

The ARIVA logo is displayed in a bold, black, sans-serif font. A small, stylized triangular icon with blue, yellow, and red horizontal stripes is positioned above the letter 'V'.

ARIVA

The text 'User manual' is centered on the page in a white, sans-serif font.

User manual

T750i

English

The FERGUSON logo features a red icon of a stylized arrow pointing right, followed by the word 'FERGUSON' in a bold, white, sans-serif font.

FERGUSON

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 built-in 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!

SAFETY MEASURES

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



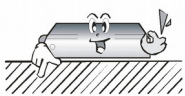
In order to avoid an electric shock, never open the housing. Damage to the warranty seal shall void the warranty.



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.



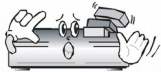
Place the device horizontally on a flat, even and stable surface.



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 terrestrial television receiver are up to date. Ferguson reserves itself the right to amend, change or modify the software used in the terrestrial 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 Sp. z o.o. has made every effort to provide the most current information about its products. Ferguson Sp. z o.o. 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 Sp. z o.o. 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.

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BASIC INFORMATION ABOUT THE RECEIVER

1. Main features

- ✓ Reception of high definition channels
- ✓ Scaling of PAL signals to a resolution of 720p or 1080p
- ✓ Availability of programmable timers
- ✓ Separate lists of favourite, 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/T2 system



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 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.





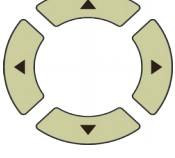



NOTE:




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

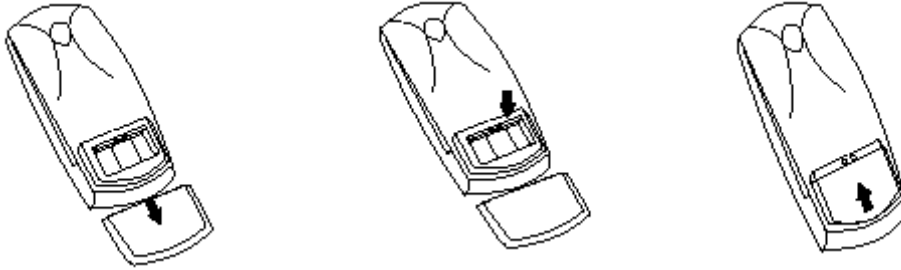
Due to the standardization of Ferguson equipment, the majority of these devices use the same remote control unit RCU240.

	Turns the receiver on and sets it in standby mode.
F1	Switching between the list of television and radio channels.
F2	Exit menu.
F3	Changes the image resolution. The following resolutions are available: 576i, 576p, 720p, 1080i, 1080p.
F4	Add new event to scheduled recording.
1, 2, 3, 4, 5, 6, 7, 8, 9, 0	Select particular channel number on a channel list. Enter numeric values.
info	Displays information about the current programme.
guide	Displays the electronic programme guide.
	Used to change the volume level (lower, higher).
	Switches the sound on and off.
	Switches to the next or previous channel.
	Menu navigation.
	Switching between the list of television and radio channels.
menu	Exit menu.
back	Changes the image resolution. The following resolutions are available: 576i, 576p, 720p, 1080i, 1080p.
text	Add new event to scheduled recording.
audio	Select particular channel number on a channel list. Enter numeric values.
sub	Displays information about the current programme.
find	Displays the electronic programme guide.
 	Used to change the volume level (lower, higher).
pvr	Switches the sound on and off.
fav	Switches to the next or previous channel.



	Menu navigation.
ratio	Switching between the list of television and radio channels.
edit	Exit menu.

4.1 Installation of batteries

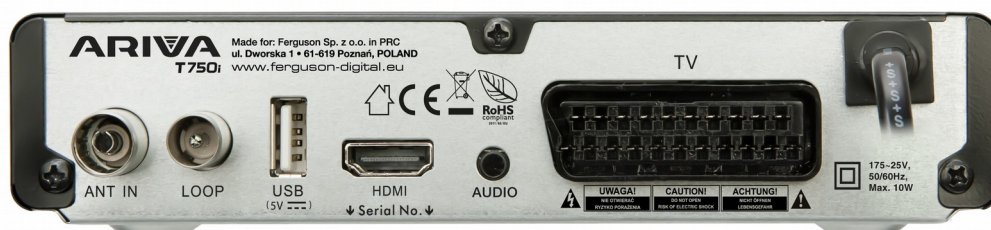


Remove the cover of the battery compartment on the rear panel of the remote control unit; slide it downwards and put it aside. Insert two AAA (R03) batteries into the compartment, observing the indicated polarity. **Do not mix old and new batteries, or batteries of different types.** Replace the battery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

5. Front panel



6. Rear panel



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.
AUDIO:	Digital/analog audio output.
USB:	Port for connecting an external USB memory device.
TV:	SCART output, for connection to SD TV.

7. Connecting the terrestrial antenna

There are no special antennas for DVB-T. For collection of digital television, the same antennas as analog TV reception. There is no need to change the antenna system. It is worth to check the quality and condition of the plant, which has so far been used for analog TV reception. Reception problems can be weathered with old antenna systems, or grid antennas. It is recommended to use directional antennas with signal amplifier, depending on the particular situation you may also establish impedance transformer. Indoor antenna may be used only in areas with high signal intensity.

8. 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 !!!

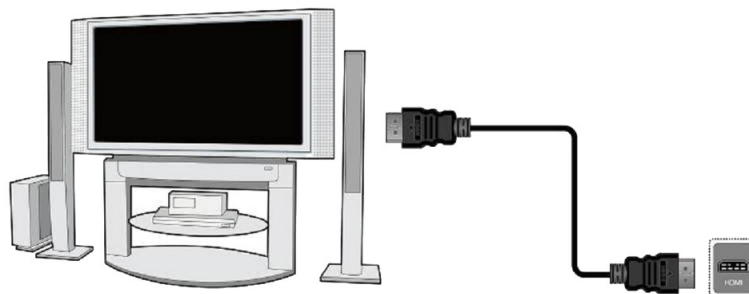


Note: Availability and type of connection depends on your receiver model! Not all of the connections are applicable for your receiver!

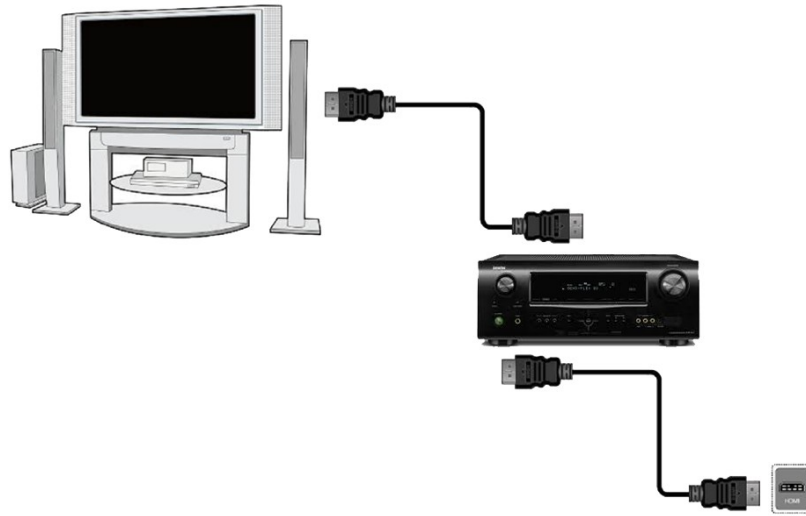
8.1 Connection by means of an HDMI cable (recommended)

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.

