

FERGUSON

styx

HD webtv SET TOP BOX

- **WEB TV**
- **MULTIMEDIA CENTER**
- **SATELLITE RECEPTION IN HIGH DEFINITION**
- **PERSONAL VIDEO RECORDER (PVR) ready**



User's manual



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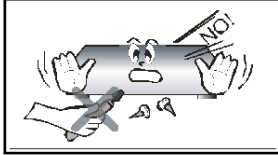
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I. GENERAL INFORMATION

1. Safety instructions

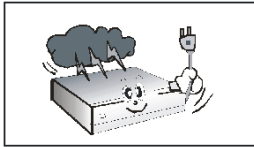
Please read the following safety precautions carefully.



Ensure that any repairs to your unit are carried out by qualified personnel. Opening the unit and attempting to repair it yourself voids all warranty claims!

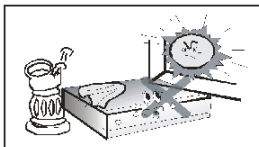
Do not interrupt the booting process this can lead to data loss and corruption of the software.

The unit may only be connected to the mains and turned on once it has been connected to the antenna and to the TV set.

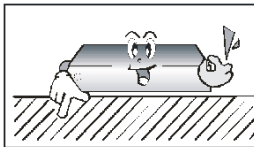


If you are away for an extended period, and during thunderstorms, always switch the unit off at the mains and unplug it from the socket.

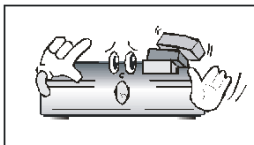
Disconnect the mains plug before cleaning the unit. Only use a dry cloth for cleaning and only clean the outer surface.



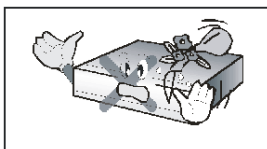
Do not place the unit close to a heater or expose it to direct sunlight and do not operate it in damp locations. Only use the unit in a moderate climate, not in tropical conditions!



Place the unit horizontally on a flat, even and stable surface. The unit should never be installed in a cupboard or on shelves with inadequate ventilation.



Do not place any objects on top of the unit. Never cover the cooling slots on the unit (i.e. with other equipment, magazines, tablecloths, clothing or curtains)! Otherwise the unit may overheat.



Protect the unit against moisture, dripping and splashed water (do not place any filled objects such as vases on top of the unit).

2. Package contents

Please check the package contents before using your product.

- Remote control. Remote control batteries (2 x AAA 1.5V)
- User's manual.
- HDMI cable.

I. GENERAL INFORMATION

3. Front panel



USB	USB 2.0 host connector.
POWER ON/OFF	To power off and to reboot.
CHANNEL -,+ KEYS	To change programs.
LCD DISPLAY	Displays the channel name/number & functions, in standby the time & date.
CARD READER	To insert a subscriber's card. Always insert the card with the chip facing up.
COMMON INTERFACE	To insert two conditional access modules.

4. Common interface



Some TV and radio programs are scrambled and are only available on a subscription basis. These scrambled programs can only be viewed with a conditional access module (CAM) and a subscription/pay-TV card of the scrambling system (Smartcard). Common interface is the slot on your device to insert the conditional access module. Your device has two common interface slots.

- Insert the subscription card into the conditional access module.
- Insert the conditional access module into the common interface slot on the front of your device.
- To view information's about the inserted conditional access module (CAM) and subscription card enter **Common interface** (**Settings** menu).

I. GENERAL INFORMATION

5. Rear panel



LNB IN	Input to connect a satellite antenna.
LNB OUT	Output to connect another digital receiver.
VIDEO	Composite Video output for television sets (CVBS).
AUDIO	Stereo audio outputs Left/Right.
MAINS	Mains ON/OFF switch.
ETHERNET	RJ-45 port 10/100Mbit.
HDMI	Digital Audio/Video output for high definition television sets.
USB	USB 2.0 host connector.
S/PDIF	Optical Dolby digital output.
VIDEO (Y/Pb/PR)	Component video outputs for television sets (green, blue, red).

6.1 Connecting the antenna



Connect your device to a satellite antenna to receive digital television. Connect the antenna to **LNB IN** - Input.

Connect another digital receiver to use the same satellite antenna. Connect the cable from the other receiver to **LNB OUT** - Output.

I. GENERAL INFORMATION

6.2 Connecting to your television

HDMI

Connect your device to a high definition television set using a HDMI (High Definition Multimedia Interface) cable to output digital video and audio.



If you have an amplifier with an HDMI Out/Input, which supports also audio over HDMI, connect the devices by two HDMI cable. One cable to the amplifier and the other cable from the amplifier to the television set.



I. GENERAL INFORMATION

Component (Y/Pb/Pr)

Connect your device to a high definition television set using a component video cable (Y-green, Pb-blue, Pr-red) to output video. To output audio connect the audio cable (red-audio right, white-audio left) from your device to the television or audio system.



Video (Composite CVBS)

Connect your device to a standard television set using a video cable to output video (CVBS). To output audio connect the audio cable (red-audio right, white-audio left) from your device to the television or audio system.



I. GENERAL INFORMATION

6.3 Connecting audio

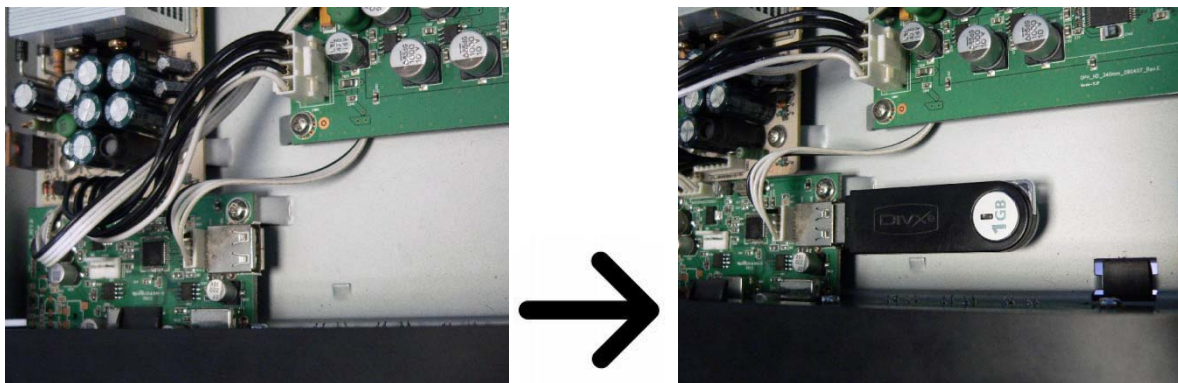
To enjoy Dolby digital audio, your television or audio system must be able to decode Dolby digital audio. Connect your device to your television or audio system with an optical S/PDIF cable.



