

v2.20





0008





WARNING !!!



Ferguson 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 9.0 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 NTFS or FAT32 partition (we recommend using the NTFS 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.

4. External hard disk drives should be autonomously powered, since the builtin USB port is unable to provide sufficient power.

CAUTION

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!

Table of contents

SAFETY MEASURES	
DOWNLOADABLE SOFTWARE	
ABOUT THE INSTRUCTION MANUAL	
MARKINGS AND SIGNS APPLIED TO THE RECEIVER	
BASIC INFORMATION ABOUT THE RECEIVER	
1. Main features	6
2. Contents of box	
3. Important instructions concerning handling of the receiver	6
4. Remote control	7
5. Panels	8
6. Connecting an aerial	9
7. Connecting the receiver	9
7.1 Connection by means of an HDMI cable (recommended)	9
7.2 Connection by means of SCART cables	10
7.3 Connection of an audio system	
7.4 Connection of an external memory	
7.5 Connection of another receiver.	
FIRST STEPS	12
INFORMATION ABOUT THE USER MENU	12
8. Main menu	
9. Installation	
9.1 Auto search	
9.2 Manual Search	
9.3 Language	
9.4 Local time settings	
Menu- Installation \rightarrow Time Zone	
10 TV System	
10.1 Parental lock	
10.2 OSD settings	
11. Tools	
11.1 Schedule	
11.2 Information	
11.3 Factory settings	
11.4 Upgrade by USB	
11.5 Upgrade by OTA	
12. PVR – recording configuration	
12.1 Recordings.	
12.2 Storage info.	
12.3 TimeShift	
12.4 Timer settings	
12.5 Media Player	
13. Edit channels	
13.1 TV channels list.	
13.2 Radio channel list	
13.3 Favorite	
14. Basic functions supported by the remote control	
GLOSSARY OF TERMS.	
SPECIFICATION	

SAFETY MEASURES

We request that you read the instruction manual and recommendations set forward therein. Also remember to correctly position the 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 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 authorized service technicians.



When this crossed-out wheeled bin symbol is attached to a product it means that the product is covered by the European Directive 2002/96/EC. Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. Correct disposal of your old product helps to prevent potential negative consequences for the environment and human health.



Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed with normal household waste. Please inform yourself about the local rules on separate collection of batteries because correct disposal helps to prevent negative consequences for the environmental and human health.



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

CE logo.

The logo informs that the receiver conforms to the terms and conditions of Directive 2004/108/EC concerning observance by Member States of provisions regulating electromagnetic compatibility, and to the terms and conditions of Directives 2006/95/EC 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.



Hot surface mark CAUTION: HOT SURFACE. DO NOT TOUCH. The top surface over the internal heat sink may become hot when operating this product continuously. Do not touch hot areas, especially around the "Hot surface mark" and the top panel.



When this logo is attached to a product, it means a financial contribution has been paid to the associated national recovery and recycling system.

BASIC INFORMATION ABOUT THE RECEIVER

1. Main features

- Reception of high definition channels
- Scaling of PAL signals to a resolution of 720p, 1080i or 1080p
- Availability of 8 programmable timers
- Separate lists of favorite, TV and Radio channels
- Quick channel search function (QuickFind)
- Teletext and on-screen captions
- MPEG-2, MPEG-4, MPEG-4 AVC/H.264 standards
- Compatible with DVB-T

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 receiver

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 colored. Depending on the selected option, various "function keys" are displayed: red, yellow, green, blue and white in the form of graphics and descriptions. The colors 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

Due to the standardization of Ferguson equipment, the majority of these devices use the same remote control unit, i.e. RCU240. This means that not all keys may be used by this model!

