

User manual



ARIVA @Link 200



English



WARNING !!!



Ferguson satellite receivers support recording on external hard disk drives (HDDs) and flash memories (pendrives). In all instances, the correct operation of the recording function depends on the type of connected memory! You must read the following limitations.

REMEMBER:

1. In order to use an external USB memory, the memory must support the USB 2.0 standard. To ensure stable recording and playback, **you must use a memory with a recording speed of 20.0 MB/s or greater**. Slower hard disk drives and flash memories may not function properly, have problems with recording (image jitter), or not function at all!!!
2. Only disks with one basic EXT2, EXT3 or FAT32 partition (we recommend using the FAT32 format) will function properly. If you do not have such a format, prepare the disk on your computer before connecting it to the receiver.
3. Highly fragmented or used memories may also not operate smoothly or correctly.

CAUSION

1. Under no circumstances should you disconnect the USB device from the receiver during recording or playback. Disconnecting during operation may cause damage to the receiver and/or flash memory, and to the recorded data.
2. Do not touch the working device (and in particular the USB connector) with wet hands. Risk of electric shock and permanent damage to the receiver!

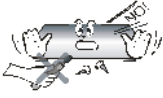
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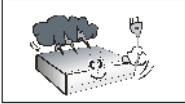
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SAFETY MEASURES

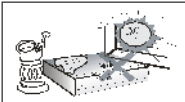
We request that you read the instruction manual and recommendations set forward therein. Also remember to correctly position the satellite antenna!



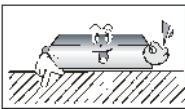
In order to avoid an electric shock, never open the housing. Damage to the warranty seal shall void the warranty.



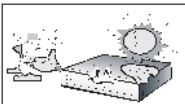
Disconnect the device from the mains during thunderstorms or when it is not to be used for an extended period of time. Please remember that the warranty does not cover damage to the equipment caused by a lightning strike.



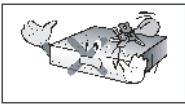
Do not expose the device to direct sunlight. Place it away from sources of heat and humidity. Do not cover ventilation ducts, in order to ensure the correct circulation of air.



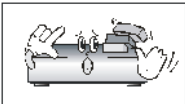
Place the device horizontally on a flat, even and stable surface.



If you move the device from a room that is warm to one that is cold (or vice versa), wait at min. 1 hour before connecting it to the mains. Otherwise, problems may arise.



The device should be placed away from vases, bottles, aquariums and other water containers in order to avoid damage. Do not touch the mains plug with your bare hands.



Do not place any objects on the housing of the device. This may cause overheating and reception problems.

Before commencing maintenance or installation work, disconnect the receiver from the mains. Do not clean the receiver with alcohol or liquids containing ammonia. If necessary, clean it with a soft, lint-free cloth wetted with a gentle solution of water and soap.

- Do not connect any cables when the mains plug is in the socket.
- Check the condition of your cables. Damaged cables may cause a fire.
- Please disconnect the receiver from the mains before connecting any cables.

DOWNLOADABLE SOFTWARE

Ferguson has taken every effort to provide users with software updates in order to ensure that the parameters of the satellite television receiver are up to date. Ferguson reserves itself the right to amend, change or modify the software used in the satellite television receiver as it shall choose and without prior notification. The latest version of the software is available on the website <http://www.ferguson-digital.eu>

ABOUT THE INSTRUCTION MANUAL

Ferguson has made every effort to provide the most current information about its products. Ferguson does not grant any guarantee as to the contents of the present instruction manual and disclaims any implied guarantees concerning market value or suitability for specific purposes. The information contained herein is an instruction intended to enable the correct usage and maintenance of the receiver.

Ferguson reserves itself the right to introduce amendments, changes or translations of the instruction manual without prior notification thereof. For this reason, we recommend you regularly visit our website in order to obtain the latest information.

MARKINGS AND SIGNS APPLIED TO THE RECEIVER



Digital signal transmission logo.

This logo informs that the receiver conforms to the Digital Video Broadcasting standards.



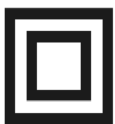
Risk of electric shock - do not open.

This notice warns the user not to open the receiver housing. The housing may be opened solely by authorised service technicians.



CE logo.

The logo informs that the receiver conforms to the terms and conditions of Directive 89/336/EEC concerning observance by Member States of provisions regulating electromagnetic compatibility, and to the terms and conditions of Directives 73/23/EEC and 93/68/EEC concerning observance by Member States of provisions regulating low voltage electricity and safety with relation to the handling and operation of electrical equipment.



Double insulation logo.

This logo informs that the receiver is an electrically safe device, provided that it is used in accordance with the recommendations set forward in the chapter concerning safety.



Take an active part in protecting the natural environment!

- Your device is made from materials that can be processed or recycled.
- To this end, you should deliver it to a designated collection point.