6.4 Connecting USB 2.0

Your device has 3 USB 2.0 (1 x rear, 1 x front, 1 x internal) host ports to connect memory devices (memory stick, external hard disk) formatted in **FAT32**, **EXT2**, **EXT3**, **NTFS**.

Connecting an internal USB memory device.



NOTE: For USB memory devices formatted in NTFS your device can only playback files (movies, MP3s, pictures). Recording is not possible.

NOTE: If you connect the USB memory to the internal front port, you have to open the cover and void the guarantee.

I. GENERAL INFORMATION

6.5 Connecting to your network



Ethernet RJ45 connector

Connect your device to the network with an Ethernet cable.

NOTE: To operate all features of your device connect your device to your network via a **Router** which is connected to the **Internet**. If you cannot connect to your network or if **'Connection failed!'** is displayed for network features check again the address and the network connection and try again.

7. Inserting the batteries

Insert the batteries (2 x AAA 1.5V) into the remote control unit according to the polarity.

8. Powering On/Off

Power ON/Booting

Connect the power cord of your device to a mains socket. Turn **On** the mains switch on the rear panel to start the booting.

Standby

Press the **STANDBY** key to switch between **standby** and **operation** mode. Timer recordings will record in this mode.

Deep Standby

Hold the **STANDBY** key pressed for **5 seconds** to switch to the **Deep Standby** mode. To switch again to operation mode, press the **STANDBY** key again. Timer recordings will not record in this mode.



I. GENERAL INFORMATION

9. Remote control functions



STANDBY

Switch between operation and standby/deep standby mode and to boot.



VOL+/VOL-

Adjust the audio volume.



CH UP/DOWN

Change channels (next/previous).



UP/DOWN

- **TV**: Change channels (next/previous).
- **MENU**: Navigate in the menus.



LEFT/RIGHT

- **TV**: Adjust the audio volume.
- **MENU**: Navigate in the menus and select options.



OK

- **TV**: Enter the list mode.
- **MENU**: Select options.



PAGE UP/DOWN

Scroll a page or list up and down. To scroll continuously hold the key.



MUTE

Turn the sound on/off.



TV/RADIO

Change between TV and Radio mode.



LAST

Return to the previous channel.



NUMERIC KEYS

- **TV**: Enter a channel number directly.
- **MENU**: Enter values.

MENU

Enter/exit the menu and save changes in menus.

EXIT

Exit all menu modes.

I. GENERAL INFORMATION



styx TV
Enter/exit **styx TV**.



styx WEB
Enter/exit **styx web**.



EDIT & CI
Enter/exit the edit menu.



EJECT
Eject the USB memory.



styx MEDIA
Enter/exit **styx media**.



These coloured keys have different functions as displayed in the menus.

USER

Enter/exit and edit user lists.

EPG

Enter/exit the program guide.



INFO
Enter/exit information about the program, movies/recordings.

TEXT

Enter/exit Teletext.

ZOOM

Enter/exit the zoom mode.

FREEZE

Pause a live program.

RES

Change the screen resolution.

FEED

Select a Multifeed.

LANG

Select audio languages and encode the text for movie subtitles.

SUBT

Select subtitle languages for programs and display the subtitle for movies.

AUDIO

Select audio channels.



RECORDING

Record a program and select the duration.



PLAY

Start playback.



PAUSE

- Start the Timeshift recording.
- Pause playback.



STOP

Stop playback.



SLOW MOTION

Playback in slow motion. Each time you press this key the speed will increase (**10%**, **30%**, **50%**).



REWIND / FORWARD

Each time you press this key the rewind/forward speed will increase (**2**, **4**, **8**).



JUMP

Jump back or forward during playback.

II. FIRST INSTALLATION

1. First installation

After you turned on your device for the first time or after a factory reset, the installation wizard will start automatically.

2. Operating the menu

- Select an option with the ▲/▼, ◀/▶ keys.
- Enter an option with the **OK** key.

3. Language selection

Menu language	Select the menu language.
----------------------	---------------------------

Audio language	Select the standard audio language for programs.
-----------------------	--

Press **MENU** key to save the selection and to continue to the satellite search.

4. Satellite search

Satellite	Select a satellite.
------------------	---------------------

Transponder	Select a transponder.
--------------------	-----------------------

LNB	Select the LNB frequency.
------------	---------------------------

22Khz	Select On or Off .
--------------	----------------------------------

DiSEqC	Select the DiSEqC (A, B, C, D)/ Mini A, B port for the selected satellite.
---------------	--

DiSEqC 1.1	Select the DiSEqC port (1-16) for the selected satellite.
-------------------	--

LNB Power	Select the LNB power.
------------------	-----------------------

Search	Press  key to start the search.
---------------	--

Search options

➤ All/FTA/NIT/FAST SCAN	Select an option to start the search.
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➤ DiSEqC/USALS	Select this Option to search all satellites (DiSEqC switch) at one time.
----------------	---


NOTE	Press EXIT key to install an Unicable/SCD / DiSEqC 1.2/USALS system.
-------------	--

III. DAILY USAGE


1. Volume control

Volume	Press VOL+/VOL- or ◀/▶ keys (while watching a program) to adjust the volume.
Mute	Press MUTE key to turn the sound On and Off .



2. Changing channels

Change	Press CH. UP/DOWN , ▲/▼ keys or enter the channel number with the 0-9 numeric keys to change channels.
Back	Press LAST  key to return to the previous channel.

3. Channel lists

Press OK key to display all satellite/user lists and sort options .	
Operation	Select columns with the ◀/▶ keys and select a sort option or channel with the ▲/▼/OK keys.
Search channel	<ul style="list-style-type: none">➤ To search a channel name, enter first the channel list and enter the channel name with the Numeric keys.➤ You can search for a search term with max. 7 letters.➤ The search term is displayed in the 1st column at the bottom.➤ Press the  key to delete a letter

4. User lists

Press USER key to display the 10 user lists.	
List	Select a column with the ◀/▶ keys and select an option or channel with the ▲/▼/OK keys.
Rename	Select a list and press  key to rename.
Edit	Press  key to edit.

5. Zoom mode

Press ZOOM key to enlarge a part of the screen.	
Move the Zoom window with the ▲/▼ , ◀/▶ keys to the part of the screen to enlarge.	

6. Audio language

TV	Press LANG key to select an audio language, if available. Select a language with the ▲/▼/OK keys.
Movies	<ul style="list-style-type: none">➤ Press LANG key to select the matching subtitle text code to display all letters correctly.➤ Select the text code from the list with the ▲/▼/OK keys.

7. Freeze mode









Press FREEZE key to pause a live program.	
--	--

III. DAILY USAGE

8. Information bar

Press **INFO** key to display the channel number & name, list name, time.