	Turns the receiver on and sets it in standby mode.	ii/iii ⇒ F1 F2
F1	Switching between the list of television and radio channels.	F3 (1) F4
F2	Exit menu.	$\begin{array}{c} 51 \\ 1 \\ 2 \\ 3 \end{array}$
F3	Changes the image resolution. The following resolutions are available: 576i, 576p, 720p, 1080i, 1080p.	opi 14 Erno
F4	Add new event to scheduled recording.	4 5 6
1, 2, 3, 4, 5, 6, 7, 8,	Select particular channel number on a channel list.	(7) (8) (9)
9, 0	Enter numeric values.	
		info O guide
info	Displays information about the current programme.	
guide	Displays the electronic programme guide.	vol () ch →
(■)) vol ■)	Used to change the volume level (lower, higher).	
	Switches the sound on and off.	< <u>ok</u> ►
+ ch -	Switches to the next or previous channel.	text audio sub find
	Menu navigation.	AA C AA C
ok	Confirm changes.	•) FERGUSON
list	Display channel list.	RCU240
menu	Displays the main menu on-screen.	
back	Returns to the previously displayed channel.	
	Returns to the previous submenu, or exits the menu.	
text	Switches on the teletext on-screen, if this is available.	
audio	Switching between soundtrack versions, if these are available.	
sub	Switches the on-screen captions on and off, if these are available.	
find	A quick search for channels according to successive name letters.	
	Buttons used to operate the recording, playback and time shift mode functions.	
pvr	Displays the multimedia and recordings menu, if a USB memory device has been connected.	
fav	Displays a selection of favorite channel lists.	

Page A	Move a couple possitions up or down.				
ratio	Change the aspect ratio of 16:9, 4:3, etc				
edit	Add an event to the schedule recording. Move to the specified time of the movie (when watching recordings and videos from USB).				

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. Panels



POWER: Turns the receiver on and sets it in standby mode.

CH+/CH-: Switches to the next/previous channel, moves the cursor up/down in the Menu.



ANT IN:	Input of the concentric cable from the antenna.
LOOP OUT:	Output signal to another receiver. It is not RF-out.
HDMI:	Digital image and sound output to HD TV.
SPDIF (COAXIAL):	Digital coaxial audio output.
USB:	Port for connecting an external USB memory device.
TV:	SCART output, for connection to SD TV.

6. Connecting an aerial

In order to check the correctness of connection of external equipment, for example a terrestrial antenna, 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 antenna and the receiver. We strongly recommend hiring a professional technician!

7. Connecting the 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 !!!

7.1 Connection by means of an HDMI cable (recommended)

- 1. Connect the antenna to the ANT 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.



7.2 Connection by means of SCART cables

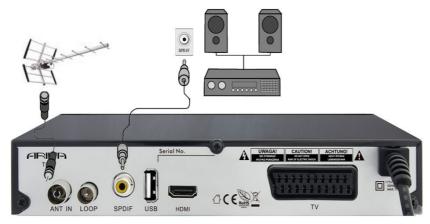
1. Connect the antenna to the ANT IN socket of the receiver.

2.Connect the television to the port in accordance with the description. We recommend using shielded SCART cables.



7.3 Connection of an audio system

Digital sound (including surround sound, if broadcast) may be obtained through socket: electrical (SPDIF).

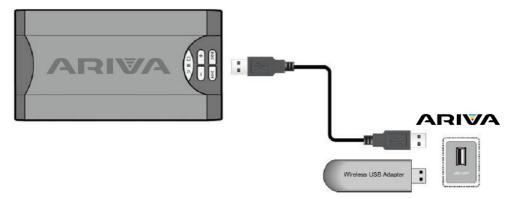


7.4 Connection of an external memory

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 NTFS (recommended) or FAT32 system.

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).

3.Connect the memory through the USB port located on the back panel.



7.5 Connection of another receiver

Another receiver may be connected through the LOOP socket.

NOTE

LOOP is the only signal loop-through. This is not a modulator, so the receiver will not let go of the image decoding (DVB-T and USB) in the form of an analog signal on this connector.

FIRST STEPS

- 1. Connect Ariva to the your television set and antenna.
- 2. Insert the Ariva plug to a wall socket.
- 3. Select AV signal source of your television set.
- 4. In order to watch channels, Ariva will automitically search channels.



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 **guide**, **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 $\blacktriangle \nabla$ arrow keys on the remote control are used to move the cursor up and down on the menu.