BASIC INFORMATION ABOUT THE RECEIVER

1. Main features

- ✓ Reception of high definition channels
- ✓ Scaling of PAL signals to a resolution of 720p or 1080i
- ✓ Availability of 20 programmable timers
- ✓ Separate lists of favourite, TV and Radio channels
- ✓ Quick channel search function (QuickFind)
- ✓ Teletext and on-screen captions
- ✓ DiSEqC 1.0, 1.1 and DiSEqC 1.2, USALS
- ✓ MPEG-2, MPEG-4, MPEG-4 AVC/H.264 standards
- ✓ Compatible with DVB-S and DVB-S2 systems
- ✓ Card reader for pay-per-view television
- ✓ 2 x CI socket

2. Contents of box

Unpack the receiver and check whether all of the following elements are present

- ✓ 1 x remote control unit
- ✓ 1 x instruction manual
- ✓ 1 x satellite television receiver
- ✓ 1 x HDMI cable

3. Important instructions concerning handling of the receiver

The screen menu (OSD) simplifies operation of the receiver and has made it possible to reduce the number of keys on the remote control. All of the functions are displayed on the screen and may be controlled by means of a small number of keys. Common functions have been connected in one "MENU". The selected function is coloured. Depending on the selected option, various "function keys" are displayed: red, yellow, green, blue and white in the form of graphics and descriptions. The colours represent various functions in individual "Menus". The selected function is activated by pressing a key on the remote control unit. The so-called function keys are active only when in the appropriate field there is information about it. The user interface makes it possible to navigate within a menu and between functions in a number of different ways. Certain buttons on the remote control allow direct access to functions. The buttons are multi-functional, i.e. their functions depend on previously activated elements.

NOTE:



Please keep in mind that new software may change the functionality of the receiver. Photographs and descriptions included in the instruction manual are for informational purposes only. If you should notice an error, please report it - we shall make every effort to have it rectified.

4. Remote control



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).



Enter/exit **ARIVA TV**.



Enter/exit **ARIVA web**.



Enter/exit the edit menu.



Eject the USB memory.



Enter/exit **ARIVA 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.



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

TEXT Enter/exit Teletext.

ZOOM Enter/exit the zoom mode.

FREEZE Pause a live program.



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.



9 WXY

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.

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%**).



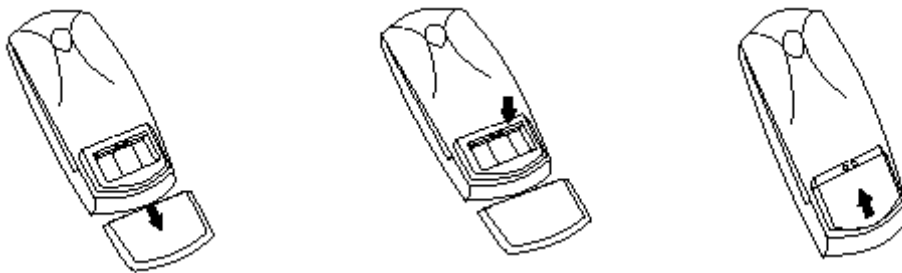
REWIND / FORWARD

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



JUMP Jump back or forward during playback.

4.1 Installation of batteries



Remove the cover of the battery compartment on the rear panel of the remote control unit; slide it downwards and put it aside. Insert two AAA (R03) batteries into the compartment, observing the indicated polarity. **Do not mix old and new batteries, or batteries of different types.** Replace the battery compartment cover. Slide it upwards until it locks in place.

5. Front panel



USB: Port for connecting an external USB memory device.

POWER: Press power key one time to power off the receiver. Press again to reboot the receiver. To switch the receiver to standby is only possible with the standby key on the remote control.

▲▼: Switches to the next/previous channel, moves the cursor up/down in the Menu.

CA: Socket for a subscriber's card – always insert with the chip facing up!

CI: Socket for the CAM conditional access modem.

5.1. CAM module and subscriber's card

Inserting the module and subscriber's card

The conditional access module resembles a PC card (known as the PCMCIA) for laptop computers. There are different types of CI modules, suitable for various encoding systems.



1. First, turn off the receiver.
2. Insert the subscriber's card into the conditional access module.
3. Open the tab on the front panel and insert the CI CAM module, forcing it home into the socket on the right side of the front panel. If you want to remove the CAM module, press the black button next to the CAM socket.
4. After correctly inserting the module, turn on the receiver. From now on you will be able to watch coded television channels available through this module and card.

Note: Check whether the subscriber's card has been correctly inserted into the module. Incorrect insertion of the card may cause damage to the conditional access module.

Warning: Do not attempt to remove or insert the module and/or card when the receiver is turned on!!!

6. Rear panel



LNB IN:

LOOP OUT:

ETHERNET:

HDMI:

USB:

OPTICAL:

COAXIAL:

TV SCART:

COMPONENT (YpbPr):

AUDIO (L/R):

MODEM:

ON/OFF:

Input of the concentric cable from the converter.