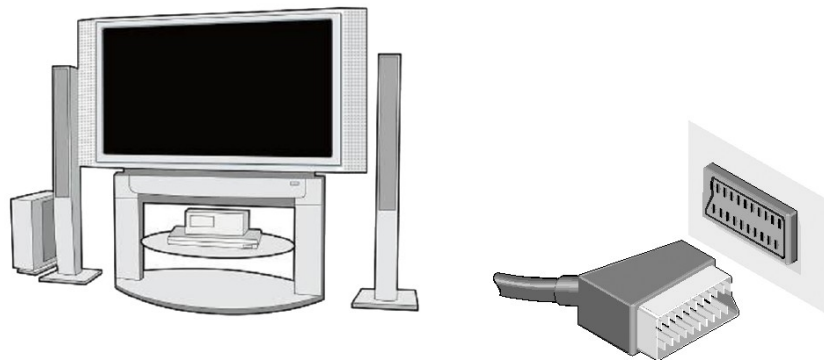


If you have an amplifier with an HDMI out and in, which supports sound sent over HDMI, connect the devices by two HDMI cables. As in the following figure: one cable to the amplifier, and the other from the amplifier to the television set.



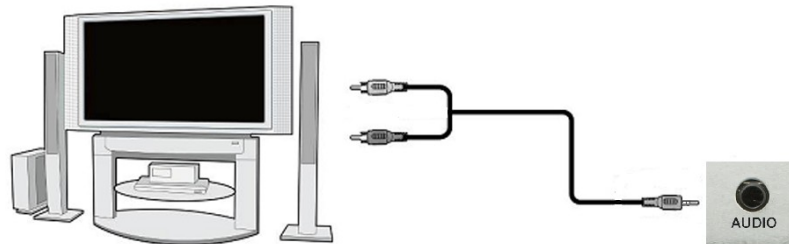
8.2 Connection by means of SCART cables

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.



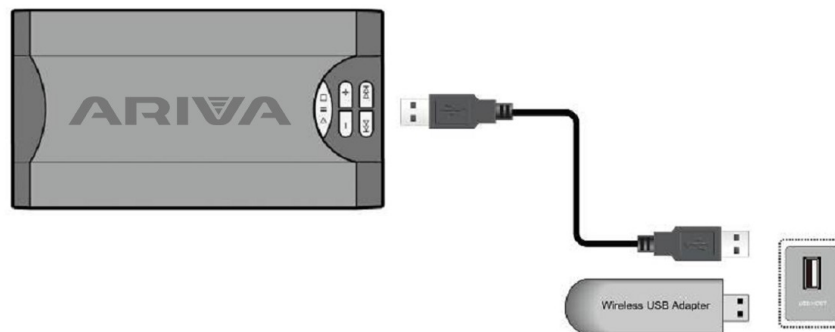
8.3 Connection of an audio system

- Digital sound (including surround sound, if broadcast) can be obtained from AUDIO socket.
- Analoge sound can be obtained from the same AUDIO output.



8.4 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 NTSF (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).



8.5 Connection to the local network



WiFi is supported only when plugged into the USB port is free WiFi USB adapter based on Ralink chipset Rt5370. Available as a separate accessory.

8.6 Connection of another receiver

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



NOTE: LOOP output in terrestrial receivers 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. Insert the plug of the receiver and other additional devices to a wall socket.
2. Select AV signal source of your television set.
3. Please follow the installation wizard or do the channel scan using one of integrated scan modes.



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

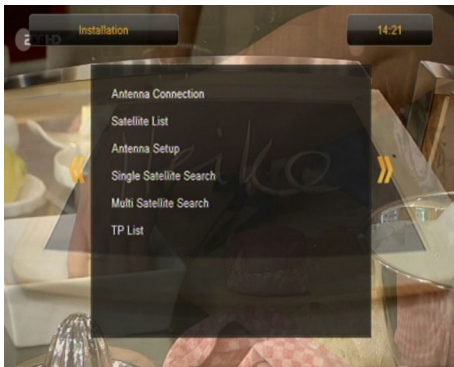
INFORMATION ABOUT THE USER MENU

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 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 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.

9. Main menu

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



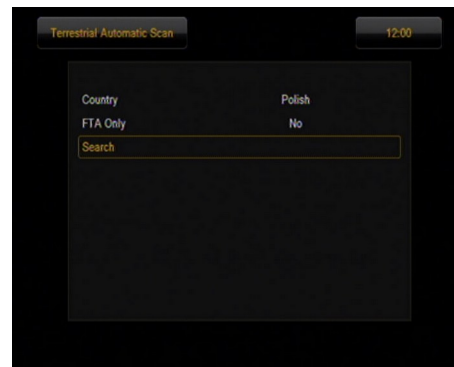
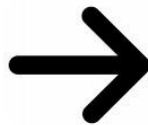
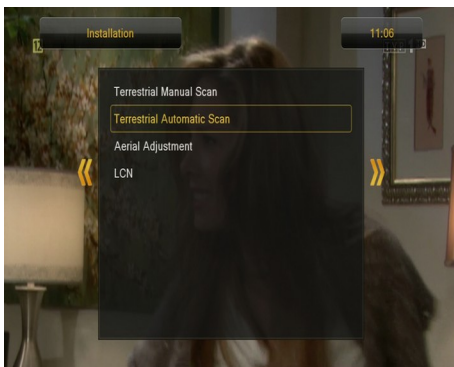
1. edit channel list
2. installation
3. system setup
4. tools
5. entertainment
6. record manager

10. Installation

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

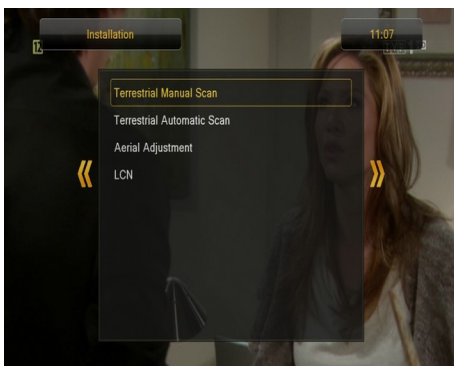
10.1 Terrestrial Automatic Scan

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.



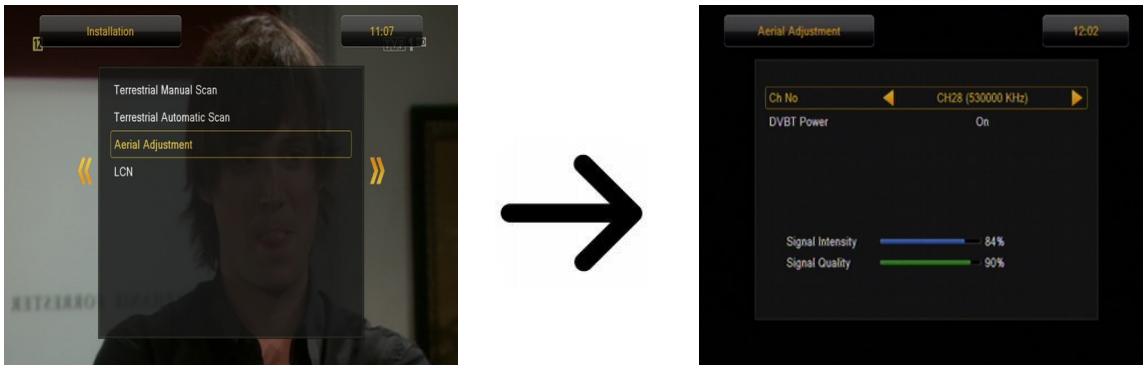
10.2 Terrestrial Manual Scan

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.



