

User manual

 **FERGUSON**



FK-1000

English

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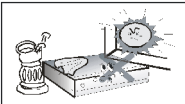
SAFETY INSTRUCTIONS

Please observe all warnings and instructions on the equipment and contained in these operating instructions. You must install the dish with correct direction and angle.



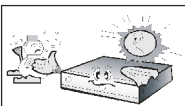
To avoid electric-shock hazards, do not open the cabinet, refer servicing to qualified personnel only. If cabinet is opened warranty will be invalid.

Please switch off completely the receiver during thunder, during abnormal phenomenon, before cleaning it and in case it remains out of service for a long period.

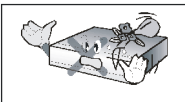


Do not expose the receiver under the sunlight. And keep it away from the heat source or humid environments. Do not block ventilation holes of the receiver so that air can circulate freely.

Please place the receiver in horizontal and stable conditions, keeping it away from vibrating.



If device is moved from warmer place to a colder one some problem might occur. Please switch off the receiver and turn it on after 1 or 2 hours.



Keep the receiver away from flower vases, tubs, sinks, etc., in order to avoid damaging the equipment. Do not touch power supply with wet hands.

Don't put any objects on the receiver.

Be sure to turn the receiver off and disconnect the AC power cord before cleaning the receiver surface. If the surface is dirty, wipe clean with a cloth which has been dipped in a weak soap/and/water solution and wrung out thoroughly, and then wipe again with a dry cloth.

- Do not connect cables while power is plugged.
- Do not use damaged cables for connections: you could cause fires.
- Please switch off completely the receiver while making all connections.
- The product purchased is a sophisticated electronic device which is not suitable for children under 18 years. We do not assume responsibility for damages caused to people or object, deriving from use of the device made by people under 18 years.

SOFTWARE FOR DOWNLOADING

Ferguson has used all the available means to deliver to its users software updates guaranteeing the best possible parameters of the satellite television receivers. Ferguson reserves the right to make corrections, changes or modifications of the software used in the receiver on any basis whatsoever and without prior notice. The current version of the software is available on the following website <http://www.ferguson-digital.eu>

ABOUT USER MANUAL

Ferguson has used all the available means to ensure the latest information regarding its products. Ferguson does not give a warranty regarding the contents of this User Manual and waives any implied warranties regarding market value or fitness for specific purposes. The information contained herein provide guidelines allowing the operation and maintenance of the receiver.

Ferguson reserves the right to make changes, corrections or to translate the User Manual without giving prior notice of such changes. Therefore, it is recommended that users visit our website regularly to receive the latest information.

SYMBOLS USED ON THE RECEIVER



The Digital Video Broadcasting logo.

This logo tells you that this receiver is compliant with the DVB standards.



The caution risk of electrical shock - do not open symbol

This symbol tells you that you are not allowed to open the receiver. Only authorized (service) technicians are allowed to open the box.



The CE mark

This mark tells you that the receiver is following the provisions of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to the electromagnetic compatibility and the provisions of Council Directive 73/23/EEC and 93/68/EEC on the approximation of the laws of the Member States relating to low voltage and electrical safety.



The double insulation symbol.

This symbol tells you that the receiver is electrically safe within the normal use of the receiver as stated in the safety chapter.



Environment protection first!

- Your appliance contains valuable materials which can be recovered or recycled.
- Leave it at a local civic waste collection point.

GENERAL INFORMATION

1. Main Features

- ✓ 4000 channels memory space
- ✓ Favorite channel groups, TV and radio
- ✓ Quick search function
- ✓ Electronic Program Guide (EPG)
- ✓ Parental control
- ✓ 8 timer and 2 games
- ✓ DiSEqC 1.0, 1.1, 1.2 and USALS supported
- ✓ Teletext with 800 pages buffer

2. Unpacking

Unpack the receiver and check to make sure that all of the following items are included in the packaging.

- ✓ 1 x Remote Control Unit
- ✓ 1 x User's Guide
- ✓ 1 x Digital Satellite Receiver

3. General Operation of STB

Throughout this manual you will notice that the everyday operation of your STB is based on a series of user friendly on screen display and menus. These menus will help you get the most from your STB, guiding you through installation, channel organizing, viewing and many other functions.

All functions can be carried out using the buttons on the RCU, and some of the functions can also be carried out using the buttons on the front panel.

Please be aware that new software may change the functionality of the receiver.

Should you experience any difficulties with the operation of your unit, please consult the relevant section of this manual, including the Problem Shooting, or alternatively call your dealer or a customer service adviser.

NOTE:










Please be aware that new software may change the functionality of the receiver. The photo and the function explanation involved in this specification is for reference only. If there is any mistake, please refer to the entity.