Output of the signal from the converter to another satellite receiver. The Ethernet port used for communication over the LAN network/Internet.

Digital image and sound output.

USB 2.0 host connector.

Digital optical audio output.

Digital coaxial audio output.

SCART output, for connection to a television.

Component video output 3 x RCA (YpbPr).

Analogue stereo audio output, 2 x RCA.

RJ-11 port.

Power on/off switch.

7. Connecting the satellite antenna

In order to check the correctness of connection of external equipment, for example a satellite antenna or converter, read the installation manual or hire a professional technician!

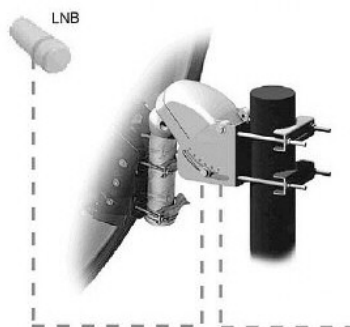


Good reception is conditional on the precise placement of the antenna. Even the best antenna will cause reception problems if it is incorrectly adjusted. Even slight placement errors may render reception impossible or considerably impair image/sound quality. Before installation make sure that the location is suitable. The proper direction may be initially determined by making a comparison with other antennas. There should be no objects directly in front of the antenna, for these may block the signal from reaching the bowl! Once you select an optimal location for the antenna, fix and adjust it initially, and then proceed to a precise adjustment. Each antenna is fitted with regulating screws that make it possible to correct its vertical and horizontal placement.

Adjusting is somewhat more difficult in the case of digital tuners. You cannot perform adjustments on the basis of the image, because this appears with a certain delay. What is more, the indicators available in the settings menu also act with a delay, and therefore adjustment may take considerable time and be very imprecise. An antenna signal meter will be indispensable for setting up the antenna. The meter must be connected to the antenna cable between the converter and the receiver. This will confirm the presence of a voltage that switches the converter from the tuner and show the signal strength for individual satellites. We strongly recommend hiring a professional technician!

8. Connecting an antenna system with a positioner

USALS type positioners manufactured by Stab will guarantee the correct operation of your Ferguson receiver. In order to connect an antenna system to a USALS positioner, you should connect the positioner out to the LNB IN of the Ferguson receiver. The role of the positioner installed between the mast and the antenna is to turn the bowl in such a way as to ensure that it is directed to various satellite positions. The positioner is built in such a way that its axis of revolution is parallel to the direction towards the North Star. For this reason, its mounting is frequently termed the Polar mount. In consequence, when the satellite changes position, it is not necessary to adjust the azimuth and elevation independently. The antenna revolves only in one axis. Using the introduced scale, the motor inclines in such a way as to ensure the appropriate placement of the axis of revolution. The angle of inclination corresponds to the latitude of the location where the antenna is installed. As in the case of a fixed antenna, the angle of elevation of the bowl must first be set. For this purpose, use is made of a satellite located as close as possible to the south of your location. Ideally, the position of the satellite should not differ from that of the said direction by more than 5°. In other words, you should use the satellite position closest to the longitude of the point of installation. For example, if your longitude is 73° W, you should search for a satellite located at a position between 68° and 78° W.



The USALS function considerably simplifies configuration of the antenna. The Ferguson receiver requires that you enter the geographical coordinates of the antenna in order to automatically calculate the angle of revolution of the motor for individual satellites. The receiver activates the positioner automatically and turns the antenna to the selected satellite. When a signal is locked on, you should precisely adjust the antenna's elevation and azimuth settings in order to optimise signal reception. When correcting the azimuth, the entire antenna assembly and positioner revolve with respect to the mast. If initially the antenna was not directed precisely south, you can correct this now. When you have finished with the first satellite, all other satellites will be remembered automatically, provided that you have introduced their satellite position values correctly.

Without the USALS function, programming of the system is much more difficult. To this end you should use the DiSEqC 1.2 function, which turns the antenna to the selected satellite in a nearly identical manner. Since, however, it does not take into consideration the local geographical coordinates, the movement is effected on the basis of the prime meridian and the equator. Therefore it is necessary to introduce corrections separately for each satellite. Due to these difficulties, manufacturers of DiSEqC 1.2 positioners frequently provide useful software on their websites, using which you can easily calculate the location of the satellite.

9. Connecting the satellite receiver

The following illustrations show cable connections for a television and other devices connected with the receiver. If you require any assistance in connecting individual devices, contact your local technician. Before connecting or altering cabling, disconnect the receiver from the mains !!!

9.1 Connection by means of an HDMI cable (recommended)

1. Connect the antenna to the LNB IN socket of the receiver.
2. Connect the HDMI to the receiver out and the television in.

Connection by means of an HDMI cable allows you to obtain the highest image quality.