10.3 Aerial Adjustment

In this menu, set the detailed parameters of the terrestrial antenna. By setting or fixing the antenna you should remember that the signal bars appear with a delay!

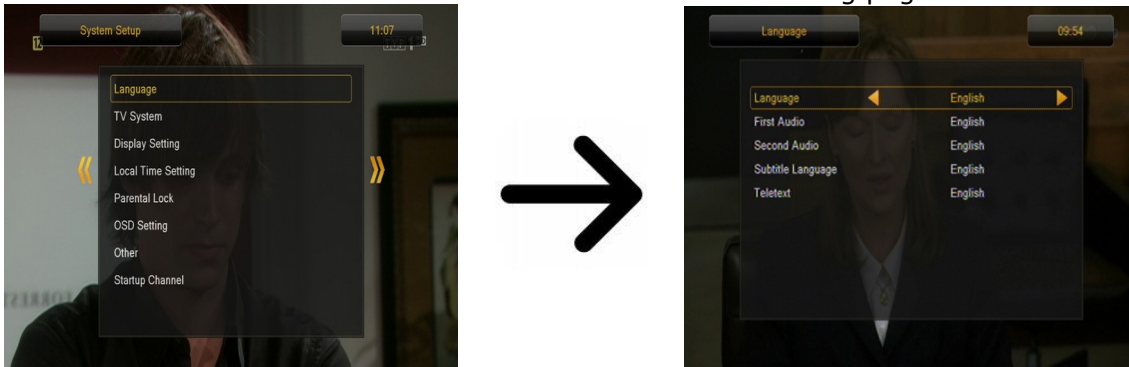


The correct setting of the antenna is indicated by bars presenting the strength and quality of the signal. Both should indicate more than 80% for channel reception to be free of interference.

11. System settings

11.1 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. Teletext - defines the character coding page for the teletext.

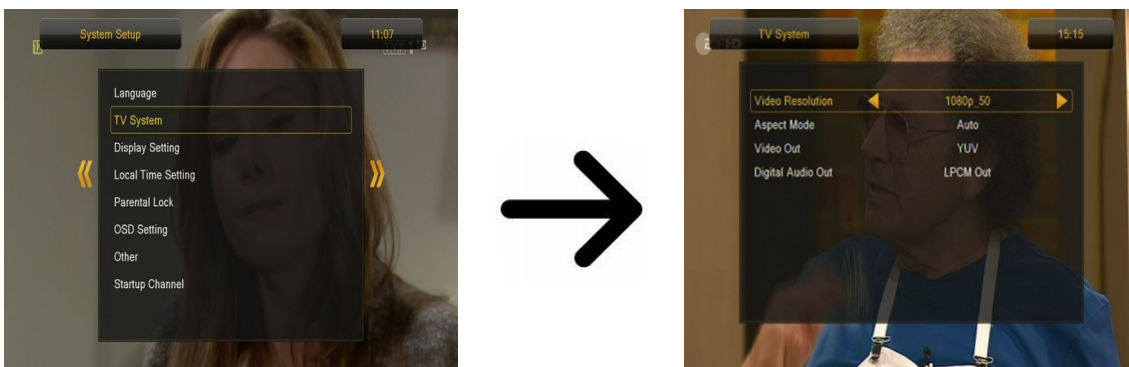


11.2 TV System

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. The following resolutions are available: 480i, 480p, 576i, 576p, 720p (50Hz), 720p (60Hz), 1080i (50Hz), 1080i (60Hz), 1080p (50Hz), 1080p (60Hz). If you select an unsupported resolution, your image will be lost or become illegible – you can always use the **F3** key to return to the basic resolution, i.e. 576i.

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

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



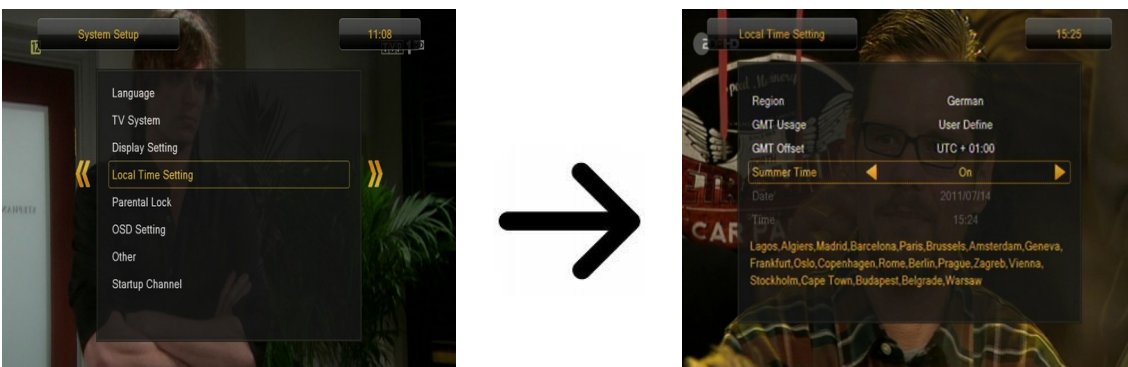
11.3 Display setting

This menu is used to adjust the image displayed by the receiver. You can change the brightness, contrast and colour saturation. By default, all of these values are set to 50.



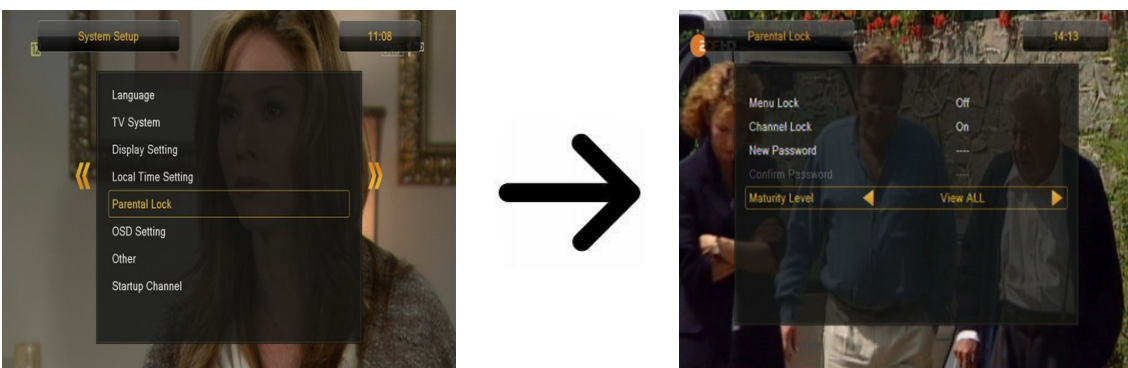
11.4 Local time settings

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 the numerical buttons.