The current and next program information, if available, will be displayed. If detail information is available, press **INFO** key again to display them.






	is displayed for programs in High Definition.
	is displayed, if subtitle languages are available.
	is displayed, if Teletext is available.
	is displayed, if Multifeeds are available.
	is displayed for locked channels.
	is displayed for pay TV channels.
	is displayed for programs in Dolby Digital.
	displays the audio channels (mono, stereo).
SIGNAL	displays the signal quality and strength.

9. Screen resolution

Press **RES** key to change the screen resolution.



- TV**
- Change the screen resolution (**1080i-50Hz/60Hz, 720p-50/60Hz, 576p-50Hz, 480p-60Hz**) as the TV system (**50Hz=PAL, 60Hz= NTSC**).
 - Select the resolution with the **▲/▼/OK** keys.
 - If the TV is connected with a Video cable, select **Scart-PAL** (PAL TV) or **Scart-NTSC** (NTSC TV).

Movies & VLC streams.

	Full Screen.
	Cinema (Wide Screen).
	Original.
	Low Screen for low resolution movies.
	IPTV Screen for IPTV streams.





10. Audio channel

Press **AUDIO** key to select an audio channel (**stereo, mono left/right**).

	Stereo.
	Left/right channel (Mono).

III. DAILY USAGE

11. Teletext

Press **TEXT** key to display Teletext, if available. Operate the menu with the **0-9 numeric** and coloured (   ) keys.

12. Edit channels, Common Interface, event list

Press  key to display detail information about the channel.

Lock	Select On to lock the channel.
-------------	---------------------------------------

Descramble with	If 2 CAMs or a card are inserted, preset the channels to the specific CAM or card for a faster decoding. Select the Slot (Slot (Card), Slot 1, 2) to descramble (only satellite channels).
------------------------	--

Save	Press MENU key to save the changes.
-------------	--

Delete	Press  key to delete the channel.
---------------	--

Event list	Press  key to display the event list for all recordings and reservations. Select an event with the ▲/▼ keys. Press  key to delete an event, press  key to delete all events.
-------------------	---

13. Photos/Picasa/Flickr radio soundtrack

Enter **styx media** in radio mode to view **Photos, Picasa** and **Flickr** with radio as soundtrack.

14. Jump time

Press the **Jump** keys to jump from a movie position backwards or forwards. Select the jump time (**1-10 min.**) with the **▲/▼** keys.

15. Multifeed

Some programs offer a variety of perspectives i.e. for sport events, these are called **Multifeeds**. Press **FEED** key to display Multifeeds for a program, if available. Select a feed with the **▲/▼/OK** keys.

16. Subtitle language





TV	Press SUBT key to select subtitle languages, if available. Select a language with the ▲/▼/OK keys.
-----------	--

Movies	<ul style="list-style-type: none">➤ Supported formats: SRT, SMI, SUB.➤ Press SUBT key to display subtitles. Press this key again to deactivate subtitles.➤ If the subtitle and movie are asynchronous, synchronize the subtitle time. Press the ◀/▶ keys and adjust the time from -5 seconds to +5 seconds in 0.1 second steps.
---------------	---

NOTE	<i>To display movie subtitles, the subtitle and menu language must be the same and the movie file and subtitle file must have the same title.</i>
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IV. PROGRAM GUIDE (EPG)

17. Edit/search window

Select the edit/search window to rename (user lists, channels, recordings), to insert (address, password, username) and to enter a search term.	
Letter	Select a letter with the ▲/▼/OK keys.
Delete	Press  key to delete a letter.
A/a/...	Press  key to change between capital/lower case letters and to display special letters for a language.
Save	Press  key to save.
Cancel	Press  key to cancel.

IV. PROGRAM GUIDE (EPG)

1. Program guide

Press EPG key to display the electronic program guide for current, next and scheduled programs.	
Now/next schedule.	
<ul style="list-style-type: none"> ➤ Select a channel with the ▲/▼ keys to display the <i>now/next</i> schedule. ➤ Enter the <i>now/next</i> schedule with the ◀/▶ keys. ➤ Press OK key to change to the program. ➤ Press OK key again to watch it in full screen. ➤ Press INFO key to display detail information, if available. 	
Week schedule.	
<ul style="list-style-type: none"> ➤ Select a program with the ▲/▼, ◀/▶ keys. ➤ Press the OK or INFO key to display detail information, if available. 	
Reserve	Press  key to reserve programs (TV or Radio) to change to this program at the scheduled time.
➤ Mode	Select an option (<i>once, daily, weekly, daily (Mon-Fri)</i>).
➤ Date	Enter the date with the 0-9 numeric keys for programs without EPG schedule.
➤ Begin	Enter the start time with the 0-9 numeric keys for programs without EPG schedule.
Press MENU key to save the event.	
Record	Press  key to set the timer for recordings.
Week	Press  key to switch between the <i>now/next</i> and week schedule of the selected channel.
Event list	Press  key to display the <i>event list</i> for all recordings and reservations. 20 Timer events (recordings and reservations) can be programmed.
➤ Delete	Select an event with the ▲/▼ keys. Press  key to delete.
➤ Delete all	Press  key to delete all events.

V. RECORDING

1. Recording guide


USB memory

- To record programs an USB memory 2.0 must be connected formatted in **FAT32, EXT2, EXT3**.
- To format an USB memory larger than 32GB with your windows PC in **FAT32**, download the **Fat32Formatter** program from the internet to your PC.
- To record HD programs the USB memory must have a minimum writing speed of 20 Mbps. It is recommended to record HD channels to a USB hard disk.

NOTE

- *Ensure that there is enough free memory before recording. The recording will not start, if there is not enough free memory.*
- *Do not disconnect the USB memory from the device during recording or playback as this could cause damage to the device and/or USB memory.*
- *Highly fragmented or used memory may also not operate properly.*
- *Recording to an USB memory formatted in NTFS is not possible.*

USB Eject

Press the  key to eject the connected USB memory. Always use this option before disconnecting an USB memory. This function allows you to safely remove an USB memory connected to your device to prevent loss of data.

Channel change

You can watch channels while recording one program of the same frequency. If the recorded channel is not scrambled (FTA) you can select any other channel to watch. If the recorded channel is scrambled, you can only select and watch not scrambled channels.

- Press **CH UP/DOWN** keys to change channels.
- Press **OK** key and select a channel with the **▲/▼/OK** keys.

Standby

- Press **STANDBY** key during a recording to switch the device to standby mode after the recording is finished.
- For timer recordings, the device will switch to operation mode and start recording at the specific time. After the recording is finished, the device will switch back to standby mode (**after 1 minute**).