2. The \P arrow keys on the remote control are used to move the cursor left and right, and to switch on submenus

3. The \mathbf{OK} button is used to enter submenus.

4. The **back** 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.

8. Main menu

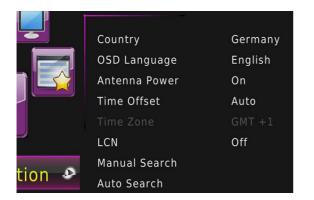
Press the **MENU** button on the remote control in order to display the following main menu, which contains six items:



- ッ installation
- •> option
- USB tools
- •>
- system •> program

9. Installation

The installation menu is used to set antenna installation parameters and to search for channels.



- Country– choose your country
- OSD Language- choose your OSD language
- Antenna Power- on/off the antenna power
- •> Time Offset- on/off the automatic GMT
- ・シー Country Region- choose your country region
- Time Zone- manual GMT settings
- LCN- on/off the provider Logical Channel Numbering
- Manual Search- manual channel scan
- Auto Search- automatic channel scan

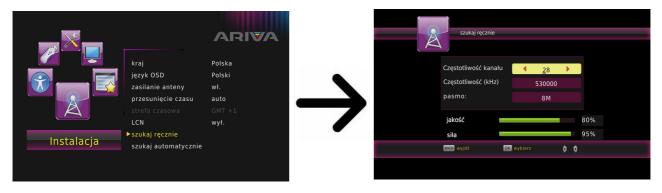
9.1 Auto search

In this menu, you can search for channels automatically - the receiver searches only frequency by frequency according to the saved list of DVB-T. This list can not be edited in a separate menu.



9.2 Manual Search

There are two search options manually. Choose the right depending on whether we know the channel or frequency with which it is assigned a channel search.



9.3 Language

This menu is used to define the language in which the receiver's menu is displayed. The preferred and second language options refer to audio soundtracks. If a given channel supports more than one audio soundtrack, the receiver will by default search for soundtracks in the selected languages in this order. The language of subtitled – as in the case of audio soundtracks, this determines the language of subtitles to be used, provided that such subtitles are available and active.



Menu- Installation → OSD Language



Menu- Option \rightarrow Subtitle Language



Menu- Option → Audio Language

9.4 Local time settings

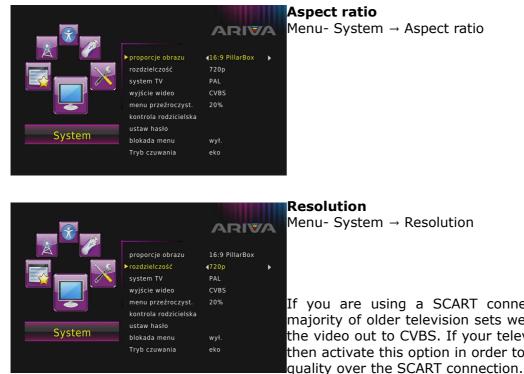
This menu is used to set the time and date. The receiver can automatically download the time and date from the signal (recommended), or you may set the time and date manually. If you are using GMT, you should select the correct time shift value (for example +1 hour for Poland) and turn on or off the summer time, depending on the time of year. The manual editing of the time and date is effected by means of RCU's arrows.



Menu- Installation \rightarrow Time Zone

10 TV System

This menu is used to set the image parameters. Above all, you should determine the resolution of the image sent over the HDMI connection. Select the highest possible resolution supported by your HD television set in order to obtain the best image quality.



If you are using a SCART connection, then for the majority of older television sets we recommend setting the video out to CVBS. If your television supports RGB, then activate this option in order to obtain better image

Additionally, in this menu you can choose the format in which the receiver will send sound over the digital connections. We recommend using PCM in order to also receive a stereophonic signal over the digital connections.



Menu- Option → Digital Audio → PCM/RAW, HDMI PCM/RAW, HDMI RAW/off

10.1 Parental lock

In this menu you may specify whether the receiver is to use a parental block or not. In addition, you can turn on or off the password protection function for selected menu options and change the default password. The default password is zeros: **000000**.



10.2 OSD settings

In this menu you can define the transparency of the menu to suit your preference.



Menu- System → Transparency

11. Tools

11.1 Schedule

This option displays a list of scheduled events and set timers.

11.2 Information

In this menu you can obtain detailed information about your software version.



Menu- Tools \rightarrow Information

11.3 Factory settings

In this menu you can restore the default settings of the receiver.