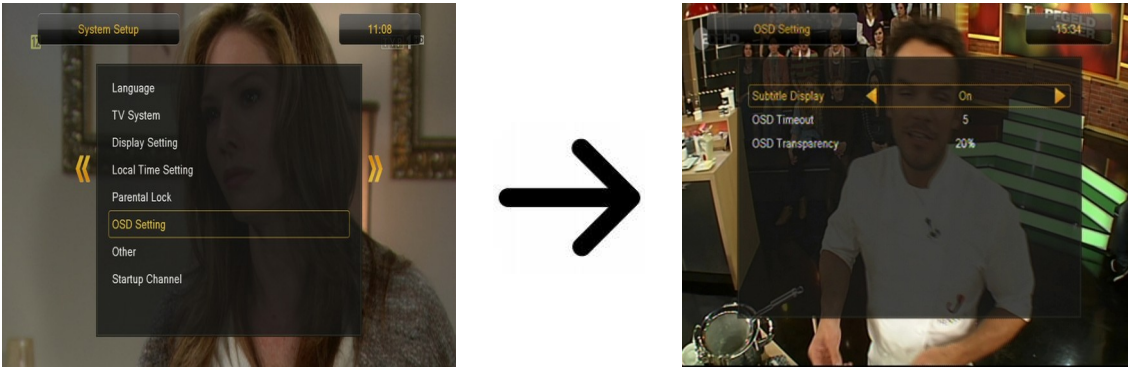
11.5 Parental lock

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 four zeros: **0000**.



11.6 OSD settings

In this menu you can define the basic parameters of the on-screen menu (OSD). The first option concerns support for the subtitles. If the subtitles are turned on, the receiver will display them for channels that transmit such subtitles. By default, they are displayed in the language specified in the language selection menu for the subtitles. Another option determines the time for which information bars will be displayed; the default setting is 5 seconds. In addition, you can specify the transparency of the menu to suit your preference.



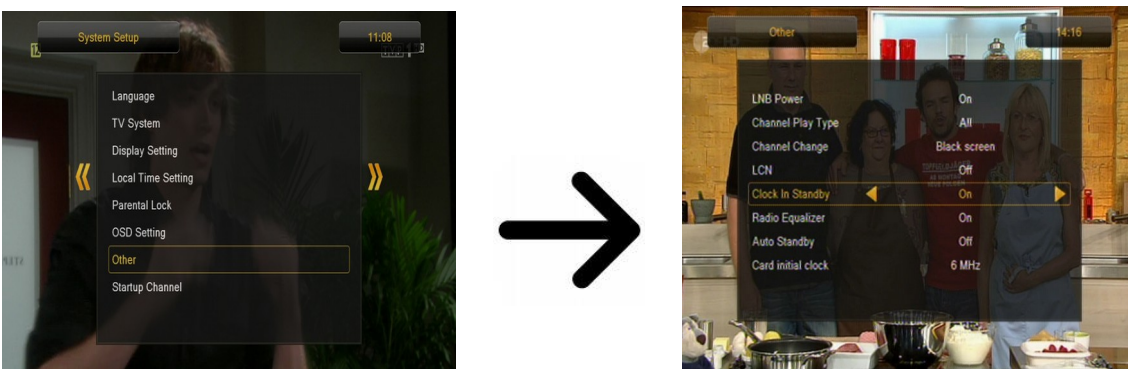
11.7 Startup channel

In this menu you can specify the television or radio channel to which the receiver will be switched on. This function is switched off by default, and this means that the receiver will switch to the channel on which it was turned off.



11.8 Other

In this menu you can change the remaining options, such as the power supply of the tuners, select the types of channels played, and how the receiver is to behave when switching channels.



Clock In Standby enables or disables the clock on the front panel display in standby mode.



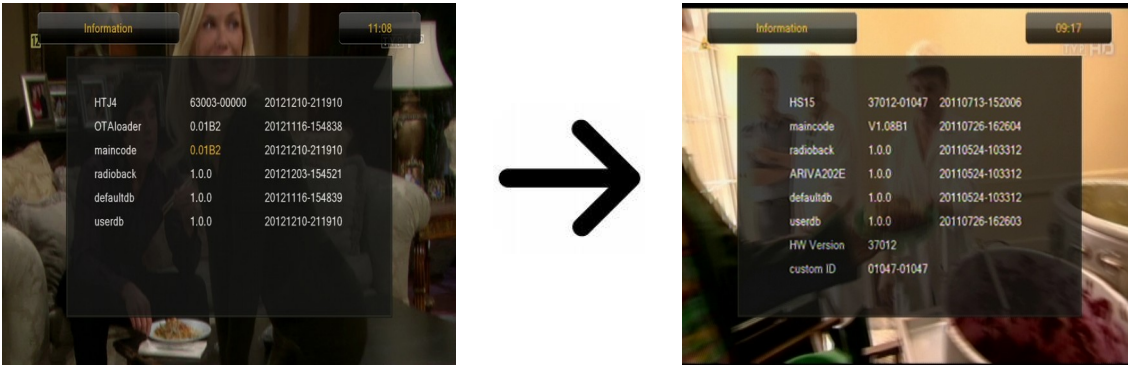
Note: *only if the clock in standby mode is off the receiver draws less than 1W of energy!!!*

- Radio Equalizer** enables or disables the audio graphic equalizer display while listening to radio stations.
- Auto Standby** run this option will automatically turn off the receiver after 3 hours of inactivity.

12. Tools

12.1 Information

In this menu you can obtain detailed information about your software version. The software structure is divided into a number of independent databases. The most important of these from the point of view of the user is the **userdb**, which archives current settings and channel lists. The receiver's software version is a symbol placed next to **maincode**.



12.2 Factory settings

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

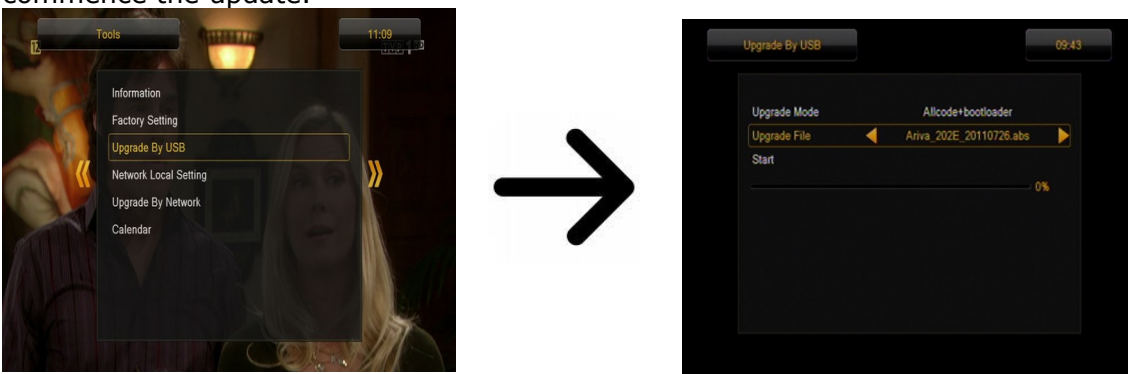


Note: Restoration of default settings results in the removal of all user settings and the recall of a default channel list; in some cases, no channel list will be available. All changes introduced by the user, including the channel list and configuration of terrestrial antenna settings, will be removed!!!



12.3 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 by means of the LEFT/RIGHT buttons and press start in order to commence the update.



12.4 Local network settings

This menu serves to configure addresses and DNS servers. These options concern the external Wifi dongle, which enables the exchange of data over the network.



12.5 Upgrade by network

The receiver allows you to update software over the Internet. Detailed information about current connection parameters can be found on the manufacturer's website.



13. Entertainment

The receiver allows access to certain network services and embedded games.