If you have an amplifier with an HDMI out and in, which supports sound sent over HDMI, connect the devices by two HDMI cables. As in the following figure: one cable to the amplifier, and the other from the amplifier to the television set.



9.2 Connection by means of the YPrPb (component) sockets

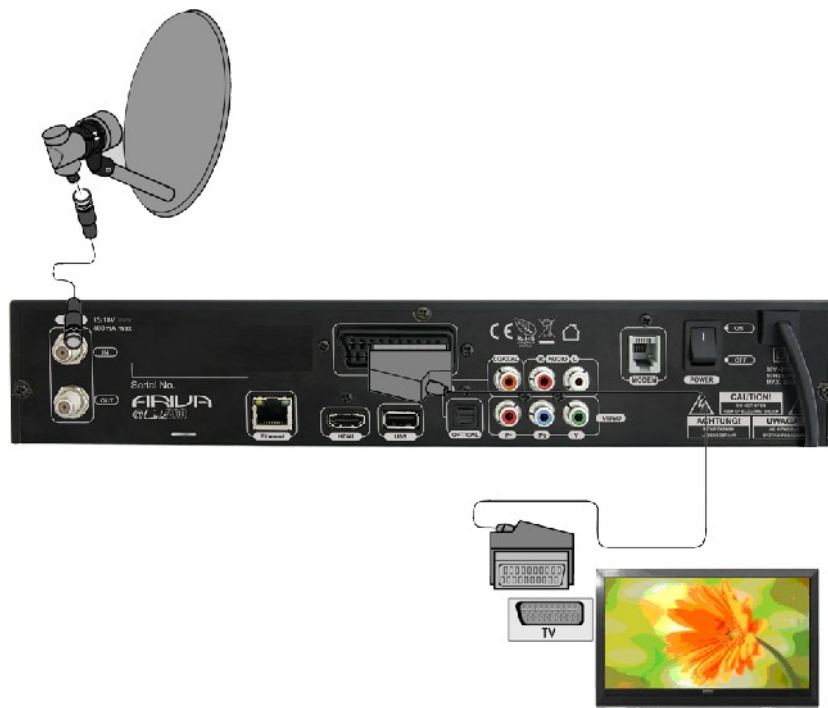
1. Connect the antenna to the LNB IN socket of the receiver.
2. Connect the video and audio by means of five cinch cables to the television set.

Three cables, coloured green, blue and red, are used to send the three colour components. The two remaining cable, red and white, are used to connect sound (right and left channel).



9.3 Connection by means of SCART cables

1. Connect the antenna to the LBN IN socket of the receiver.
2. Connect the television to the port in accordance with the description. We recommend using shielded SCART cables.



9.4 Connection of an audio system

1. Digital sound (including surround sound, if broadcast) may be obtained through two sockets: electrical (SPDIF) or optical (OPTICAL). The following figure presents the SPDIF connection.

2. Stereo sound may be obtained by connecting cinch cables (white and red) for the left and right channels



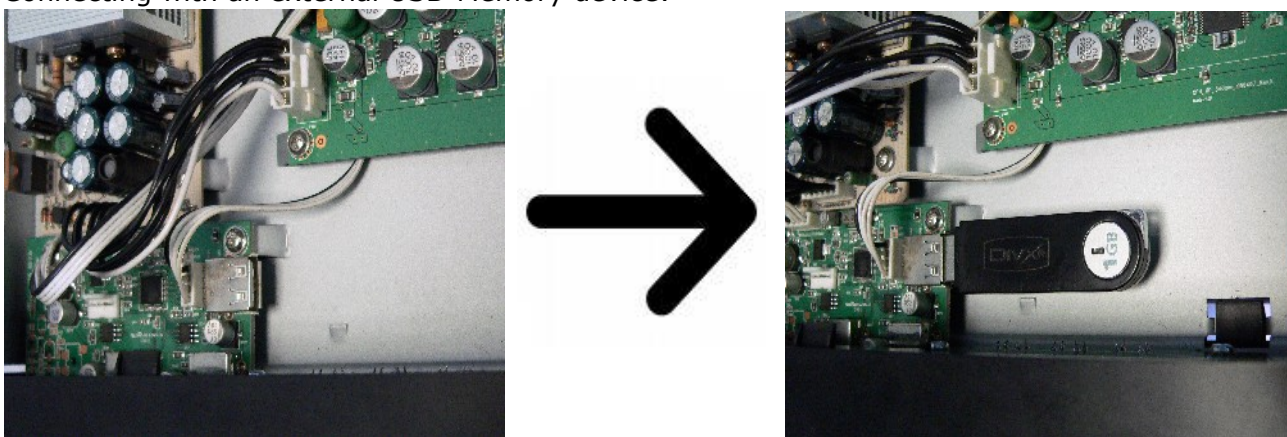
9.5 Connection of an external memory

1. The receiver supports all types of hard disk drives in housings that are equipped with an independent power supply. The sole condition is that the hard disk has to have a single basic partition that is formatted in the FAT32 (recommended), EXT2, EXT3.