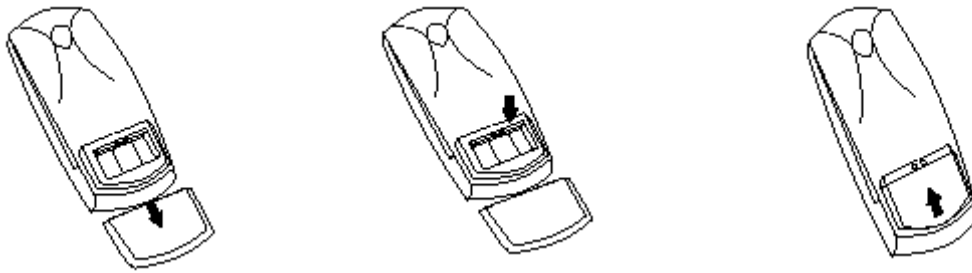
4. Remote Control Unit

Due to standardization fact most of Ferguson units is using the same remote control unit RCU-100. That is why NOT all keys are being used by this STB model!



	Turns power ON/OFF of the DSR
	When watching a channel, mute the sound
0~9	Enter number of the required menu item or select a channel number to watch
TV/RADIO	Switches between TV and Radio mode
	Switches back to previous channel
FAV	Display the favorite group list
SAT	Display the satellite list
FIND	Display the Find window
INFO	Show information of the current channel
MENU	Press this key one time to run menu onscreen
	Moves up / down a page in the list
OK, LIST	Executes the selected item in the menu screen or enters the desired value in any input mode
PR+, PR-	When watching a channel, change channels or move to the next higher or lower item in the menu
	When watching a channel, adjust the volume or move to the left or right item in the menu
EXIT	Return to the previous menu on the menu screen or escape from the menu
EPG	Call up the EPG (Electronic Program Guide)
	Display the Audio window.
TV/AV	Switch between TV and AV modes
TXT	Switch to teletext or subtitle mode
ZOOM	Enter into the zoom in mode
PAUSE	Press once to pause the screen picture, press once again to go to the normal mode
SLEEP	Enter into the sleep in mode
	Enter into the nine-pictures mode displayed on the screen.

4.1 Battery Installation



Remove the battery compartment lid on the rear of the remote control by sliding the lid down, then off. Put two AAA batteries inside the battery compartment with their + and - ends aligned as indicated. Do not mix old and new batteries or different types of batteries. Replace the battery compartment lid. Slide the lid until to close with a bang.

5. Front Panel



- ✓ **POWER:** Turns the receiver ON/OFF
- ✓ **↑↓:** Changes the channels on the screen and moves the cursor up/down in the Menu
- ✓ **←→:** Increases/Decreases the volume levels or changes the setting in the Menu
- ✓ **OK:** Shows the Channel List on the screen and use to make selections in the Menu
- ✓ **MENU:** Shows the Main Menu on the screen
- ✓ **EXIT :** Cancels the selected function

6. Rear Panel



- ✓ **LNB IN:** Connect to satellite antenna (IF input from LNB to digital tuner)
- ✓ **TV:** Connect to TV using SCART cable
- ✓ **VIDEO:** Provides a composite video output to TV or other equipments.
- ✓ **AUDIO (L/R):** Provides the stereo audio output to TV or other equipments
- ✓ **S/P DIF :** Connect to a hi-fi system
- ✓ **RF OUT:** UHF RF output to TV set's antenna in
- ✓ **RS232:** Connect to a PC for software upgrade

7. Setting a satellite dish

In order to connect external equipment including a satellite dish and converter, use the installation instructions or assistance from expert - installer!

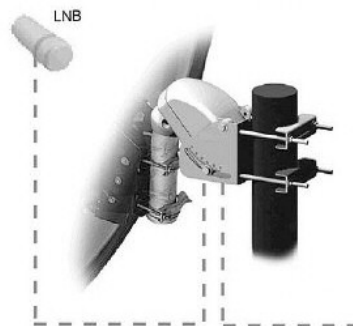


The precise setting antenna is the basis for good reception. Even the best antenna, which is ill-adjusted will cause problems with quality. Even small mistakes can prevent the receipt or very worsen its quality. Before the installation, make sure whether the place lends itself to that. The competent direction can be pre-determined by comparing with other antennas. Immediately before the antenna can not be any obstacles cover seeking to signal the dish! When you are choosing the best place for the antenna, to attach and it initially set, it still must be carefully adjusted. Each antenna is enabling regulatory adjustment screws in vertical position and level.

In digital receivers regulation is difficult. Settings can no be done base on picture, because it appears with delay. Also available indicators in the menu settings receiver typically operate with a delay, so the regulation can take a long time and be very inaccurate. For the antenna setting is necessary some meter antenna signal. Meter turns on a cable television converter between a receiver. We will confirm the presence of switch voltage converter with a tuner, and will show the size of the signal to satellites encountered. We invite you to benefit from expert assistance - installer!