- Tetris (classic arranging of successive levels using blocks of various shapes).
- Othello (a logical game, which consists in the placement of your colour on a board and changing your opponent's colour; the person whose colour dominates, wins).
- Sudoku (the game consists in completing diagrams with numbers from 1 to 9 in such a way that each column and each line contains each number from 1 to 9).



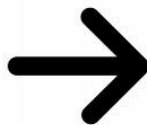
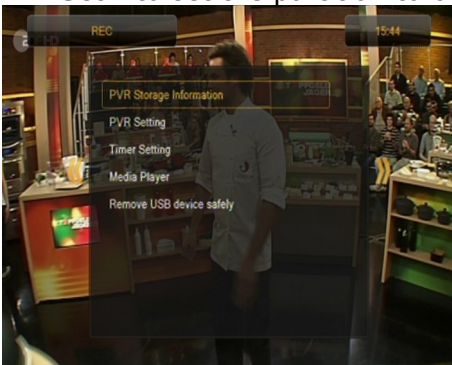
The availability of these services depends on their suppliers. The manufacturer is not responsible for any lack of access to additional functionality.

14. PVR – recording configuration

14.1 Storage info

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

DVRSet - to set the partition to be used for recording.



14.2 DVR configuration

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 **PAUSE** button and resume it after a break by pressing the **PLAY** button.

Another option allows you to switch on or off the buffering of data gathered by the TimeShift function. This means that once you press the **REC** button, the contents of the buffer will be recorded and the recording shall be continued. This option is inactive by default, which means that once you press the **REC** button, the receiver will start recording from that moment on.



In this menu you can also determine the type of recorded files. All data are recorded in TS (transport stream) format or in an abbreviated version, with only the default sound and video in PS (program stream) format. We recommend using the TS format, which records the audio soundtracks, video, subtitles and teletext.

The "Jump" option concerns the playback of recordings. It defines the time of rapid movement by means of they \blacktriangle / \blacktriangledown forward/back keys, respectively, during playback.

Duration - the default duration of the manual recording.

After the Timer Record - the behavior of the receiver after recording a scheduled event.

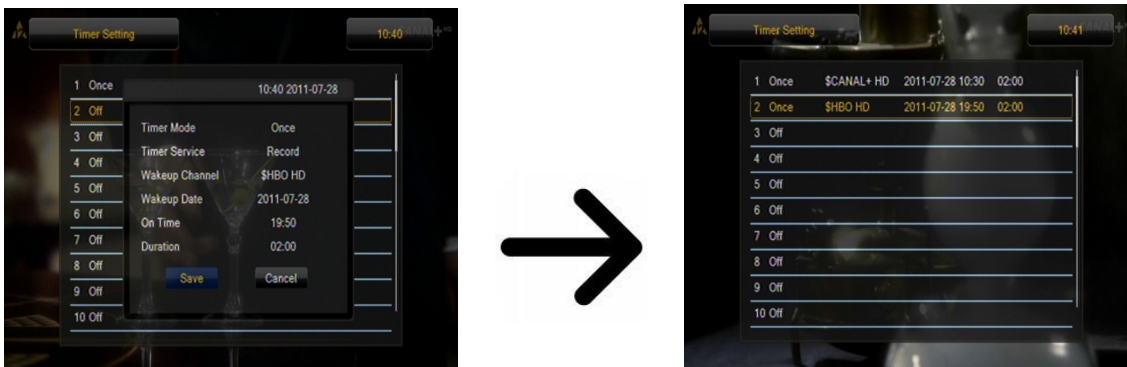
Recordings are automatically split the recording and combined automatically during playback. The "TS file size" specifies the amount of data, after which the recording is split.

14.3 Timer settings

This menu serves to programme up to 32 different events. Events enable the automatic switching on and off of the receiver to a previously planned programme.



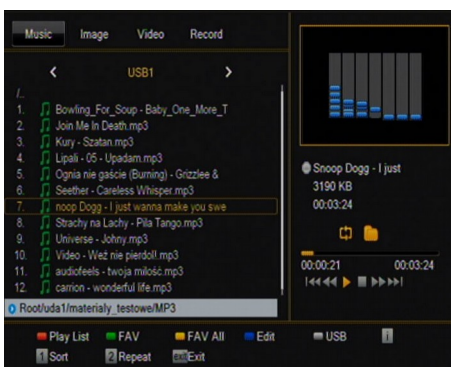
Select the event that you want to programme and press OK. Set the timer activation frequency. Select the channel (press OK to display the simplified channel list). Next set the date, start time and duration. Select 'record' to return to the events list. A new item has been added.



14.4 Media Player

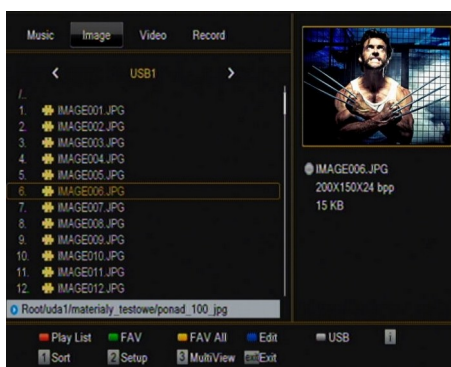
The receiver is equipped with a simple multimedia player. You can use it to listen to music, watch photographs and films, and - first and foremost - play back recordings. The player is available through a menu option or directly, by pressing the **PVR** button.

Music



In this tab you can support a number of popular formats of music files, such as MP3, FLAC or OGG. There are a few additional functions that can be operated by means of the functional keys described in the lower part of the screen.

Photos



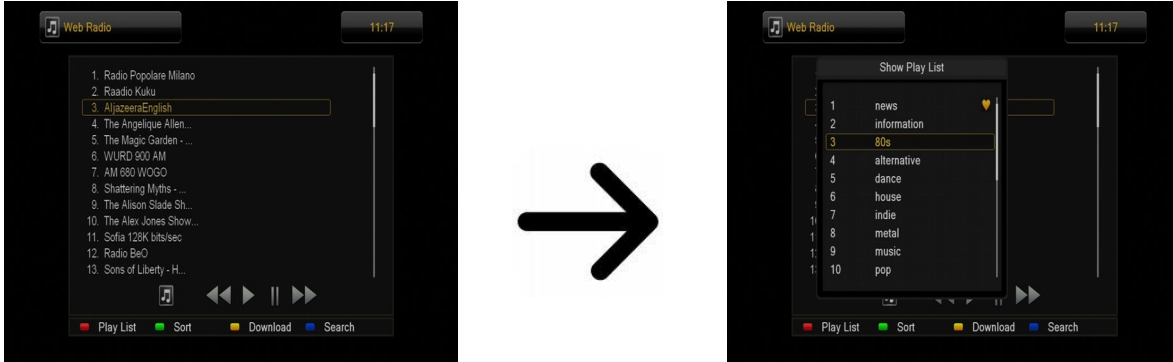
In this tab, you can view photographs in JPEG, BMP format. There are a few additional functions that can be operated by means of the functional keys described in the lower part of the screen.



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 LEFT/RIGHT buttons.

Web radio

The receiver support system for receiving audio in the form of a data stream - the so-called Internet Radio. This feature works only with a properly configured connection to the Internet. Press [Yellow] button to get a current list of radio stations in chosen category. Categories can be changed by selecting [Red] button. It should be remembered that each press [Yellow] button will overwrite selected list file.