Note: Restoration of default settings results in the removal of all user settings and the recall of a default channel list; in some cases, no channel list will be available. All changes introduced by the user, including the channel list and configuration of satellite antenna settings, will be removed!!!



Menu- Tools \rightarrow Factory settings \rightarrow PIN **000000**

11.4 Upgrade by USB

This menu is used to update the receiver. The latest software is available on the manufacturer's website. The downloaded file needs to be unpacked and recorded to an external USB memory device. Next, select it and press start in order to commence the update.



11.5 Upgrade by OTA

This function is used to update receiver by OTA directly from the operator signal . This feature will only work if the operator will make it available and give the specific parameters of the update.



Menu- Tools \rightarrow OTA upgrade \rightarrow choose the upgrade values

12. PVR – recording configuration

12.1 Recordings

Menu- USB \rightarrow Multimedia \rightarrow PVR



This tab is used to play back recordings made using the receiver. Each recording may be blocked by a password, deleted, or its name changed.

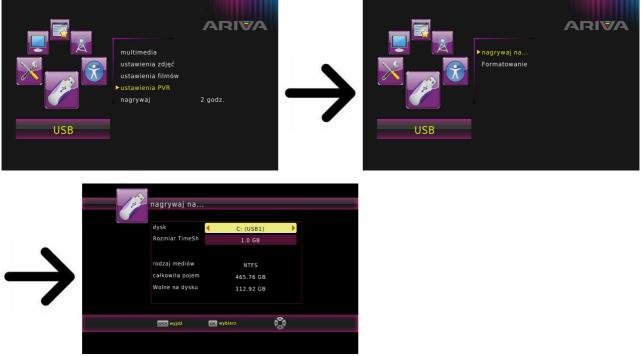
Options available during playback (subtitles, teletext, audio soundtracks) depend on the selected recording format!!!

The recordings player is available through a menu option or directly, by pressing the **pvr** button.

During playback, press the **INFO** button in order to display the information bar. Use the \blacktriangleright and \checkmark buttons to navigate within a current recording and press the \triangleright button in order to start viewing from a selected moment.

12.2 Storage info

This menu displays basic information about the connected USB memory device.

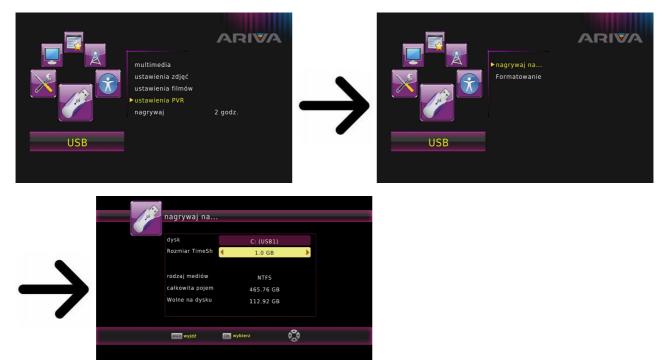


Menu-USB \rightarrow Ustawienia PVR

An additional option allows you to format the memory device. Press the yellow button in order to select the file system in which the device is to be formatted. Two options are available: FAT and NTFS. Both file systems are supported correctly, however due to the lack of limitations regarding the size of written files and greater reliability, we recommend using the NTFS system.

12.3 TimeShift

In this menu you can adapt preferences concerning recording to an external USB memory device. In the first option you decide whether you want to use the time shift option. This mode makes it possible to stop the current transmission at any moment by pressing the \blacksquare button and resume it after a break by pressing the \blacktriangleright button.

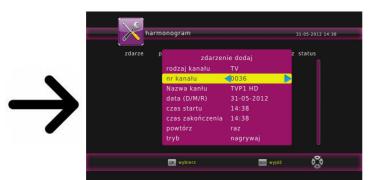


Menu- USB \rightarrow PVR Configure \rightarrow Record Device \rightarrow TimeShift Size

12.4 Timer settings

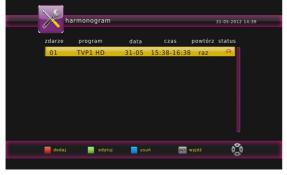
This menu serves to programme different events. Events enable the automatic switching on and off of the receiver to a previously planned programme.





Menu Tools \rightarrow Schedule \rightarrow **red** RCU button to add the timer event

In next steps please set the start time and the duration. Please save the timer.