Timer	20 Timer events (recordings and reservations) can be programmed.
TV/Radio	Record TV and radio programs.
Playback	Enter Recordings (styx media) to playback recordings.

V. RECORDING


2. Instant recording

Recording	Press RECORDING key to start the recording.
Duration	<ul style="list-style-type: none">➤ The duration as set in <i>Multimedia</i> (<i>User</i> menu) is displayed.➤ Press the ▲/▼ keys to change the duration (<i>max. 240 min.</i>) in <i>10 min. steps</i>.
Stop	Press STOP/EXIT keys to stop a recording.

3. Timeshift recording

Timeshift enables you to record and playback a program you are watching, while it is still being broadcasted.	
Start	<ul style="list-style-type: none">➤ Press PAUSE key to start the Timeshift recording and to pause the program.➤ Press PLAY key to start the playback.
Stop	The recording stops, if you change to another channel, or if you press STOP/EXIT keys.
Playback	Press the REWIND/FORWARD/SLOW MOTION/JUMP keys to playback the recorded part.
Duration	The duration as set in <i>Multimedia</i> (<i>User</i> menu) is displayed (<i>max. 180 min.</i>).
File	The Timeshift recording is stored in the TimeShift file in <i>Recordings</i> .

4. Timer recording

<ul style="list-style-type: none">➤ Press EPG key to program a timer.➤ Select a channel or program and press  key.	
➤ Mode	Select an option (<i>once, daily, weekly, daily (Mon-Fri)</i>).
➤ Date	Enter the date with the 0-9 numeric keys for programs without EPG schedule.
➤ Begin	Enter the start time with the 0-9 numeric keys for programs without EPG schedule.
➤ Duration	Select the duration (min. <i>10 min.</i> , max. <i>240 min.</i>) for a recording.
Press MENU key to save the event.	

VI. MENU

1. Operating the menu


Menu	<ul style="list-style-type: none"> ➤ Select an option with the ▲/▼, ◀/▶ keys. ➤ Enter an option with the OK key.
Values	<ul style="list-style-type: none"> ➤ Change values with the ◀/▶ keys. ➤ Insert values with the 0-9 numeric keys. ➤ Enter the edit window.

2. INSTALLATION

2.1 Antenna

Select the Antenna type .	
Fixed	Select this option for a fixed antenna.
DiSEqC 1.2	Select this option for a DiSEqC 1.2 motor.
USALS	Select this option for an USALS motor. Enter the longitude (East/West) and latitude (North/South) of your location.
Unicable/SCD	Select this option for a Single Cable Distribution Antenna to deliver broadcast over a single cable to multiple users. <ul style="list-style-type: none"> ➤ Select the user Band B1-B8. ➤ Select the Band frequency.
Press MENU key to save.	


2.2 Satellite search

Satellite	Select a satellite.
Transponder	Select a transponder.
LNB	Select the LNB frequency.
22Khz	Select On or Off .
DiSEqC	Select the DiSEqC (A, B, C, D)/ Mini A, B port for the selected satellite.
DiSEqC 1.1	Select the DiSEqC port (1-16) for the selected satellite.
Satellite position	This option is activated, if you selected Unicable/SCD antenna in the Antenna menu . Select the position. <ul style="list-style-type: none"> ➤ P1: User band B1, B2, B3, B4 ➤ P2: User band B5, B6, B7, B8.
LNB Power	Select the LNB power.
Search	Press  key to start the search.



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Search options	
➤ All/FTA/NIT/FAST SCAN	Select an option to start the search.
➤ Transponder	Select this option to add, edit or search transponders.
➤ DiSEqC/USALS	Select this option to search all installed satellites (DiSEqC, DiSEqC 1.2 & USALS) at one time.
➤ PID	Select this option to edit PIDs.


2.2.1 Edit satellite

Satellite	Select a satellite. If a satellite is missing, select a user define satellite (Others) and enter the name.
Edit	Press the  key to enter a new name or to rename a satellite.
Position	Enter the position.

2.2.2 Transponder search

Satellite	Select a satellite.
Frequency	Select the frequency or insert a new one.
Symbol rate	Insert the symbol rate.
Polarization	Select the polarization (horizontal/vertical).
DVB	Select the transmission (DVB-S/DVB-S2).
Modulation	Select the modulation for DVB-S2 (QPSK/8PSK).
FEC	Select the FEC value for DVB-S2. For DVB-S select auto .
Pilot	Select the Pilot function for DVB-S2.
Search	Press  key to start the search.
Search options	Select an option (FTA/NIT/Transponder) to start the search.
Edit	Press  key to edit a transponder.
Save	Press MENU key to save the edited/new transponder.

2.2.3 DiSEqC/USALS-Multi search


Satellite	Select the installed satellites (DiSEqC switch, DiSEqC 1.2 motor/USALS motor) with the ▲/▼/OK keys.
Search	Press  key to search all selected satellites at one time.

VI. MENU

2.2.4 Edit PID

Satellite	Select a satellite.
Transponder	Select a transponder.
Channel	Rename/name the channel.
Video PID	Enter the Video PID.
Audio PID	Enter the Audio PID.
PCR PID	Enter the PCR PID.
Save	Press MENU key to save the changes.

2.3 DiSEqC 1.2

Satellite	Select a satellite.
Transponder	Select a transponder.
Go to position	Press OK key to move the motor to the stored position.
Move	Press the ◀/▶ (<i>West/East</i>) keys to move the motor to the desired position/limits.
Steps	Select the motor steps (<i>1-127</i>).
Move in steps	Press the ◀/▶ (<i>West/East</i>) keys to move the motor in the selected steps.
Save position	Save the selected satellite position.
Save limits & options	
➤ East/West limit	Select this option to save the limits.
➤ Delete	Select this option to delete the stored limits.
➤ Recalculate	Select this option to recalculate the positions of the satellites based on one satellite position and to re-adjust them.
➤ Go to center	Select this option to move the motor to the center.
Save	Press MENU key to save the Motor settings and enter the Satellite search menu to start the search.
Search	Press  key to enter the search menu.

2.4 USB update

Download	Download the latest system software to your PC from www.ultrapower.co.nz and transfer the file to an USB memory.
USB	Connect the USB memory to your device.
Start	Enter this menu option to start the update.
Reboot	After an update the set will automatically shutdown. Reboot the set after the shutdown.