Internet radio playback depends on network connection speed and stability.

Note that some of the servers can be full when trying to access them, in this case radio will not be played. The maximum number of simultaneous listeners allowed depend on server settings.

Video



In this tab, you can play back movie files. Also high resolution files can also be played back.

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.

Video files containers: AVI, MKV, MPEG, MPG, M2TS, VOB, TS, TRP, MP4, DVR (default record format)

- |
- | -> video codec supported in containers: mpeg2, XVID, H.264 (up to 8 RF)
- | -> audio codec supported in containers: MP3, AC3

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.

Recordings



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!!!

During playback, press the INFO button in order to display the information bar. There are a few different methods of quick viewing/scrolling a recording:

1. Use the Fast forward and Rewind buttons to navigate within a current recording and press the PLAY button in order to start viewing from a selected moment.
2. You can set the red cursor by means of the LEFT/RIGHT buttons and confirm with OK in order to start viewing from a selected moment.
3. Another method consists in moving by means of the ▲ / ▼ keys. Scrolling is effected by the number of minutes defined in the DVR configuration menu. Keep in mind that this function is available only when the time of the recording exceeds the selected scroll time.
4. Another option of quick scrolling a recording is based on usage of the numerical keys. This results in scrolling in accordance with the value applied, i.e. 4 in order to pass to 40% of the recording, 5 in order to pass to 50% of the recording, etc.

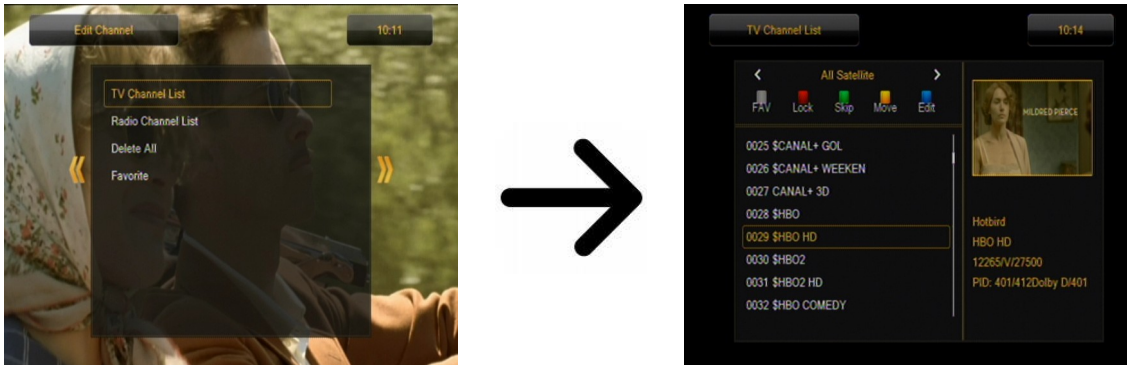
14.5 Safe removal of a USB device

This function allows you to rapidly and, what is most important, safely remove any USB memory device connected to the receiver. In the case of flash memories or portable disks, this prevents the loss of data when disconnecting the USB memory device. Always use this option before disconnecting a USB memory device!

15. Edit channels

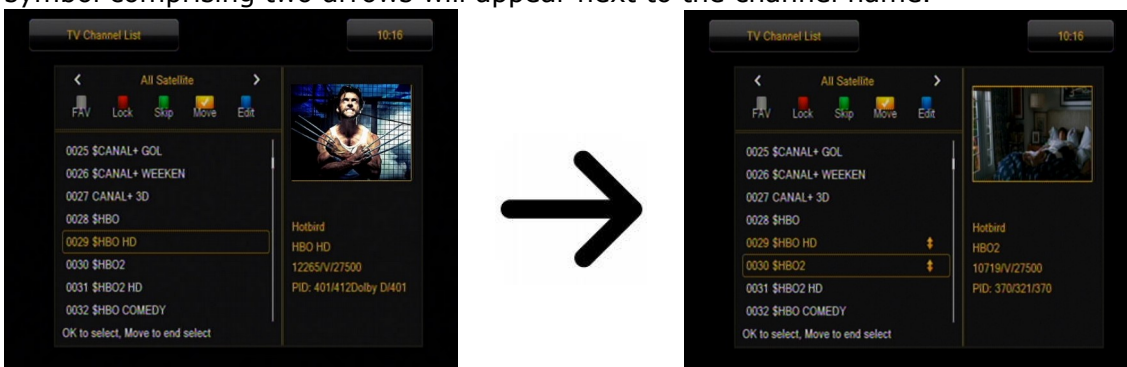
15.1 TV channels list

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. The raised colour function is active - select OK on the selected channel in order to use it. BACK, in order to save.

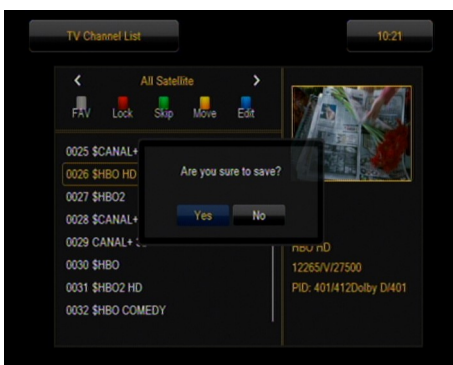


How do I move a channel?

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 yellow button in order to turn on the channel movement function and then once again press OK on the selected channel (you can select multiple channels). A symbol comprising two arrows will appear next to the channel name.



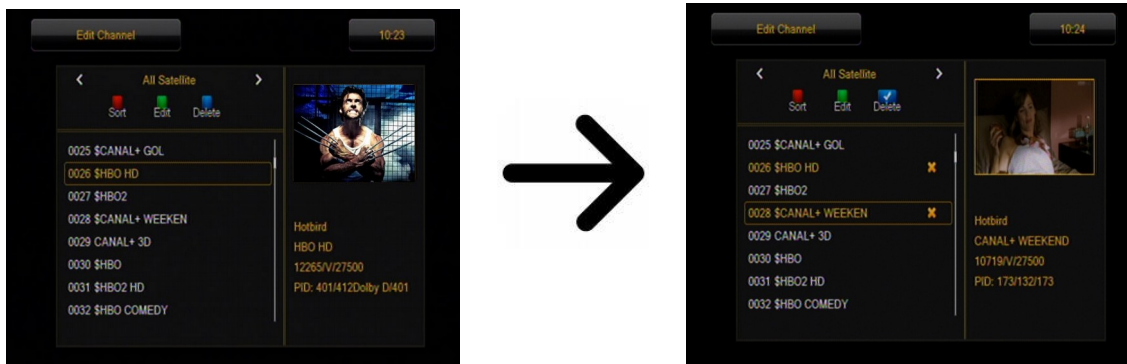
Press [Yellow] button and use the up / down arrows move the cursor to the desired position. Press OK to confirm the move. Next press the yellow button again in order to switch off the channel movement function.



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?