12.5 Media Player

The receiver is equipped with a simple multimedia player. You can use it to listen to music, watch photographs and films for example mkv or avi.



There are a few additional functions that can be operated by means of the functional keys described in the lower part of the screen.

When viewing photographs, you may listen to music. To this end, activate the playback of music files and pass to the photograph tab using the **back** button.

Playable Content:

The current list of content played by Ariva on the latest software is available at ferguson.pl on the product page.

File Systems:

- ✤ FAT (FAT16 and FAT32)
- NTFS
- not larger than 2TB; GPT partition tables are not supported

Video containers:

- MPEG-1/2 Program Stream (MPG, MPEG)
- MPEG-2 Transport Stream (TS, TP, TRP, M2TS)
- MPEG-4 Part 14 (MP4)
- VOB
- AVI
- Matroska (MKV)
- AVCHD (M2TS)
- MOV (H.264)
- FLV Flash Video

Video codecs:

Most video codecs are supported up to 1080p resolution.

- XviD (except GMC)
- MPEG-1
- MPEG-2
- MPEG-4 (except GMC)
- H.264 (MPEG-4 AVC, profile HP@L5.1 only partly)
- MJPEG

Subtitle formats:

- SRT (SubRip)
- SMI (Sami)
- SUB (MicroDVD)
- SSA (SubStationAlpha)
- TXT (partly TMplayer, MPL2, SubRip, Sami, MicroDVD, SubStationAlpha) Some user-created subtitles may not work properly Some special characters are not supported HTML tags are not supported
 A movie file and external subtitle file must be located in the same folder.
 A movie file name and and it's subtitle file name must be identical to be displayed.

Photo formats:

- JPEG, HD JPEG (baseline)
- BMP
- PNG (except Interlace)

Audio containers:

- M4A
- MPEG audio (MP1, MP2, MP3, MPA)
- WAV
- OGG

Audio codecs:

- Dolby Digital (AC3, EAC3)
- DTS (only passtrough)
- MP2, MP3
- Vorbis (only stereo)
- COOK (RA-cooker)

Extensions recognized in Ariva file browser.

List of recognized multimedia file extensions are listed below. Not all files with those extensions are playable - some files may include not supported codecs and/or settings. Files with other extensions Ariva will not play.

3gp, acc, asf, avi, bmp, dat, divx, flv, jpe, jpeg, jpg, m2ts, m4a, mkv, mov, mp3, mp4, mpe, mpeg, mpg, ogg, png, tp, trp, ts, vob, wav, wma, wmv

CAUTION!!!

- Playback of some files may fail or be incorrect.
- Copy protected content is not playable.
- Playback may suffer temporary interruptions (image freeze, faster/slower playback, etc) when the audio language (audio track) is changed.
- A damaged movie file may not be played correctly.
- Videos with resolution higher than 1920x1080@25/30P or 1280x720@50/60P may not work properly.
- We do not guarantee smooth playback of movies encoded in profiles level 4.1 or higher in H.264.
- Playback of movie files with video bitrate over 30 Mbps may be incorrect.

13. Edit channels

13.1 TV channels list

Menu- Program \rightarrow TV List \rightarrow PIN **000000**

In this menu you can edit the list of television channels. Editing is effected by means of the coloured buttons on the remote control unit. Select **OK** on the selected channel in order to use it. **back**, in order to save.



How do I move a channel?

Proceed to the editing of channel lists. Select a channel and press **OK** in order to see a preview in a small window. Press the **red** button in order to turn on the channel movement function and then once again press **OK** on the selected channel. A symbol comprising two arrows will appear next to the channel name.



Use the \blacktriangle arrows to move the channel to a selected position and confirm by pressing **OK**.



Once you are finished, press **back**. A message will appear asking you to confirm the changes made. If you fail to do this, changes in the channel list will not be saved.

How do I delete a channel?