8. Setting motorized satellite dish

Proper work of Ferguson receiver ensures motorized system by USALS company Stab. To connect the installation of the dish with motorized system USALS, connect the output of USALS to LNB IN on rear panel of Ferguson receiver. The motor is what actually moves the antenna between the various satellite positions and is installed in between the antenna mast and the antenna mount. It is designed such that the axis of rotation is aligned with the North Star. This type of mount is often referred to as a Polar Mount. As a result, azimuth and elevation do not have to be adjusted individually. Instead, the antenna rotates on only one axis. The antenna motor is installed on the already existing vertical mast. The local latitude position of the location is then setup on the motor's scale thus aligning the axis of rotation in the correct position. Similar to a fixed antenna installation, the elevation scale on the antenna mount must be set for a satellite as close to south as possible. In the southern hemisphere you would be looking for a northern-most satellite. The selected satellite should lie within 5° of your southern-most position; the southern-most position being equal to your local longitude. For example, if your local longitude is 73° west, then the satellite you select should be located within +/- 5° of 73° west, or within the range 68° to 78° west.



USALS greatly simplifies the antenna setup. Ferguson receiver simply asks you for your local geographical coordinates and calculates the satellite positions on its own using a complex mathematical formula. The receiver then drives the motor directly to the selected satellite position. Once you have a signal, you need only finely adjust the antenna mount and horizontal position (on the mast itself) for maximum signal. If the initial southern setting was slightly off, it

would now be corrected. Once the first satellite is perfectly set, all the other satellites in the arc would also be automatically set as soon as the orbital position of these additional satellites is entered into the receiver.

Without USALS, the alignment of the antenna system is somewhat more difficult. DiSEqC 1.2 drives the antenna to the selected satellite position in almost the same way. But since the local geographical data is missing, the motor drives to a satellite position based on the prime meridian and the equator. Therefore, when aligning the motor for the first time – and then again later on with all the other satellite positions – alignment with the actual satellite position has to be achieved with the motor commands “move east/west”. Because of these difficulties, manufacturers of these motors make available helpful software on their web sites that enable you to easily calculate the true position of a satellite.

9. Connection Diagram

The following figure shows cable connections required for TV and other related electrical equipment. If you need any assistance for specific equipment connection, please contact your local dealer.

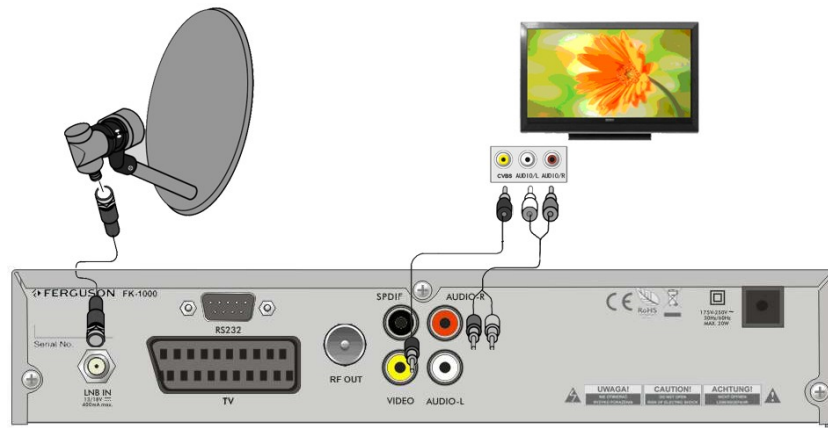
9.1 Connect SCART port (recommended)

- Connect the antenna with LNB IN of the STB.
- Connect to TV as following figure.



9.2 Connect composite port

- Connect LNB IN port on receiver to a satellite dish.
- Connect the video and audio by means of three cinch cables to the television set. One cable, coloured yellow used to send video. The two remaining cable, red and white, are used to connect sound (right and left channel).



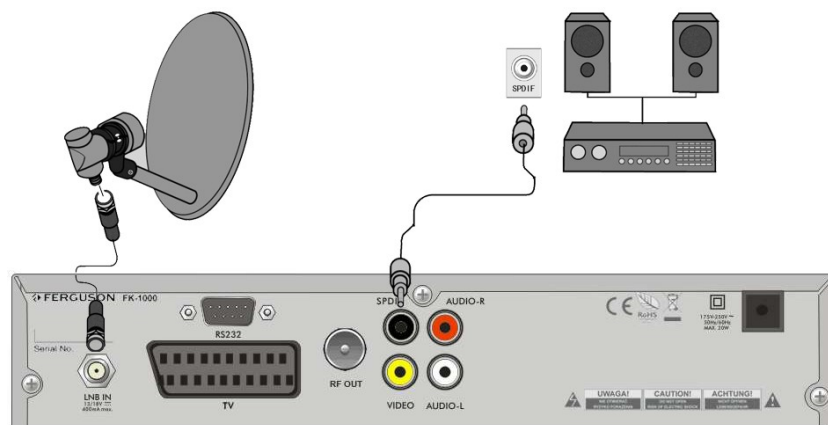
9.3 Connect RF Port

1. Plug the receiver with cable TV.
2. Search for-TV channel, which gives the receiver.



9.4 Connect Audio System

1. Connect the antenna with LNB IN of the STB.
2. Connect the SPDIF or OPTICAL with Digital Theater Systems to enjoy higher quality sound.
3. You can also connect AUDIO L/R with AUDIO IN L/R of audio system by using the RCA cable.