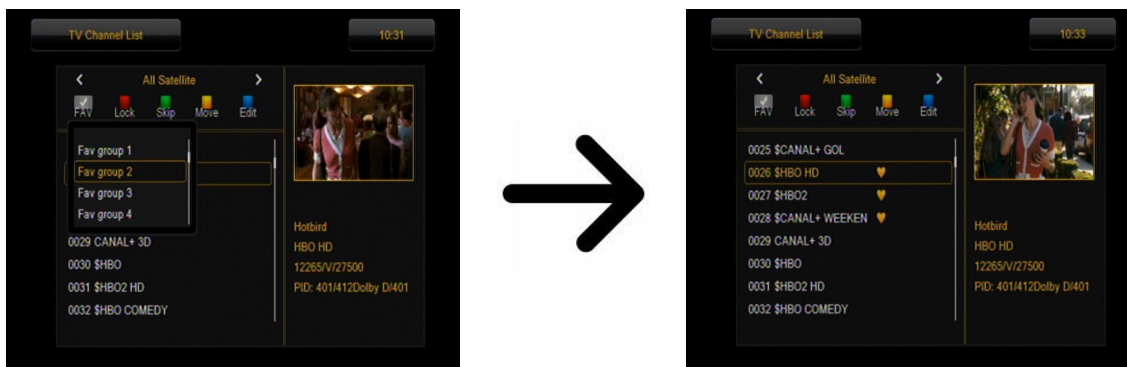
Proceed to the editing of channel lists. Select a channel and press OK in order to see a preview in a small window. Press the blue button in order to pass to the channel edition menu. Press the blue button in order to switch on the channel delete function and OK on the channel that you want to remove. The symbol **X** will appear next to the channel name.



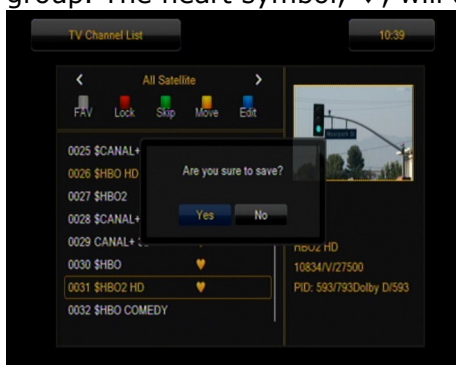
Next press the blue button again in order to switch off the channel delete function. In this way you can mark one or more channels that you want to delete with the **X** symbol. Once you are finished, press **BACK**. A message will appear asking you to confirm the changes made. If you do not do this, the channel(s) will not be deleted.

How do I add to the group of favourites?

Proceed to the editing of channel lists. 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 up/down 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, ♥, will appear next to the channel name.

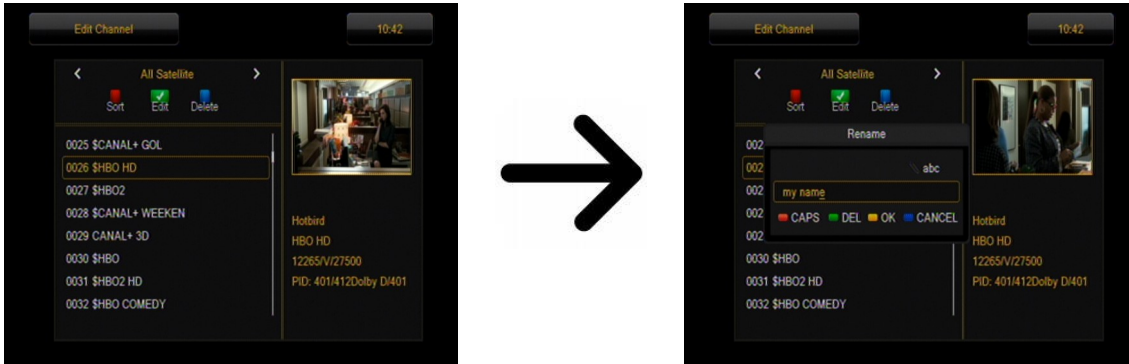


Once you are finished, press FAV in order to switch off the add-to-favourite-groups function.

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. Select a channel and press OK in order to see a preview in a small window. Press the blue button in order to pass to the channel edition menu. Press the green button in order to switch on the channel name change function. Use the numerical keyboard in order to change the channel name.



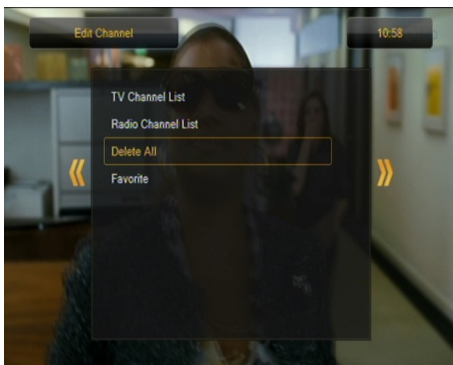
Confirm the new name by pressing the yellow button. Next press the green button again to switch off the channel name change function. In this way you can change the name of one or more channels. Once you are finished, press BACK. A message will appear asking you to confirm the changes made. If you fail to do it, the changes made will not be saved!

15.2 Radio channel list

In this menu you can edit the list of radio channels. Editing is effected by means of the coloured buttons on the remote control unit. The raised colour function is active - select OK on the selected channel in order to use it. BACK, in order to save.



15.3 Delete all

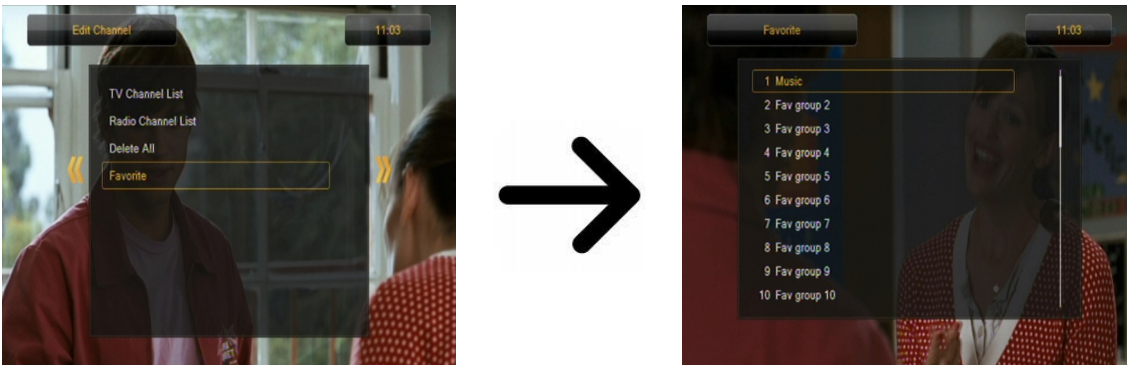


This option allows you to remove all channels from the channel list. Note: This operation cannot be reversed! Make sure that you are certain that you want to remove all of the channels?

Having selected this option, you should wait a while for all of the options available for the channel list to be highlighted as unavailable.

15.4 Favorite

The receiver allows you to define up to 32 different groups of favourite channels. In this menu you can change the names of all of them.

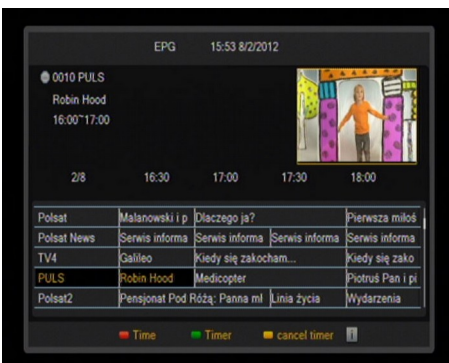


In order to change a name, select the favourites group and press OK. Next use the numerical and coloured buttons to input the name. Confirm the changes by pressing the yellow button on the remote control.