2. We recommend that you regularly archive data on your PC computer. A large number of files with recordings may slow down cooperation with the receiver (slow loading of the file list).

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 with an external USB-Memory device:



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

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

9.6 Connection of another receiver


Another receiver may be connected through the LNB OUT socket. Please keep in mind, however, that only one device may be used at any one time! Permanent damage may result if both are turned on simultaneously.



9.7 Connection to the LAN local network

PSTN Modem: RJ11 connector - Your device has an internal PSTN modem. Connect your device to the network with a Telephone cable.

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.



FIRST STEPS

1. Insert the plug of the receiver and other additional devices to a wall socket.
2. Select AV signal source of your television set.
3. The satellite receiver is supplied with reinstalled television channels. In order to watch other, i.e. non-default channels, you should use channel search function.



Note: check all of the connections, i.e. antenna cables, audio and video signal cables, before connecting the receiver to the mains!

INFORMATION ABOUT THE USER MENU

The user interface allows you to use numerous settings and receiver functions. Some buttons on the remote control unit enable direct access to functions of the device. Certain of these buttons have been described, for example EPG, MENU, OK, or coloured for ease of usage. Other buttons are multi-functional and their operation depends on the type of device selected by the user. Hereunder we have presented a brief description of how to use certain device functions available through the user menu.

1. The up/down arrow keys on the remote control are used to move the cursor up and down on the menu.
2. The left/right arrow keys on the remote control are used to move the cursor left and right, and to switch on submenus
3. The OK button is used to enter submenus.
4. The EXIT button is used to exit menus or functions.
5. When using a submenu, the OK button is used to confirm your selection; a green background informs that a function is active.

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 3 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.



10. First instalation

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

10.1 Operating the menu

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

Enter an option with the **OK** key.

10.1 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.

10.2 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.

LNB Power Select the LNB power.

Search Press  (blue) key to start the search.

Search options

All/FTA/NIT/FAST SCAN Select an option to start the search.

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.

11. DAILY USAGE

11.1 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**.

11.2 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.

11.3 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** 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  (red) key to **delete** a letter

11.4 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  (yellow) key to rename.

- Edit** Press  (red) key to edit.

11.5 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.

11.6 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.

11.7 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 p/q/**OK** keys.

If the TV is connected with a scart 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.

11.8 Audio channel

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



Stereo.



Left/right channel (Mono).

11.9 Audio language

TV Press **LANG** key to select an audio language, if available. Select a language with the **▲/▼/OK** keys.





Recordings Press **LANG** key to select an audio language, if available for playback of recordings. Select a language with the **▲/▼/OK** keys.

Movies 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.

11.10 Freeze mode

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

11.11 Teletext

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


11.12 Edit channels, Common Interface, event list




Press  (green) 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.

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

Delete Press  (red) key to delete the channel.

Event list Press  (blue) key to display the **event list** for all recordings and reservations. Select an event with the p/q keys. Press  (red) key to delete an event, press  (green) key to delete all events.

11.13 Photos/Picasa/Flickr radio soundtrack

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

11.14 Jump time

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

11.15 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.

11.16 Subtitle language

TV Press **SUBT** key to select subtitle languages, if available. Select a language with the p/q/**OK** keys.

Recordings Press **SUBT** key to select subtitle languages, if available for playback of recordings. Select a language with the p/q/**OK** keys.

Movies 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


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.

11.17 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  (red) key to delete a letter.

A/a/... Press  (green) key to change between capital/lower case letters and to display special letters for a language.

Save Press  (yellow) key to save.

Cancel Press  (blue) key to cancel.

12. Program guide

Press **EPG** key to display the electronic program guide for current, next and scheduled programs.

Now/next schedule.

Select a channel with the p/q keys to display the **now/next** schedule.

Enter the **now/next** schedule with the t/u 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.

Select a program with the p/q, t/u keys.

Press the **OK** or **INFO** key to display detail information, if available.

Reserve Press  (red) key to reserve programs (TV or Radio) to change to this program at the scheduled time.


Mode Select an option (**once, daily, weekly, daily (Mon-Fri)**).


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  (green) key to set the timer for recordings.

Week Press  (yellow) key to switch between the **now/next** and week schedule of the selected channel.

Event list Press  (blue) key to display the **event list** for all recordings and reservations. **20 Timer events** (recordings and reservations) can be programmed.

Delete Select an event with the p/q keys. Press  (red) key to delete.

Delete all Press  (green) key to delete all events.

13. RECORDING

13.1 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.

It is only possible to record to one connected USB memory device. Select the USB Memory to record in **Multimedia (User)** menu).


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 all connected USB memories. 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 p/q/**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 (ARIVA media)** to playback recordings.