FIRST STEPS

1. Insert the plugs of the receiver's and the auxiliary equipments in the power socket and switch them on.
2. Select the AV channel on the TV set.
3. The receiver is delivered with pre-programmed TV channels and can be used immediately. To see if there are any new channels, then activate the channel search.



Caution: Check the connections of all equipment and the antenna are in working order before connecting the receiver to the power source.

MENU INFORMATION

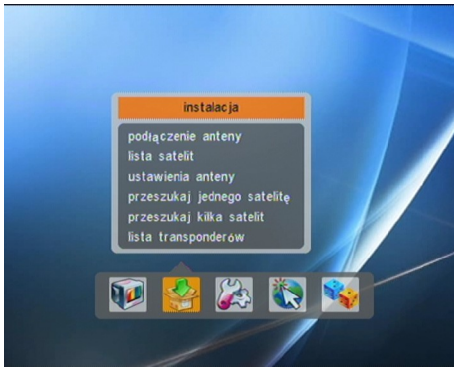
The user interface has various ways to navigate through the menus and functions. Some of the keys on the remote control unit give direct access to functions. The most important keys are identified as EPG, colored keys, MENU and OK. Other keys are multi-functional which means that their function changes dependent of the mode that you are in.

Unless otherwise specified; this note explains the way you can navigate through the pages of the user menu.

1. Use the up and down keys to move the cursor up or down from one line to another line.
2. Use the left and right keys to move the cursor left or right the sub-menu.
3. Use the OK key to enter the sub-menu.
4. Use the EXIT key to leave the menu and return to the view mode.
5. In a sub-menu: use the OK key to confirm the selection; the Green bar indicates the active selection

10. Main menu

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



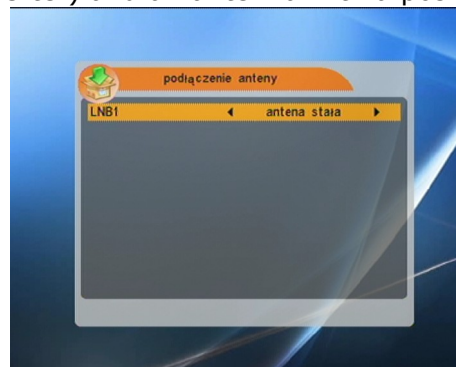
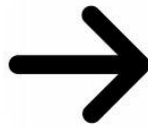
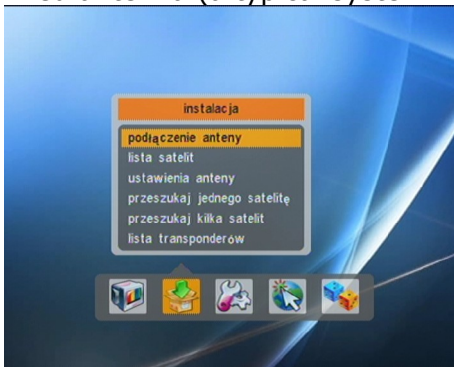
1. editing channel lists
2. installation
3. system settings
4. tools
5. games

11. Installation

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

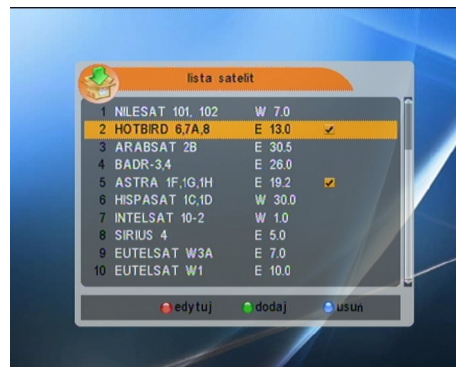
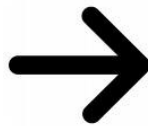
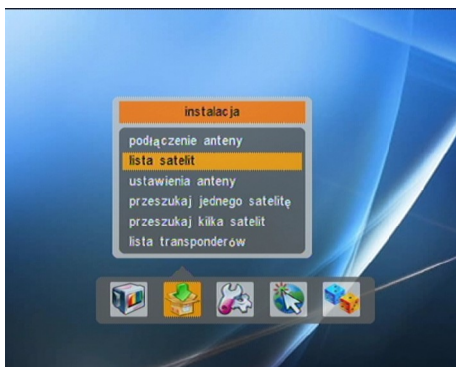
11.1 Antenna connection

Select one of the two available options, depending on your system. Two options are available: a fixed antenna (a typical system with a single converter) and an antenna with a positioner.