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2.5 Network update

Update your device with the latest system software via the Internet.	
Network update	Select Network update to update your device with the latest software version.
Patch	Select a Patch (game patch , link patch , charts patch) to download.
Game roms	Download the game roms (Arcade games).
Reboot	After an update the set will automatically shutdown. Reboot the set after the shutdown.
NOTE	<ul style="list-style-type: none">➤ <i>The patches downloaded from the internet are the user's responsibility.</i>➤ <i>Download of the game patch (50MB) will take 3-5 min. depending on your internet speed.</i>➤ <i>Download of the game roms (300MB) will take 20-30 min. depending on your internet speed.</i>

2.6 Factory reset

Reset all channel data to the device factory settings. All stored channels, lists and settings will be deleted.
<i>It is recommended to make a factory reset after you updated your set via network or USB. Before you make a factory reset, export all data to the USB memory with the export data function (chapter 5.4) and import them again after the factory reset. In case the data cannot be imported, setup your set again.</i>

3. SETTINGS

3.1 Network connection

During booting your device will connect automatically to the network.	
Auto	To connect automatically by DHCP.
Manual	To connect manually with a static IP address.
➤ IP	Enter the fixed IP address.
➤ Subnet mask	Enter the subnet mask address. In general it is 255.255.255.0.
➤ Gateway	Enter the router's IP address.
➤ DNS Server	Enter the DNS Server's IP address. In general it is the router's IP address. You can enter 2 DNS Server IP addresses.
Press MENU key to connect.	

VI. MENU

3.2 styx share

Stream movies, MP3s, photos (*only supported formats*) from your PC **Shared Documents Folder** to the device in your local network.

Enter **styx share** (**Settings** menu) to connect.

➤ Windows	Select the PC Windows system (<i>XP/Vista/Windows7</i>).
➤ PC IP address	Enter the IP address of your PC. If required enter a Username/Password .
➤ PC Folder name	Select the name of the Shared documents folder . ➤ XP: Shared/SharedDocs . ➤ Vista: Public . ➤ Windows 7: Users .

Press **MENU** key to connect.

In case a connection cannot be established check your PC settings.

- Enter the shared documents folder settings and activate the option: **share this folder in the network**.
- Enter the LAN (Local area network) settings and activate the option: **File and Printer Sharing for Microsoft Networks**.
- Check the shared documents folder names (**XP-Shared/SharedDocs, Vista-Public, Windows 7-Users**). If the folder name is different, create a new shared folder with the required name and activate the options to share the folder in the network.

3.3 Television

Screen format	Select the screen format (Auto, Pan & Scan, 4:3/Letterbox).
Menu transparency	Select the transparency (50%-100%).
Information bar	Select the automatic display time of the information bar for TV, movies, recordings. If you select Off , the information bar will not be displayed.
Dolby Digital	Select On to output dolby digital audio via S/PDIF.
CI message	Select On to display messages of the CAM and card. If you select Off , the messages will not be displayed.

3.4 Software version

The device software, hardware version and the date of the last update are displayed. Press **OK** key to check if a new software update is available.

3.5 Card reader

View information about the inserted subscriber's card.

VI. MENU

3.6 Common interface

View information about the Conditional access module.	
Slot	The installed modules for Slot 1 (bottom) and Slot 2 (top) are displayed.
Menu	Enter the card menu for details.

4. USER

4.1 Menu & audio language

Menu language	Select the menu language.
Audio language	Select the standard audio language for programs.

4.2 Time & date

Mode	Select an option (auto/manual).
Date	Enter the date manually.
Time	Enter the time manually.
UTC	Select your local zone.
Summer Time	Select the option (On/Off).
Sleep time	Set the time to turn off your device automatically.
Wake up time	Set the time to turn on your device automatically.

4.3 PIN code

PIN	The 4 digit PIN code is initially set to 0000 .
Change	Enter the New PIN code twice for confirmation and the Current PIN code to change the PIN code.
NOTE	<i>Contact your local dealer, if you forgot your PIN code.</i>

4.4 Menu & channel lock

Menu lock	Select On to block the access to the MENU .
Channel lock	Select On to lock channels.









4.5 Multimedia

Recording duration	Select the preset recording duration (max. 240 min.).
Timeshift duration	Select the preset Timeshift recording duration (max 180 min).
Jump time	Select the preset jump time (max 10 min).
EXT 2 formatting	Format the USB memory in EXT2 format.
Recording/download device	Select the connected USB memory to record and to download files.






VI. MENU

5. CREATE & EDIT

5.1 Edit channel

Delete	Press  key delete a channel.
Lock/unlock	Press  key to lock/unlock a channel.
Move	Press  key to move the position of a channel or multiple channels at once. <ul style="list-style-type: none">➤ Press  key to select a channel or multiple channels.➤ Press  keys to select the new position.➤ Press  key to move the channel/channels.➤ Press OK key to preview a channel.
Rename	Press  key to rename a channel.
List	Select a channel list with the  keys.
Channel	<ul style="list-style-type: none">➤ Enter the channel number.➤ Press OK key to preview a channel.

5.2 Edit user lists

Edit the 10 user lists .	
List	Move between columns with the  keys and select an option or channel with the  keys.
Rename	Select a list and press  key to rename the user list.
Edit	<ul style="list-style-type: none">➤ Select a list and press  key to edit.➤ Select a list option (1st column) to display (2nd column).➤ Select a channels and press OK key to copy the channel to the user list (3rd column).➤ Enter the list and press OK key to delete a channel from the user list.➤ Press  key to watch a channel.

5.3 Delete satellite & transponder

Select a satellite or transponder to delete.
--

5.4 Export/Import data

Save your settings to an USB memory and export/import them i.e. after a factory reset.
Stored settings: All SAT/TP data and antenna settings (LNB, DiSEqC, Motor, etc.), all channel lists (Satellite/User lists), all settings from the Settings and User menu.
Export data Select this option to export the data with the option to rename the file.
Import data Select this option to import the data.

VI. MENU

5.5 styx-i

styx-i is an interface to connect your device via network with your PC.

- Edit satellite & user lists from your PC.
- Browse the directories of the connected USB memories to copy & delete files.
- Stream live channels from your device to your PC (*coming soon*).

Enter the **styx-i** menu to operate the **styx-i** program from your PC.

5.6 styx-i program

Download the **styx-i** program from www.ultrapower.co.nz to your PC and unzip the file.

NOTE *Activate the **styx-i** menu of your device to operate the **styx-i** program from your PC.*

5.6.1 Channel editor

Connect	Open File - Connect to STB . Enter the IP address of the device.
Import data	<ul style="list-style-type: none">➤ Import the data directly from your device via the styx-i menu.➤ Export the data (chapter 5.4) to a USB memory and import/copy the file to your PC (open File - Import data).
Select channels	Press CTRL key to select a channel/channels in a list.
Edit sat lists	Right-click the mouse over a Satellite, transponder, channel to edit.
Edit user lists	<ul style="list-style-type: none">➤ Copy: To copy channels to a User list select the channels and click on the << icon.➤ Delete: To delete channels click on the X icon.
Move channel position	Select a channel in a list and press CTRL key and use the UP/DOWN keyboard keys to move the channel position.
Channel number display	Open Edit - Channel number display to change the displayed number of channels in a list and enter the channel numbers (min. 10 , max. 30 channels).
Export data	<ul style="list-style-type: none">➤ Open File - Update STB to export the data from the PC to your device via the styx-i menu.➤ Open File - Export data to export the file to a USB memory and import/copy the file to your device.