13.2 Instant recording

- Recording** Press **RECORDING** key to start the recording.
- Duration** The duration as set in **Multimedia (User menu)** is displayed.
Press the p/q keys to change the duration (**max. 180 min.**) in **10 min. steps.**
- Stop** Press **STOP/EXIT** keys to stop a recording.


13.3 Timeshift recording

Timeshift enables you to record and playback a program you are watching, while it is still being broadcasted.

- Start** 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.
- File** The Timeshift recording is stored in the **TimeShift** file in **Recordings**.

13.4 Timer recording

Press **EPG** key to program a timer.

Select a channel or program and press  (green) key.

- Mode** Select an option (**once, daily, weekly, daily (Mon-Fri)**).
- 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. **10 min.**, max. **180 min.**) for a recording.
Press **MENU** key to save the event.

14. MENU

14.1 Operating the menu

| | |
|---------------|---|
| Menu | Select an option with the ▲/▼, ◀/▶ keys. Enter an option with the OK key. |
| Values | Change values with the t/u keys. Insert values with the 0-9 numeric keys. Enter the edit window . |

15. INSTALLATION


15.1 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. Select the user Band B1-B8 . Select the Band frequency . |


Press **MENU** key to save.

15.2 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. P1 : User band B1, B2, B3, B4 P2 : User band B5, B6, B7, B8. |
| LNB Power | Select the LNB power. |
| Search | Press  (blue) key to start the search. |
| 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. |



15.3 Edit satellite

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


15.4 Fastscan

| | |
|---------------------|---|
| Satellite | Select a satellite. |
| Search | Select a fast scan search option. |
| Channel list | Select to add the searched channels to the channel list (end) or to replace the searched channels. |
| Search | Press  (blue) key to start the search. |

15.5 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  (blue) key to start the search. |
| Search options | Select an option (FTA/NIT/Transponder) to start the search. |
| Edit | Press  (red) key to edit a transponder. |
| Save | Press MENU key to save the edited/new transponder. |

15.6 DiSEqC/USALS-Multi search


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

15.7 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. |

15.8 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 t/u (West/East) keys to move the motor to the desired position/limits. |
| Steps | Select the motor steps (1-127). |
| Move in steps | Press the t/u (West/East) 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  (blue) key to save the Motor settings and enter the Satellite search menu to start the search. |

15.9 USB update

| | |
|-----------------|--|
| Download | Download from www.ferguson-digital.eu the latest system software to your PC 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. |

15.10 Network update

Update your device with the latest system software via the Internet.

| | |
|-----------------------|---|
| Network update | Select Network update to start the network update. |
| Reboot | After an update the set will automatically shutdown. Reboot the set after the shutdown. |

15.11 Factory reset

Reset all channel data to the device factory settings. All stored channels, lists and settings will be deleted.

NOTE: *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.*

16. SETTINGS

16.1 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.

Modem To connect with your telephone line.

Phone number Enter the phone number to dial in.

Press **MENU** key to connect.

16.2 ARIVA share

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

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

Windows Select the PC Windows system (**XP/Vista/Windows7**).

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.

16.3 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. |
| TV scart signal | Select the TV scart output option (CVBS/RGB). |
| 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. |

16.4 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.

16.5 Card reader

View information about the inserted subscriber's card.

16.6 Common interface

View information about the inserted Conditional access module.

| | |
|-------------|---|
| Slot | The installed modules for Slot 1 (bottom) and Slot 2 (top) are displayed. |
| Menu | Enter the card menu for details. |

17. USER

17.1 Menu & audio language

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

17.2 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. |

17.3 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 *Contact your local dealer, if you forgot your PIN code.*

17.4 Menu & channel lock

Menu lock Select **On** to block the access to the **MENU**.

Channel lock Select **On** to lock channels.

17.5 Multimedia

Recording duration Select the preset recording duration (**max. 180 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 USB memory to save recordings and downloads (**USB 1, USB 2, USB 3**).


18. CREATE & EDIT

18.1 Edit channel

Delete Press  (red) key delete a channel.

Lock/unlock Press  (green) key to lock/unlock a channel.

Move Press  (yellow) key to move the position of a channel or multiple channels at once.

Press  (yellow) key to select a channel or multiple channels.

Press p/q keys to select the new position.

Press  (red) key to move the channel/channels.

Press **OK** key to preview a channel.

Rename Press  (blue) key to rename a channel.

List Select a channel list with the t/u keys.


Channel Enter the channel number.
Press **OK** key to preview a channel.

18.2 Edit user lists

Edit the **10 user lists**.

List Move between columns with the t/u keys and select an option or channel with the p/q/**OK** keys.


Rename Select a list and press  (yellow) key to rename the user list.

Edit Select a list and press  (red) 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  (red) key to **watch** a channel.

18.3 Delete satellite & transponder

Select a satellite or transponder to delete.

18.4 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.

19. ARIVA MEDIA

19.1 Operating the menu

Select a menu option with the t/u keys.