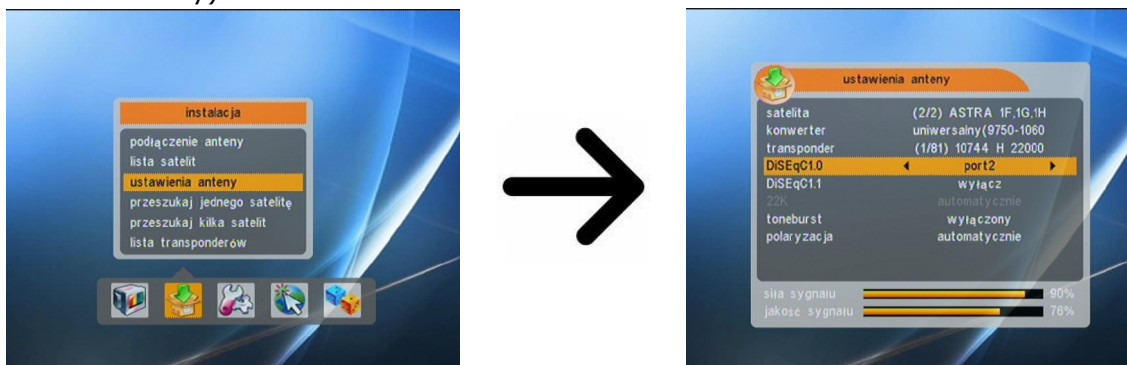
11.2 Satellite list

In this menu select the satellites that you want to use. Select a satellite by pressing the up/down arrow keys. Mark by pressing OK. Each selected satellite will be accompanied by the ✓ symbol. The remaining menu options will be available only for selected satellites. In this menu you can also edit, add or delete satellites it is necessary.



11.3 Antenna setup

This menu is used to set detailed operating parameters for previously selected satellites, depending on your antenna system. Select a satellite by pressing the left/right arrow keys. Only satellites marked on the list of satellites will be available. Now select the converter type (usually, you do not have to change this option and may leave it set to "universal"). Next, if you have a switch for more than one satellite, set the required port. Depending on the type of switch, these will be options for DiSEqC 1.0 or DiSEqC 1.1 (do not activate these two options simultaneously).



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. In order to check the strength and quality settings, use the "transponder" option in order to alter the frequency and verify whether each V and H polarization is operative.

Confirm the settings by pressing EXIT.

If as the antenna connection you have selected: antenna with positioner, the antenna settings menu will have a different appearance. Two operating standards will be available for the positioner: USALS or DiSEqC 1.2. We recommend using USALS positioners, for which only the correct longitude and latitude must be given.

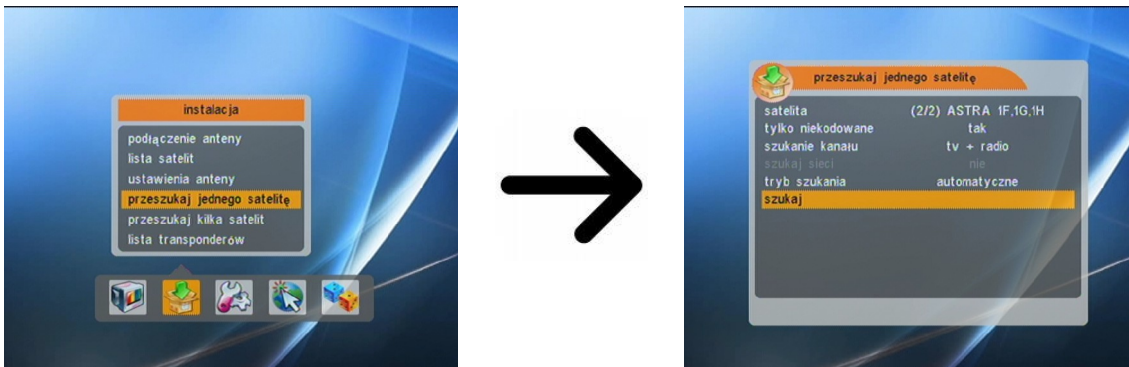


11.4 Single satellite search

In this menu you can search for channels from one selected satellite. To this end, select a satellite by pressing the left/right arrow keys. Only satellites marked on the list of satellites will be available. Next, select whether you want to search only for unencoded channels or for all channels, or for radio channels, television channels, or all channels.

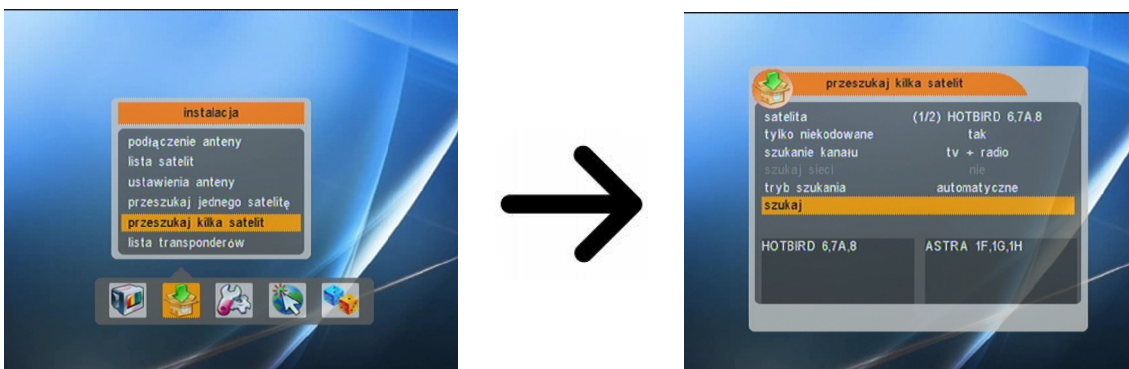
Two search modes are available:

1. Auto scan – a so-called blind scan, which consists in an automatic search for available satellite frequencies, which are then scanned in turn.
2. Preset scan – according to the TP list – the receiver searches through only frequency by frequency, in accordance with a list recorded for the selected satellite. This list may be edited in a separate menu.