5.6.2 USB file browser

Connect	Open Edit - File Brower . Enter the IP address of the device.
PC	Browse the directories of your PC.
Disk	Browse the directories of the USB memories connected to your device.
>> /<<	Copy files between your PC and USB memory.
Delete	Select a file and right click with the mouse to delete.

VII. styx MEDIA

1. Operating the menu

- Select a menu option with the ◀/▶ keys.
- Select an option file/folder with the ▲/▼/OK keys.

Press the  key to change between **styx share** and **USB memory**.



Browse the directory of the **USB memory**.




Browse the directory of the **shard documents folder** of the connected PC. Enter **styx share** (**Settings** menu) to connect to your PC.

NOTE

*To enter **styx media** an **USB memory** must be connected or the device must be connected via the network with the PC.*




2. Media guide

 Status	Displays the memory status (USB/PC).
Preset folders	
➤ styx_records	Recordings are saved in this folder.
➤ download	Downloaded files are saved in this folder.
➤ youtube	YouTube videos & thumbnails are saved in this folder.
➤ youporn	YouPorn videos & thumbnails are saved in this folder.
➤ thumbnail	Thumbnails from the photo menu are saved in this folder.
➤ jamendo	Jamendo Top 100 MP3s & thumbnails are saved in this folder.
NOTE	<ul style="list-style-type: none"> ➤ <i>For USB memory devices formatted in NTFS your device can only playback files (movies, MP3s, pictures).</i> ➤ <i>A file cannot start playback, if the file name has more than 55 letters or too many punctuation. In this case, shorten the file name.</i> ➤ <i>Delete from time to time files which you are not using anymore in the preset folders, i.e. YouTube, YouPorn, Jamendo, thumbnail images.</i>



3. Recordings & movies

Recording format	Trp.
Movie formats	MPEG-4 recordings (.trp), DivX/Xvid (.avi, .divx), FLV (.flv), PAL (50Hz) VOB (.vob), PAL (50Hz) MPEG-2 (.mpg, .m2v, .ts, .trp).
Playback	
➤ Preview	Select a movie or recording and press OK key.
➤ Full screen	Select a movie or recording and press OK key twice or PLAY key. Press STOP/EXIT keys to stop.




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➤ Details	Press INFO key to display the title, present & total playtime.
Edit movies/recordings & folders	
➤ Sort	Press  key to sort (A-Z/Z-A, Date).
➤ Delete	Press  key to delete.
➤ Lock	Press  key to lock/unlock a folder or a recording .
➤ Rename	Press INFO key to rename a recording .
NOTE	<i>For YouTube videos and some video files rewind/forward, Jump, slow motion does not work.</i>
Playback of TRP recordings	
➤	To play SD or HD TRP (.trp) files recorded by other devices, select the matching codecs.
➤ Video Codec	Select between SD and HD Recordings.
➤ Audio Codec	Select between MPEG, AC3 and DDPLUS (Dolby Digital Plus).
NOTE	<i>Your set will reboot, if you selected the wrong video codec.</i>

4. Music

Format	MP3.
Playback	Select a song and press OK key. Press STOP key to stop.
Playlist	<ul style="list-style-type: none"> ➤ Press PLAY key to playback the songs of a folders. ➤ Press JUMP keys to select the previous/next song. ➤ Press STOP key to stop.
Sountrack	Enter Photo Menu, Flickr, Picasa with MP3 songs as soundtrack.
Edit MP3 & folders	
➤ Sort	Press  key to sort (A-Z/Z-A, Date).
➤ Delete	Press  key to delete.




5. Photos

Format	JPG.
Full screen	
➤ List	Select a photo and press OK key to preview the photo. Press OK key again to view the photo in full screen.
➤ Thumbnails	Select a photo and press OK key to view the photo in full screen.
➤	Select the next/previous photo with the   keys.
Thumbnails/ list	Press  key to change between thumbnails and list mode.
Slideshow	Press PLAY key to start the slideshow of a folder. Press STOP/EXIT keys to stop.


VII. styx MEDIA

Edit Photos & folders	
➤ Sort	Press  key to sort (A-Z/Z-A, Date).
➤ Delete	Press  key to delete.



6. Shoutcast

Shoutcast	Stream more than 25.000 Internet radio stations.
Streaming	Select a station and press OK key. Press STOP key to stop.
List	Press  key to display the genre. Select a genre and press OK key.
Search	Press  key to search for a radio station.
Sort	Press  key to sort (A-Z/Z-A).
Sountrack	Enter Photo Menu, Flickr, Picasa with Shoutcast as soundtrack.

7. Jamendo

Jamendo	Stream more than 1.700 Jamendo Internet radio stations.
Streaming	Select a station and press OK key. Press STOP key to stop.
Sort	Press  key to sort (A-Z/Z-A).
Sountrack	Enter Photo Menu, Flickr, Picasa with Jamendo stations as soundtrack.

8. Flickr & Google Picasa


Photos	View photos from Flickr & Google Picasa.
Search	<ul style="list-style-type: none">➤ Press  key.➤ Enter the search term.➤ Press  key to save and to start the search.
List	<ul style="list-style-type: none">➤ Select a photo with the ▲/▼ keys.➤ Press OK key for full screen mode and press EXIT key to abort.➤ Scroll pages with the PAGE ▲/▼ keys.
Picasa	Select the next and previous photo of an album in full screen mode with the ◀/▶ keys.

9. musicbox


9.1 Top single charts

Play & download MP3 Songs from the internet, if available.	
Patch	Download the charts patch in Network update (Installation menu) to activate this function.

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Charts	Press  key to select the Top charts of a country.
MP3	<ul style="list-style-type: none"> ➤ Select a Song and press OK key to start the download. ➤ Press PLAY key to play the Song. ➤ Press STOP key to stop.
NOTE	<i>musicbox provides links to other sites/servers on the Internet to download media. musicbox has no control over copyright violation of the media and is not responsible or liable for any contents.</i>









9.2 Jamendo TOP 100

Play & download MP3s from the Jamendo Top 100 chart.	
Jamendo	Press  key to enter the Jamendo Top 100 MP3 chart.
MP3	<ul style="list-style-type: none"> ➤ Select a Song and press OK key to start the download. ➤ After the song is downloaded it will start to play. ➤ Press STOP key to stop.