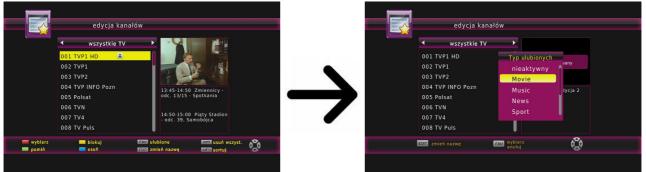
Proceed to the editing of channel lists (Menu- Program \rightarrow TV List \rightarrow PIN **000000**). Select a channel and press **OK** in order to see a preview in a small window. Press the **blue** button in order to switch on the channel delete function and **OK** on the channel that you want to remove.



Once you are finished, press **back**. A message will appear asking you to confirm the changes made. If you do not do this, the channel(s) will not be deleted.

How do I add to the group of favourites?

Proceed to the editing of channel lists (Menu- Program \rightarrow TV List \rightarrow PIN **000000**). Select a channel and press **OK** in order to see a preview in a small window. Press the **fav** button in order to switch on the add-to-favourite-groups function. A window will appear with a list of favourite groups (names of favourite groups are changed in a separate menu).



Use the $\blacktriangle \forall$ arrows to select the group to which the selected channel is to be added. Next press **OK** to confirm. Select a channel and press **OK** on this channel in order to add it to the group. The heart symbol, \forall , will appear next to the channel name.



Having completed the addition of channels to successive favourite groups, press **back**. A message will appear asking you to confirm the changes made. If you fail to do it, the changes made will not be saved!

How do I change a channel name?

Proceed to the editing of channel lists (Menu- Program \rightarrow TV List \rightarrow PIN **000000**). Select a channel and press **OK** in order to see a preview in a small window. Press the **EDIT** button in order to switch on the channel name change function. Use the virtual keyboard in order to change the channel name.



Confirm the new name by pressing **OK** (use the virtual keyboard). Once you are finished, press **back**. A message will appear asking you to confirm the changes made. If you fail to do it, the changes made will not be saved!

13.2 Radio channel list

In this menu you can edit the list of radio channels (Menu- Program \rightarrow Radio List). Editing is effected by means of the colored buttons on the remote control unit. The raised color function is active - select **OK** on the selected channel in order to use it. **back**, in order to save.



13.3 Favorite

The receiver allows you to define different groups of favourite channels. In this menu you can change the names of all of them.

Menu- Program \rightarrow TV-List \rightarrow PIN **000000** \rightarrow **FAV** on the RCU \rightarrow choose the Fav`s group \rightarrow choose with **OK** button the channel \rightarrow save the settings with **back**

To rename a select group of favorites and press **edit**. Is followed by using the virtual keyboard, enter the name. Save the changes by pressing **OK** key on your virtual keyboard.

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◀ wszystkie TV	•		(·	wszystkie TV	• •	
001 TVP1 HD 002 TVP1	Typ ulubionych	any		009 TVN 010 PUL:		ττν	owany
003 TVP2	nieaktywny FILM			011 TV6	rozszerz A B	C D E F G H	
004 TVP INFO Pozn 005 Polsat	Music 4 News	lycja 2		012 Pols 013 ESK.	małe I J wstecz Q R	K L M N O P S T U V W X	udycja 2
006 TVN 007 TV4	Sport			014 TTV 015 POL	ок ү г	0 1 2 3 4 5	
008 TV Puls			•	016 ATM -	anuluj 6 1 nuzi ywka	789!?**	
EDIT zmień nazwę	FAV wybierz anuluj	ŝ	wybierz	t	blokuj	EDT zmień nazwę	OPT usuń ws

14. Basic functions supported by the remote control

guide



This function displays a programme guide. The contents of current, future and detailed information depend on what a given station broadcasts.

Having selected a programme, you can use the timer function (**OK** button) to automatically plan the viewing or recording of a given programme.

find



The **find** button calls up the quick channel search function. Enter successive letters by choosing them one by one. The results list is updated after each successive letter is added. Press the **back** button in order to proceed to the list containing results of the search procedure and select the desired channel.

text - teletext



This function displays the teletext, provided that it is broadcast by the selected television station. Keep in mind that the correct code page (diacritical marks) is displayed depending on the language settings made in the language settings menu!

audio



The **green** audio button displays a window with available audio soundtracks. You can select any of the broadcast soundtracks. Please keep in mind, however, that audio soundtracks with AC3/DD+ surround sound may be played back solely through an amplituner connected to the digital audio out – Coaxial.