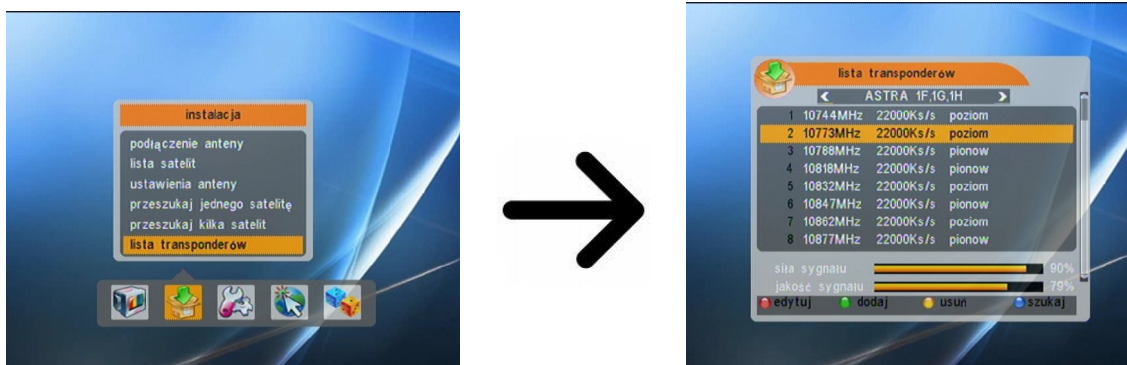
11.5 Multi satellite search

In this menu you can search for channels from a few satellites. The satellites will be searched automatically one after another in the order in which they were entered in the list of satellites. Options concerning settings and search functions are the same as in the menu: search one satellite. The names of satellites that are to be searched are visible in the lower part of the window.



11.6 List of transponders

Channels on satellites are located in "sets". Such a "set" of channels comprises a transponder. A list of transponders is a list of frequencies available on a given satellite. In this menu you can edit, add and remove individual frequencies. Select a satellite by pressing the left/right arrow keys, and the desired frequency using the up/down arrow keys.



How do I search for a new channel?

In order to search for a new channel, you must know the basic channel parameter, i.e. the frequency on which it is broadcast. This parameter may be obtained from the broadcaster, on the internet, in the press, etc.

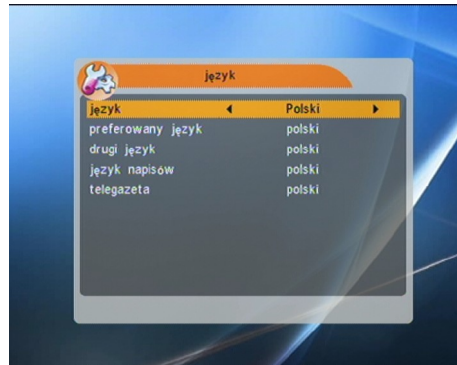
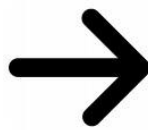
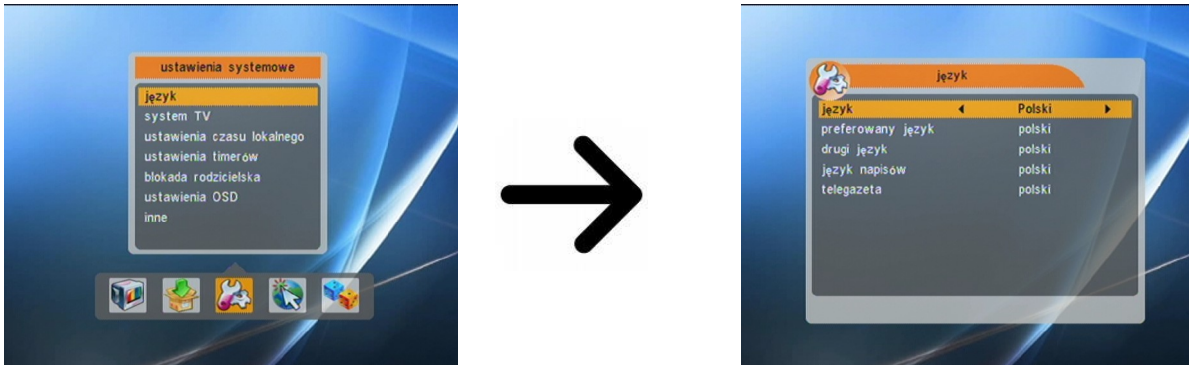
Next proceed to the list of transponders, select a satellite and choose the desired frequency (if it is not on the list, use the function: add – green button on the remote control unit). Now click OK for the selected frequency or the blue button on the remote control, in order to call out the window for searching this frequency. Use the up/down buttons to change search options and confirm by means of the OK button. A search will be started. Newly found channels from this frequency will be added at the end of the list of channels.