10. Acrcade Games

Patch	Download the game patch in Network update (Installation) menu) to activate arcade games.
Game roms	Download the game roms in Network update (Installation) menu) to play games.
Info	Press INFO key to display the instruction how to play games.
Exit	After you exit the game mode the set will reboot.
NOTE	<ul style="list-style-type: none"> ➤ <i>Timer recordings will not start in game mode.</i> ➤ <i>The external game patch and game roms are only meant for those users who are legally entitled to its proper use.</i>

How to play games

Remote keys	Function
	Enter game (left + right).
	Confirm game.
	Insert coin.
	Select player, Start game.
	Exit game.
	Move up/down, left/right.
	Play buttons A, B, C, D, E.
	Game settings.

VIII. styx WEB

1. Operating the menu

Select an option with the ◀/▶, ▲/▼ / OK keys.

Scroll pages with the ▲/▼ and PAGE ▲/▼ keys.

To enter **styx web** your device must be connected with the internet.






2. styx news

Information about latest updates and other news are displayed.

3. RSS

Integrated RSS news feeds in multiple languages are displayed.

4. Twitter

Twitter	Display and send Twitter tweets.
Search	<ul style="list-style-type: none">➤ Press OK key to display the search window.➤ Enter the search term.➤ Press  key to start the search.
Write	<ul style="list-style-type: none">➤ Press  key to write a tweet.➤ Press  key to enter your username.➤ Press  key to enter your password.➤ Press  key to write a message of 140 characters or fewer.➤ Press OK key to send the message.
NOTE	<i>You need a twitter account to send messages. To set up an account enter www.twitter.com.</i>

5. Weather

Weather forecasts for regions, countries (7 days) and cities (4 days) are displayed.

6. Advertising

Advertising, if available, is displayed.

7. World Time

The current time for cities in different time zones is displayed.

IX. styx TV


1. Operating the menu



- Select an option with the ◀/▶ keys and **OK** key to enter.
- Select an option, file/folder with the ▲/▼/OK keys.
- Enter a value with the the **0-9 numeric** keys.

NOTE *To enter styx TV an USB memory must be connected.*

2. YouTube & XXX (YouPorn)

Playback YouTube & YouPorn videos.

- | | |
|-------------|---|
| List | <ul style="list-style-type: none">➤ Press  key to display the categories and time periods.➤ Select the time period.➤ Scroll pages with the PAGE ▲/▼ keys. |
|-------------|---|

- | | |
|---------------|--|
| Search | <ul style="list-style-type: none">➤ Press  key.➤ Enter the search term.➤ Press  key to save and to start the search. |
|---------------|--|

Playback

- | | |
|---------------|--|
| ➤ Preview | Select a video and press OK key. |
| ➤ Full screen | <ul style="list-style-type: none">➤ Press PLAY key or OK key twice.➤ Press STOP/EXIT keys to stop. |
| ➤ Details | Press INFO key to display the title, present & total playtime. |

NOTE *No audio is available for YouTube Videos, if your TV does not support an audio sample rate of 22Khz via HDMI. In this case, connect the set via Components video and audio L/R to output video and audio.*

3. moviebox & styx net

styx net	Share movies, MP3s, photos (only supported formats) with your family and friends in your network or via the internet between your device and PC/FTP servers.
-----------------	---


moviebox	Play & download movies from the internet, if available.
-----------------	---

NOTE *A download of a file with **styx net** cannot start, if the file name has more than 55 letters or too many punctuations. In this case, shorten the filename.*



3.1 Download guide

Download	Select a file and press OK key.
Stop	Press OK key again to stop.
Continue	Press OK key again to continue the download from the already downloaded part.

IX. styx TV

Status	100% is displayed when the download is complete.
Delete	Press  key to delete.
Playback	Press PLAY key to start playback during download. Press STOP/EXIT keys to stop.
Pause	Press PAUSE key to pause.
Details	Press INFO key to display the title, present & total playtime.
Screen	Press RES key to change the screen format of a movie.
NOTE	<i>Play & download of a movie depends on your internet connection. Start playback after you downloaded more than 20%. If you have a slow connection, start playback after you downloaded more than 50%.</i>

3.2 moviebox

Patch	Download the <i>Link patch</i> in <i>Network update (Installation)</i> menu to activate moviebox .
Movies	Press  key. Select a language with the ▲/▼/OK keys.
XXX	Press  key to enter.
NOTE	<i>moviebox provides links to other sites/servers on the Internet to download media. moviebox has no control over copyright violation of the media and is not responsible or liable for any contents.</i>

3.3 styx net

FTP	<ul style="list-style-type: none">➤ Press OK key to enter the IP address of the <i>FTP server</i> and if required the <i>Username/Password</i>.➤ Press MENU key to connect.
Directory	Browse the directory with the ▲/▼, OK keys.
Download	Press OK key.
PC	To have access to a PC install a FTP server program on the PC.

4. VLC Media Player

Stream video/audio from a PC in your network or via the internet with VLC Media player (<http://www.videolan.org>).

- Stream *movies*, i.e. movie formats which are not supported by your device or which cannot be played back.
- Stream *Webcams & TV cards, Internet TV & PSP*.

4.1 Operating the menu

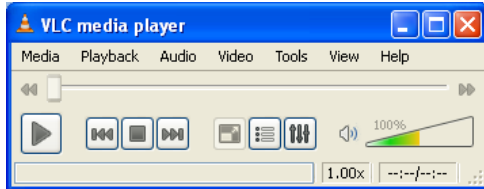
IP	Enter the IP address of the PC to connect.
Playlist	<ul style="list-style-type: none">➤ Select a movie/stream and press OK key to start streaming.➤ Activate the VLC Web interface to display the playlist.

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Streaming	<ul style="list-style-type: none"> ➤ Press PAUSE key to pause and PLAY key to resume streaming. ➤ Press STOP/EXIT keys to stop.
Screen	Press RES key to change the screen format.

4.2 Playlist

Activate the **VLC Web interface** to display the playlist with your device.



View →
Add interface →
Web Interface

4.3 Open media

VLC	<ul style="list-style-type: none"> ➤ Activate VLC Media player on your PC. ➤ Open the streaming option: Media → Streaming
Streaming	
➤ Disc	<ul style="list-style-type: none"> ➤ Select the Disc type and options (title, chapter, etc.). ➤ To select a title and chapter, play the DVD with VLC and enter Playback option to view the title and chapter no..
➤ File	Select a movie file.
➤ Capture Device	Select the capture device & options.
➤ Network	Select the network protocol of the TV internet stream.
Select Stream after the selection is made.	

