer programming table. If the event cannot be added, then an error message will be displayed. The user can refuse the download at this time by pressing exit (however, the download may be re-detected and indicated at next power-up).

Some downloads may be signaled as high priority which means the manufacturer of the receiver wants the user to perform the download. In this case the download will automatically start when detected or after leaving standby.

If a download is not available when manually checking for a download or the download becomes not available while the above menu is being shown, then the following menu will be displayed.



Download Available

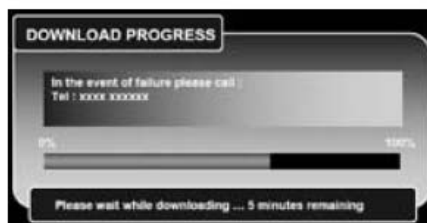


No Download

(2) Progress

During the download progress a message will be displayed which details to the user any message that the manufacturer requires. This message is broadcast as part of the download and isn't hard-coded into the interface. The message may describe new features of the download or a contact number in case of download failure. A progress bar and a time remaining countdown is displayed during the download.

If the download fails the following error message will be displayed.



Downloading



Download Fail

If the television uses one FLASH chip, the new images are downloaded into another memory space and then written to FLASH when the new images have been verified.

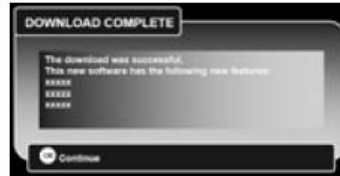
During this period the user must not turn off the receiver and the following message is displayed. While this message is displayed the television will not respond to any key presses.

(3) Download message after restart

When the receiver restarts after a download, the following menu will be displayed. This can contain either a success or failure message and any other information about the new software.



Don't Switch Off the Receiver



Download Completed

4.6) Technical Information

The Technical Information screen displays the hardware version number and software version numbers. The software version numbers depend on what modules are built into the software.

4.7) Antenna Setup

The Antenna Setup menu allows the user to enable or disable the antenna power supply for external active antenna.

9. Troubleshooting Guide.

If you are experiencing problems please read below before calling the Customer Help Guide

Symptom	Possible cause	Remedy
Dead. Led not lit	Power not connected to STB	Check STB is connected to the supply and turned on
No Picture on TV. Led Green	Output of STB not connected or Input to TV not selected.	Check scart connection to Tv.
		Check TV has Scart selected
TV displays "No Signal Found"	Aerial is disconnected	Check aerial connections
	Aerial is poor or damaged	Check Aerial condition. If damaged replace.
		If using an indoor aerial it may not be suitable for Digital signals
Some channels missing.	Poor reception area or signal	Some signals are stronger than others have your aerial checked.
Picture freezes or "Blocks"	as above	as above
Forgotten Child Lock Code	Senior moment	Re Install channels to cancel channel lock
Cannot receive advertised channels	Signal upgrade in your area	Re Install channels to add new channels see page 20
No Remote control functions	Batteries exhausted	Replace batteries in handset
	Object blocking I/R path	Remove any object blocking the I/R signal path

If you are still having difficulty please call the Technical help line. Ring 0845 293 7698 (Normal rates apply).
 Opening hours Mon-Fri 8 am – 8pm. Sat 9 am – 4pm. Sun 11am – 4pm "Bank holidays as Sun"
 Or try our website :- www.ekey.co.uk (24Hr) Emails should be responded to within 3 - 4 hours should the consumer have difficulty getting through.



Trade Mark of the DVB Digital Video Broadcasting Project(1991 to 1996)

10. Specifications.

Item	Specification	Notes
Tuner	Frequency Range	UHF 470 - 862 Mhz
	Input Impedance	75 Ohms unbalanced
	Signal Sensitivity range	100mV to 30 uV
	Bandwidth	8 Mhz
Demodulation	Demodulator	COFDM
	OFDM Modulation	2K,8K FFT,SFN and MFN
	Packet carriers	2K/8K
	Guard intervals	1/4,1/8,1/16,1/32.
Connectors	Aerial in	IEC169-2 Female
	RF Loop through	IEC165-2 Male
	TV Scart	Composite (CVBS), RGB, Audio L/R
	VCR Scart	Composite video (CVBS) Audio L/R
	Coaxial	RCA for SPDIF digital audio output
Power	Input	5V DC 0.65A
	Power consumption	Operating 3.25W. Standby 0.9W
Display	Decoder module	PAL
	Resolution	720 x 576
	Aspect Ratio	4:3, 16:9
Decoding	Video	MPEG2 Transport MP&ML
	Audio	MPEG2 Audio layer 1 & 11
Others	Compliance	ETSI EN300 744 DVB-T Compliance
	Sound Mode	Right/Left Stereo

Technical Specifications are subject to change without notice. Errors and omissions are exempted