12. System settings

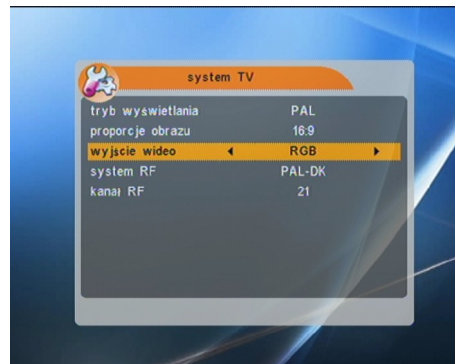
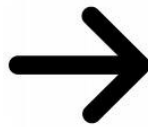
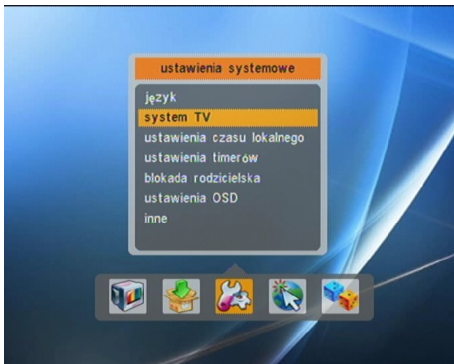
12.1 Language

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.



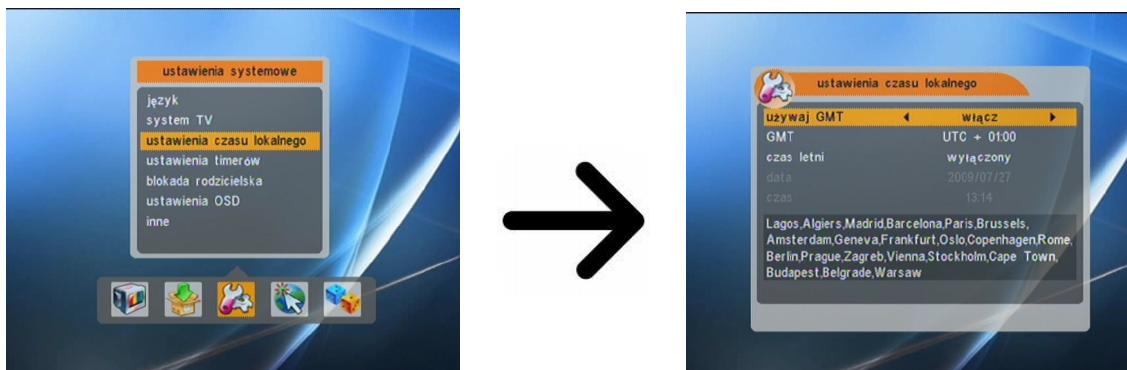
12.2 TV System

This menu is used to set the image parameters. For most of all old type TV sets we recommend to use CVBS video output. If you are sure that TV set support RGB you can use it to get better image quality. Additionally there are two options to set RF Out. You can choose system and channel on witch RF Out will be working.



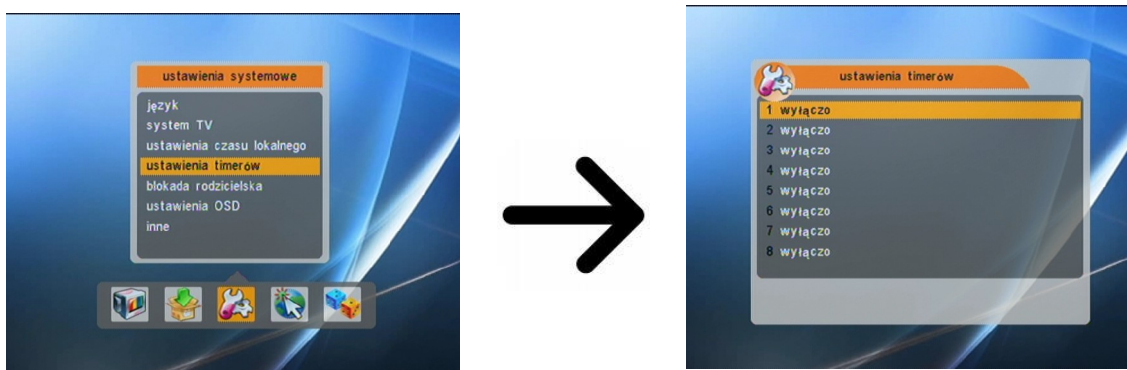
12.3 Local time settings

This menu is used to set the time and date. The receiver can automatically download the time and date from the satellite (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.



12.4 Timer settings

This menu serves to programme up to 8 different events. Events enable the automatic switching on and off of the receiver to a previously planned programme.