This function is also available when playing back a recording. Audio soundtracks other than those recorded by default will be available during playback only if they are not scrambled.

sub - subtitle



The **yellow** button displays a window with available on-screen captions /subtitles. You can select any of the broadcast subtitles. If subtitles for a given language have been activated in the menu, these will be marked as default on the list. You can, however, select any of the broadcast subtitles. Keep in mind that the availability of subtitles and the way in which they are displayed depends on the broadcaster!

This function is also available when playing back a recording.



When playing movies from a USB **yellow** button allows you to adjust subtitle font (size, font color, background) and change the subtitle file.

rec - recording

b This function is available only when an external USB memory device is correctly connected!!!



1. Select a channel and press the **rec** • button. The present channel will now be recorded.

 If you press the rec • button again, a list of options will be displayed, where you can determine the duration of the recording (by default, this is 2 hours).

3. In order to terminate recording, press the button and confirm your decision.

Keep in mind that during recording, the information bar may be hidden by means of the back button. In order to restore the bar, press rec • again.

Browsing through a recording – during recording.

1. The contents of a recording are available for browsing in the course of recording.

2. Use the \triangleright and \triangleleft buttons to navigate within a current recording and press the \triangleright button in order to start viewing from a selected moment.

SEMI-TWIN TUNER

The receiver is equipped with a so-called SEMI-TWIN TUNER; during recording, this function allows you to watch a different channel broadcast on the same frequency.



- 1. When recording a channel, press **OK** in order to display a list of channels available from this transponder.
- You can stop recording at any time by pressing the ■ button.

II - time shift



Solution function is available only when an external USB memory device is correctly connected!!!

The time shift mode allows the user to control the television broadcast by "pausing" and then resuming it from the same point. From the moment you switch on the time shift mode, the Ferguson receiver will constantly record the signal from the satellite in a buffer. The buffer is created automatically on the external USB memory device.

Pausing the television broadcast



1. Press 📗

2. The time elapsed bar will now be visible on the screen

3. Press the ▶ button in order to resume the television broadcast. The Ferguson receiver continues to record the television broadcast when viewing the previously broadcast programme.

Seep in mind that during buffer playback, the information bar may be hidden by means of the back button. In order to restore the bar, press II / ▶ again.

Scrolling the contents of the time shift buffer (playback of an earlier television broadcast)



1. Switch on the time shift mode by pressing \blacktriangleright .

2. The contents of the time shift buffer can now be scrolled through.

3. Use the \triangleright and \triangleleft buttons to navigate through the time shift buffer and press \triangleright in order to start playback.

Switching off the time shift mode

Switch off the time shift mode by means of the **b**utton.

Execp in mind: when no external memory device is connected to the USB port, the button is used to temporarily pause the image, i.e. freeze-frame.

info



Pressing the **info** button will call up the information bar for the current channel. This contains information about the current and next programmes (if such information is made available by the broadcaster)

If you press it twice, the receiver will display detailed information about the current and next programme – provided that such information is made available by the broadcaster.

fav – favourites



If you press the **fav** button, the receiver will display a window with groups of favourites (provided that the user has created such groups). Select group by pressing the buttons.

F1 – TV/radio



Press the **F1** button to toggle between the list of TV channels and radio stations.

DVB-T the Digital Video Broadcasting standard that defines modulation and error correction in terrestrial transmissions. 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 – uuencoded radio and television channels that may be received on any television set.

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.

HD (High Definition) - Used to describe video content that is in one of the high definition video formats. These are broadly 720i/p and 1080i/p. The 720 or 1080 refers to the number of horizontal lines used to define the picture and the "i" and "p" refer to "interlaced" or "progressive scan". Ordinary, "SD / Standard Definition" TV used 576 lines (PAL standard).

Full-HD - HD television standard for 1080p quality video, with 1080 horizontal lines.

HD Ready - HD television standard for 720p quality video, with 720 horizontal lines.

Aspect ratio: The ratio of vertical and horizontal sizes of a displayed image. The horizontal vs. vertical ratio of conventional TVs is 4:3, and that of widescreens is 16:9.

JPEG: A very common digital still picture format. A still-picture data compression system proposed by the Joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio.