Select an option file/folder with the p/q/**OK** keys.

Press the  (blue) key to change between **ARIVA share** and connected **USB memories**.



Browse the directory of the **USB memories (USB 1, USB 2, USB 3)**.



Browse the directory of the **shard documents folder** of the connected PC.

Enter **ARIVA share** (**Settings** menu) to connect to your PC.

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

19.2 Media guide



Status

Displays the memory status (**USB/PC**).

Preset folders

| | |
|---------------|---|
| ariva_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 *For USB memory devices formatted in NTFS your device can only playback files (movies, MP3s, pictures).*




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.

Delete from time to time files which you are not using anymore in the preset folders, i.e. YouTube, YouPorn, Jamendo, thumbnail images.

19.3 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. |
| Details | Press INFO key to display the title, present & total playtime. |

Edit movies/recordings & folders

- Sort Press  (green) key to sort (**A-Z/Z-A, Date**).
- Delete Press  (red) key to delete.
- Lock Press  (yellow) key to lock/unlock a **folder** or a **recording**.
- Rename Press **INFO** key to rename a **recording**.

NOTE *For YouTube videos and some video files **rewind/forward, Jump, slow motion** does not work.*

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 *Your set will reboot, if you selected the wrong video codec.*


19.4 Music

- Format** MP3.
- Playback** Select a song and press **OK** key. Press **STOP** key to stop.
- Playlist** 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  (green) key to sort (**A-Z/Z-A, Date**).
- Delete Press  (red) key to delete.




19.5 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 t/u keys.
- Thumbnails/** Press  (yellow) key to change between **thumbnails** and **list** mode.
- list**
- Slideshow** Press **PLAY** key to start the slideshow of a folder. Press **STOP/EXIT** keys to stop.


Edit Photos & folders

- Sort Press  (green) key to sort (**A-Z/Z-A, Date**).
- Delete Press  (red) key to delete.


19.6 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  (red) key to display the genre. Select a genre and press **OK** key.
- Search** Press  (yellow) key to search for a radio station.
- Sort** Press  (green) key to sort (**A-Z/Z-A**).
- Sountrack** Enter **Photo Menu, Flickr, Picasa** with **Shoutcast** as soundtrack.



19.7 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  (red) key to sort (**A-Z/Z-A**).
- Sountrack** Enter **Photo Menu, Flickr, Picasa** with **Jamendo** stations as soundtrack.

Play & download MP3s from the Jamendo Top 100 chart.


- Jamendo** Press  (yellow) key to enter the Jamendo Top 100 MP3 chart.
- MP3** 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.

19.8 Flickr & Google Picassa

- Photos** View photos from Flickr & Google Picassa.
- Search** Press  (red) key.
Enter the search term.
Press  (yellow) key to save and to start the search.
- List** Select a photo with the p/q keys.
Press **OK** key for full screen mode and press **EXIT** key to abort.
Scroll pages with the **PAGE** p/q keys.
- Picasa** Select the next and previous photo of an album in full screen mode with the t/u keys.

19.9 Musicbox

Play & download MP3s from the Jamendo Top 100 chart.

- Jamendo** Press  (yellow) key to enter the Jamendo Top 100 MP3 chart.
- MP3** 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.

20. ARIVA WEB

20.1 Operating the menu

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

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

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

20.2 Ferguson news

Information about latest updates and other news are displayed.

20.3 RSS

Integrated RSS news feeds in multiple languages are displayed.

20.4 Twitter


Twitter Display and send Twitter tweets.


Search Press **OK** key to display the search window.

Enter the search term.

Press  (yellow) key to start the search.

Write Press  (blue) key to write a tweet.

Press  (red) key to enter your **username**.

Press  (green) key to enter your **password**.

Press  (yellow) key to **write** a message of 140 characters or fewer.

Press **OK** key to **send** the message.

NOTE *You need a twitter account to send messages. To set up an account enter www.twitter.com.*

20.5 Weather

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

20.6 Advertising

Advertising, if available, is displayed.

20.7 World Time

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

21. ARIVA TV

21.1 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 **ARIVA TV** an **USB memory** must be connected.*

21.2 YouTube & XXX (YouPorn)

Playback YouTube & YouPorn videos.

List Press  (green) key to display the categories and time periods.
Select the time period.
Scroll pages with the **PAGE** p/q keys.

Search Press  (red) key.
Enter the search term.
Press  (yellow) key to save and to start the search.

Playback

Preview Select a video and press **OK** key.

Full screen 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.*

22.2 Ariva net

ARIVA 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 **ARIVA net** cannot start, if the file name has more than 55 letters or too many punctuations. In this case, shorten the filename.*

FTP Press **OK** key to enter the IP address of the **FTP server** and if required the **Username/Password**.


Press **MENU** key to connect.

Directory Browse the directory with the p/q, **OK** keys.

Download Press **OK** key.