4.4 Stream output

Source	<ul style="list-style-type: none"> ➤ The selected source is displayed. ➤ Select next.
Destinations	
➤ Destinations	<ul style="list-style-type: none"> ➤ Select UDP from the list. ➤ Select Add and enter the IP address of your device (<i>open the port 1234 of your firewall</i>).
➤ Display locally	Select this option, if you stream in a local network.
Transcoding options	
➤ Activate	Select Activate Transcoding .
➤ Profile	<ul style="list-style-type: none"> ➤ Select Video – MPEG-2 + MPGA (TS) from the list. ➤ Click on the settings icon to display the Form window.
Form	
➤ Encapsulation	Select MPEG TS .
➤ Video codec	<ul style="list-style-type: none"> ➤ Select MPEG-2 as Codec. ➤ A bitrate of 2048 Kb/s is recommended.

IX. styx TV

	➤ Select a Frame Rate of 25 fps.
➤ Audio codec	Select the audio codec and bitrate .
Select Save .	
Options - Generated stream output string	
Insert the Video and Audio PID {pid-video=100,pid-audio=101} after mux=ts	
<code>:=std{access=udp,mux=ts{pid-video=100,pid-audio=101},dst=192.168.11</code>	
➤ Select Stream to complete the setting. Add DVDs and IPTV streams the same way.	
➤ You can select and add only one file, DVD or IPTV stream to the playlist. It is not possible to add multiple files to the playlist.	

4.5 Streaming Internet TV

Stream Internet TV with VLC Media Player from your PC to your device.

4.5.1 P2P Programs

P2P	To stream channels from TVants, Sopcast, TVU install these P2P programs to your PC.
VLC	The P2P program must be running the complete time on your PC to stream with VLC to your device.
Tips	Enter www.myp2p.eu to find download links for the P2P programs, tips & tricks and streaming schedules (i.e. sport events).

4.5.2 P2P Settings for VLC Player

P2P	<ul style="list-style-type: none"> ➤ Activate the P2P program. ➤ Select a channel.
VLC	After that activate VLC Player and open the Streaming option and enter Network .
VLC settings	
Protocol	<ul style="list-style-type: none"> ➤ Enter the Protocol for the URL location. ➤ For Sopcast, TV Ants and TVU it is HTTP.
Address	
TVants	<ul style="list-style-type: none"> ➤ Right click over the streaming channel of TVants and select properties. ➤ Enter the asf location of the stream i.e. http://localhost:16900/1.asf
TVU	Enter http://localhost:8901
Sopcast	Enter http://localhost:8902/tv.asf . The end port can change to 8912 or 8922.
Others	Enter the URL location.
Continue to set the stream output (chapter 4.4) and activate the VLC Web interface to stream channels to your device.	

FEATURES & SPECIFICATION

- **styx TV**
 - Watch YouTube & YouPorn Videos
 - **moviebox**: Play & Download Movies from the web
 - **styx net**: Play & Download Movies, MP3s, Photos from PC & FTP Servers of family and Friends
 - Stream P2P Internet TV (TVants, Sopcast, etc.), DVD's, Movies, Web Cams from a PC with VLC Media Player
- **styx web**
 - Read tweets (Twitter) & integrated RSS News Feeds in multiple Languages while watching TV
 - View Weather Forecasts (Europe/World) and the worldtime while watching TV
- **styx media**
 - Stream Shoutcast (over 25.000 Radio Stations) & Jamendo Internet Radio
 - View Flickr & Picasa, Photos with Radio, MP3s, Internet Radio as soundtrack
 - **styx share**: Play & Stream Movies, MP3s, Photos from the shared Folders of a Windows PC (XP, Vista, Windows 7)
 - **musicbox**: Play & download MP3s from the Jamendo TOP 100
- **MULTIMEDIA**
 - Movie Player for DivX, Flash, MPEG-2 Transport Stream, MPEG-2
 - Photo Viewer (jpg) & Slideshow in HD quality
 - Slideshow with Radio, MP3s, Internet Radio as Soundtrack.
 - MP3 Player
 - 3 x USB 2.0 Host to connect Memory Devices
- **GAMES**

Arcade Games
- **SATELLITE RECEPTION**
 - Fully DVB-S/DVB- S2 (H.264) *High Definition* compliant
 - Converting PAL Resolution to *High Definition* (720p/1080i) Resolution
 - Record one Program while watching another Program
 - Instant -, Timer - and Timeshift Recording to USB Memory
 - 9999 programmable TV & Radio Channels and 20 Timer Events
 - 7 days Program Guide (EPG) & Teletext
 - 2 Common Interface Slots & 1 Smart Card Reader

FEATURES & SPECIFICATION

Transport stream A/V Decoding

Aspect Ratio	16:9, 4:3, Letterbox
Video Resolution	576i, 576p, 720p, 1080i
Profile Level	MPEG-2 MP@ML, MP@HL, MPEG-4 H.264/AVC HP@L4
Frame Rate	50Hz PAL
Audio Decoding	MPEG-1 Layer 1, 2, MP3 & Dolby AC3/AC3+
Teletext	VBI support

Tuner

Demodulation	QPSK, 8PSK
Frequency	950-2150 MHz
Symbol Rate	DVB-S QPSK: 2- 45Ms/s DVB-S2 8PSK/QPSK: 10-30Ms/s
DiSEqC Control	1.0, 1.2, USALS

Conditional Access Interfaces

Smart Card	1 Slot
PCMCIA	2 Slots (DVB Standard)

Power Supply

Input Voltage	90-250V AC, 50/60Hz
Power Consumption	Max. 35W
Standby Mode	Max. 1W
Type	Switching Mode Power Supply

A/V & Data In/Out

USB 2.0	3 x USB Host connector
HDMI	Digital Video/Audio Output
Component	Y/Pb/Pr Video Output (RCA)
S/PDIF	Optical Output
Ethernet	RJ-45 10/100 Base-T
Video	Composite Vide Output (CVBS)
Audio	Audio L/R Output (RCA)

Supported Formats

Photo	JPEG
Video	AVI, VOB, FLV, MPEG2 TS/TRP, MPEG 1/2
Subtitle	SMI, SRT, SUB

Physical Specification

Dimension (w x h x d)	340 x 60 x 230 (mm)
Weight	~ 2 kg
Operating Temperature	0°C ~ 45°C
Storage Temperature	-10°C ~ 60°C

Display & Control

16 Digit VD LCD, 10.42mm Character size
IR Remote

Operating System

Linux	Kernel 2.6
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The information in this user's manual is subject to change without notice.

GNU

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Disposal instructions



Electronic equipment is not domestic waste - in accordance with directive 2002/96/EG OF THE EUROPEAN PARLIAMENT AND THE COUNCIL dated 27th January 2003 on used electrical and electronic appliances, it must be disposed of properly. At the end of its service life, take this unit for disposal to a recycling collection point for electrical and electronic equipment.



Used batteries are special waste. Do not throw used batteries into your household waste. Take them to a collection point for old batteries.