XviD: MPEG-4 based video compression technology, that can shrink digital video to sizes small enough to be transported over the internet, while maintaining high visual quality.

H.264: is а next-generation video compression format. H.264 is also known as MPEG-4 AVC. Developed for use in high definition systems such as HDTV, Blu-ray as well as low resolution portable devices, H.264 offers better quality at lower file sizes than both MPEG-2 and MPEG-4 ASP (DivX or XviD). H.264 is sometimes referred (erroneously) as x264 - x264 is the name of a popular freeware encoder for the H.264 format. H.264 is also sometimes referred to as MP4, again this is technically incorrect. MP4 is a container format much like AVI or MKV and it can be used to "house" many different types of compression codecs, not just H.264.

Container. The multimedia container file is used to identify and interleave different data types. Simpler container formats can contain different types of audio codecs, while more advanced container formats can support multiple audio and video streams, subtitles, chapter-information, and meta-data (tags) along with the synchronization information needed to play back the various streams together. There are many container formats, such as AVI, Matroska (MKV), MOV, MP4, OGM, WAV, etc.

PCM (Pulse Code Modulation): A system for converting analog sound signal to digital signal for later processing, with no data compression used in conversion.

S/PDIF - Format for carrying audio digitally over either optical (TOSLINK) or electrical (Coaxial) cable. Can carry high quality DTS or Dolby Digital audio.

SPECIFICATION

Main Features						
	STB Type	DVB-T Receiver				
	Main Chipset	MSTAR 7818-L2				
Special Features						
	Encrypt	ASIC Type				
	TUNER Type	Onboard Design				
	Demodulator Type	Onboard Design				
	SMPS Type	Separate SMPS				
Mechanical						
	Dimension	W:22.0 cm,D:12.2 cm,H:3.8 cm				
Main Chin (Net Weight	0.7 kg				
Main Chip S						
	CPU frequency	550 MHz				
	Flash Memory	1PC 32 Mbit / 4 MiB				
	SDRAM Memory	1PC 64X16 Mbit / 128 MiB DDR2-1066				
DVB-T tune		Onhoard Tunor				
	Tuner Type Frequency Range	Onboard Tuner 177.5~227.5 MHz;474~858 MHz;				
	Input Impedance	177.5~227.5 MHZ;474~858 MHZ; 750				
	Active Ant Power	50 5VDC @ 50mA MAX, Overload Protection				
	Active Ant Fower	64QAM:-78.5dBm~-8.75dBm~16QAM:-84.1dBm~-				
	Input Level Range	8.75dBm;QPSK:-90.3dBm~-				
		8.75dBm				
	ANT Loop-Through	51MHz~858MHz full Band loop through				
TS Demux						
	Demultiplexer	MPEG2 ISO/IEC 13818-1				
	Input Bit Rate	Max 100Mbit/s				
Video Decode						
	Video Decode	MPEG2 ISO/IEC 13818-2 MP@ML, H.264(MPEG4 part 10)				
	Acrest Datio	main and high profile level 4.1/MPEG-2 MP@HL				
	Aspect Ratio	4:3, 16:9				
Audio Doco	Video Resolution	1920×1080, 1280×720, 720×480				
Audio Deco		MPEG-1 layerI/II, MPEG-2 layer II, MPEG-2, MPEG-4 LC				
	Audio Decode	2ch/5.1ch				
	Sampling Frequency	32 kHz, 44.1 kHz, 48 kHz				
AV Output						
	Video Bandwidth	SD:5.0 MHz (-3dB), HD:30 MHz (-3dB)				
	Video Impedance	750				
	Video Voltage Level	1.0 Vp-p				
	Audio Freq. Range	20 ~ 20 kHz				
	Audio Impedance	600O				
	Audio Voltage Level	2V rms(5.6Vp-p)				
Environmer	nt					
	Input Voltage	AC 175~250V~50Hz/60Hz				
	Consumption	Max 10 W				
	Temperature	0~40				
	Humidity	<95%				

Help

Newest firmware, manuals and other materials are available on: www.ferguson-digital.eu > "Download"

FAQ: www.ferguson-digital.eu > "FAQ"

Technical support:

www.ferguson-digital.eu > "Technical Support"



www.ferguson-digital.eu