PC To have access to a PC install a FTP server program on the PC.

22.3 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. |
| Status | 100% is displayed when the download is complete. |
| Delete | Press  (red) 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 *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%.*

22.4 Moviebox

| | |
|---------------|---|
| Movies | Press OK key to display the available movies for download. |
|---------------|---|

22.5 ARIVA net

| | |
|------------------|--|
| FTP | Press OK key to enter the IP address of the FTP server and if required the Username/Password . Press MENU key to connect. |
| Directory | Browse the directory with the p/q, OK keys. |
| Download | Press OK key. |
| PC | To have access to a PC install a FTP server program on the PC. |

22.6 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.

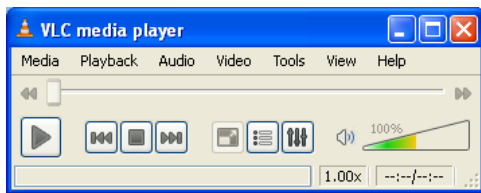
Stream **Webcams & TV cards, Internet TV & PSP**.

Operating the menu

- IP** Enter the IP address of the PC to connect.
- Playlist** Select a movie/stream and press **OK** key to start streaming.
Activate the **VLC Web interface** to display the playlist.
- Streaming** 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.

Playlist

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



View

Add interface

Web Interface

Open media

- VLC** Activate VLC Media player on your PC.
Open the streaming option: **Media** **Streaming**
- Streaming**
- Disc 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.

Stream output

Source The selected source is displayed.
Select **next**.

Destinations

Destinations Select **UDP** from the list.
Select **Add** and enter the IP address of your device (*open the port 1234 of your firewall*).

Display locally Select this option, if you stream in a local network.

Transcoding options

Activate Select **Activate Transcoding**.

Profile 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 Select **MPEG-2** as **Codec**.
A **bitrate** of 2048 Kb/s is recommended.
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**

```
:=std{access=udp,mux=ts{pid-video=100,pid-audio=101},dst=192.168.1.1
```

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.

Streaming Internet TV

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

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).

P2P Settings for VLC Player

P2P Activate the P2P program.
Select a channel.

VLC After that activate VLC Player and open the **Streaming** option and enter **Network**.

VLC settings

Protocol Enter the **Protocol** for the URL location.
For Sopcast, TV Ants and TVU it is **HTTP**.

Address

TVants 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.

ATTACHMENT A - GLOSSARY OF TERMS

CA - Conditional Access – a coding system used in order to protect transmitted data against unauthorised access. Access to protected channels is available only to subscribers.

CAM - Conditional Access Module – an electronic device, usually fitted with card slots, that allows access to coded pay-per-view channels on a receiver equipped with a CI socket.

CI - Common Interface – CI sockets of digital receivers are used for the installation of CAM conditional access modules, and thus allow you to view coded pay-per-view channels through these modules.

DVB-S the Digital Video Broadcasting standard that defines modulation and error correction in satellite transmissions. In DVB-S, both the MCPC and SCPC modes can be used by the operator to transmit channels. MPEG-2 is used as the transport stream.

EPG - Electronic Programme Guide – a service that displays detailed information about current and future programmes on the television screen.

FTA - Free-to-air – unencoded radio and television channels that may be received on any television set.

LNB - low-noise block converter – a converter - it converts satellite signals, and then sends them to the tuner through a coaxial cable. The basic parameters are: gain, noise factor and power consumption.

MCPC - multiple channels per carrier – more than one signal (channel) is transmitted on a given frequency (transponder). All of these channels comprise a single data stream, which is transmitted on one frequency following modulation.

Monoblock – a device that comprises two converters and a DiSEqC switch in a single housing, which receives signals from two satellites on similar orbits.

Pay-TV – Pay-per-view digital television, to which only subscribers have access. The service is provided by satellite, cable, over the ground or through the network.

SCPC - Single channel per carrier – only one signal (channel) is transmitted over a given frequency (transponder).

STB - Set-top box – an electronic device connected to the television set, which processes the signal received from the ground-based, cable or network satellite antenna. It enables the playback of video and sound.

TP - Transponder – a type of wireless communication device (transmitter), which automatically receives, modulates, strengthens and responds to a signal coming in real time over a specific frequency. The term is derived from the words "transmitter" and "responder". Usually, each transponder transmits numerous compressed digital channels.

DiSEqC - (Digital Satellite Equipment Control) a communication protocol, used between a satellite receiver and equipment such as switches or positioners, which supports switching between television signal sources and antenna control.

USALS - (Universal Satellites Automatic Location System) – a communication protocol used between satellite receivers and positioners, which makes it possible to control the positioner through the receiver. Used in connection with the DiSEqC 1.2 protocol.

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 |

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 |
|-------|------------|

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 and coaxial Output (RCA) |
| Ethernet | RJ-45 10/100 Base-T |
| TV Scart | Video/Audio Output (RGB, 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 |

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