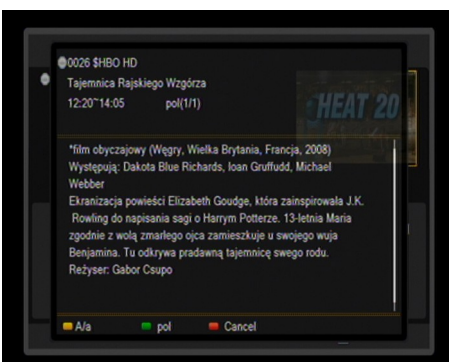
16. Basic functions supported by the remote control

16.1 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 (green button) to automatically plan the viewing or recording of a given programme.



Select the desired programme and press **info** in order to view detailed information about the programme. Keep in mind that the availability of the said information depends on what a given television station is broadcasting.

16.2 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 blue button in order to proceed to the list containing results of the search procedure and select the desired channel.

16.3 TXT - 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!

16.4 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 surround sound may be played back solely through an amplifier connected to the digital audio out - Coaxial or Optical.

This function is also available when playing back a recording, provided that the material was recorded in TS format. Audio soundtracks other than those recorded by default will be available during playback only if they are not scrambled or scrambled in the same way as the default recorded

soundtrack.

Option [level] can adjust the volume of the channel. This option works independently for each channel.

16.5 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, provided that the material was recorded in TS format.

16.6 REC - recording

 *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.
2. 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. The information bar indicates which programme you are recording and viewing.
4. In order to terminate recording, press the STOP 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 Fast forward and Rewind buttons to navigate within a current recording and press the PLAY button in order to start viewing from a selected moment.
3. You can set the red cursor by means of the LEFT/RIGHT buttons and confirm with OK in order to start viewing from a selected moment.
4. Another method consists in moving by means of the ▲ / ▼ keys. Scrolling is effected by the number of minutes defined in the DVR configuration menu. Keep in mind that this function is available only when the time of the recording exceeds the selected scroll time.
5. Another option of quick scrolling a recording is based on usage of the numerical keys. This results in scrolling in accordance with the value applied, i.e. 4 in order to pass to 40% of the recording, 5 in order to pass to 50% of the recording, etc.

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.

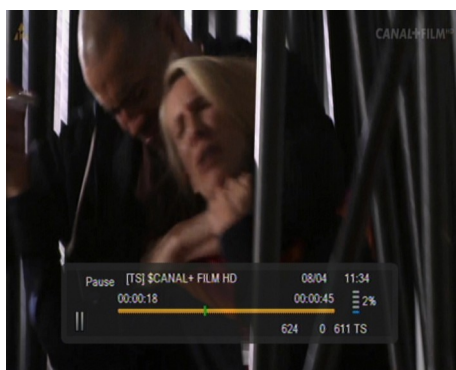
1. When recording a channel, press OK in order to display a list of channels available from this transponder.
2. If the recorded channel is not scrambled (FTA) - select any other channel, which you want to watch.
3. If the recorded channel is scrambled - select any other not scrambled (FTA) channel, which you want to watch.
4. You can stop recording at any time by pressing the STOP button.

16.7 PAUSE - time shift




 *This 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 terrestrial in a buffer. The buffer is created automatically on the external USB memory device.



Pausing the television broadcast



1. Press **PAUSE**
2. The time elapsed bar will now be visible on the screen
3. Press the **PLAY** button in order to resume the television broadcast. The Ferguson receiver continues to record the television broadcast when viewing the previously broadcast programme.

 *Keep 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 PAUSE/PLAY again.*

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



1. Switch on the time shift mode by pressing PAUSE.
2. The contents of the time shift buffer can now be scrolled through.
3. Use the Fast forward and Rewind buttons to navigate through the time shift buffer and press PLAY in order to start playback.
4. You can set the red marker by means of the LEFT/RIGHT buttons and confirm with OK in order to start playback from a selected moment.

5. Another method consists in moving by means of the  /  keys. Scrolling is effected by the number of minutes defined in the DVR configuration menu. Keep in mind that this function is available only when the buffer time exceeds the selected scroll time.

Recording the time shift buffer



1. This option is available only if previously switched on in the receiver's menu.
2. Switch on the time shift mode by pressing **PAUSE**.
3. Press REC in order to record the existing buffer and continue recording the channel.
4. Perform further operations in accordance with description given for the recording function.
5. It is also possible to view the contents of the current recording as above.

Switching off the time shift mode

Switch off the time shift mode by means of the STOP button.

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

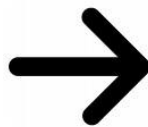
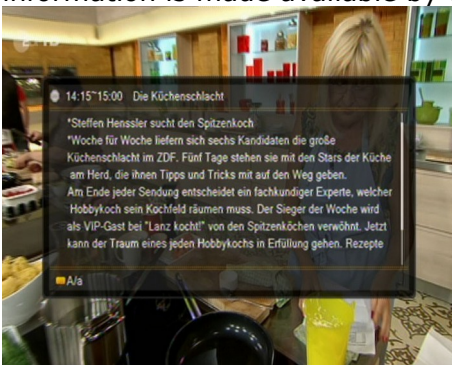
16.8 INFO



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 (select by pressing the LEFT/RIGHT buttons)

If you press it three times, the receiver will display complete weekly information the program – provided that such information is made available by the broadcaster.



16.9 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).

ATTACHMENT A - GLOSSARY OF TERMS

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/terrestrial 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.

LCN - logical channel number (LCN), also known as virtual channel as used in ATSC SI data, is a channel designation which differs from that of the actual radio channel (or range of frequencies) on which the signal travels.

ATTACHMENT B - SPECIFICATION

Main Features	
STB Type	DVB-T Receiver
Main Chipset	ALI M3821
Special Features	
Encrypt	ASIC Type
TUNER Type	Silicon Tuner
SMPS Type	Separate SMPS
Mechanical	
Dimension	W:17.0 cm,D:11 cm,H:3.5 cm
Net Weight	0.6 kg
Main Chip Sets	
CPU frequency	1280 DMIPS
Flash Memory	1PC 62 Mbit / 8 MB
SDRAM Memory	1PC 64X16 Mbit / 128 MB DDR3
DVB-T tuner	
Tuner Type	MAXLINER608
Frequency Range	177.5~227.5 MHz;474~858 MHz;
Input Impedance	75Ω
Active Ant Power	5VDC @ 50mA MAX, Overload Protection
Input Level Range	256QAM: 78.5dBm~-8.75dBm; 64QAM:-78.5dBm~-8.75dBm; 16QAM:-84.1dBm~-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) main and high profile level 4.1/MPEG-2 MP@HL
Aspect Ratio	4:3, 16:9
Video Resolution	1920×1080, 1280×720, 720×480
Audio Decode	
Audio Decode	MPEG-1 layerI/II□PCM downmix□IEC958 SPDIF□Dolby 5.1 channel□Dolby downmix 2 channel□Dolby Prologic2
Sampling Frequency	32 kHz, 44.1 kHz, 48 kHz
AV Output	
Video Bandwidth	SD:5.0 MHz (-3dB), HD:30 MHz (-3dB)
Video Impedance	75Ω
Video Voltage Level	1.0 Vp-p
Audio Freq. Range	20 ~ 20 kHz
Audio Impedance	600Ω
Audio Voltage Level	2V rms(5.6Vp-p)
Environment	
Input Voltage	AC 175~250V~50Hz/60Hz
Consumption	Max 12 W
Temperature	0~40°C
Humidity	<95%