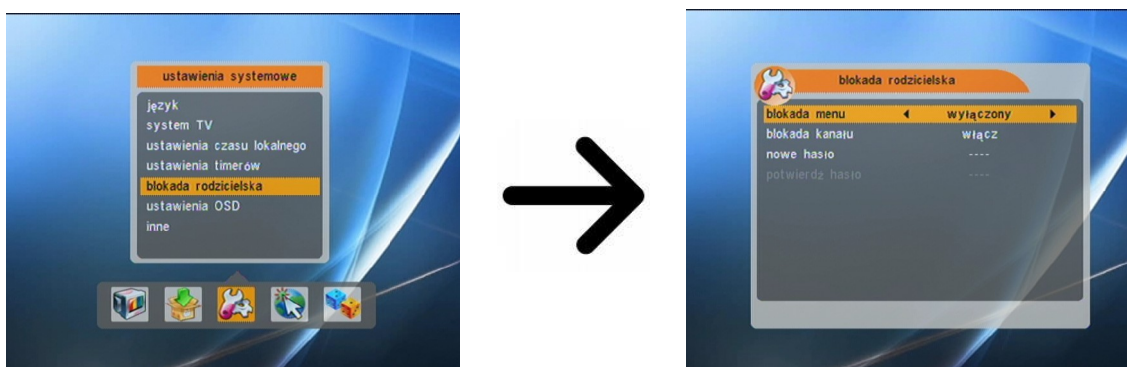


Select the event that you want to programme and press OK. Set the timer activation frequency. Select the channel (press OK to display the simplified channel list). Next set the date, start time and duration. Select 'record' to return to the events list. A new item has been added.



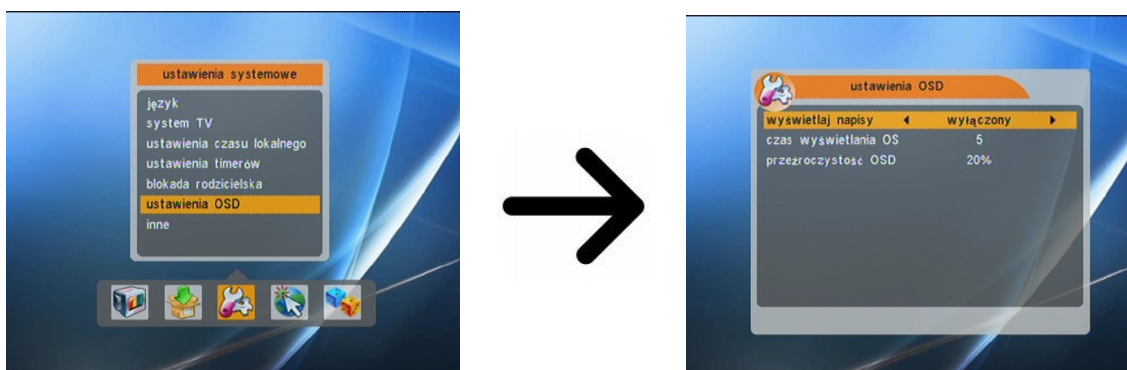
12.5 Parental lock

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**.



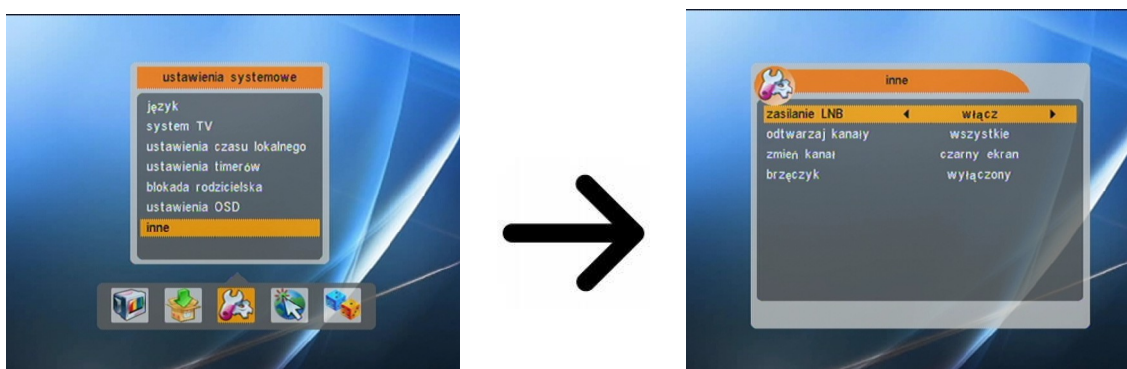
12.6 OSD settings

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.



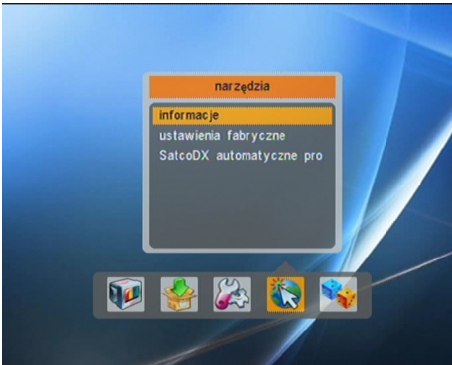
12.7 Other

In this menu you can change the remaining options, such as the power supply of the converter, select the types of channels played, and how the receiver is to behave when switching channels or if you want to hear signal strength sound or not.



13. Tools

In this menu you can obtain detailed information about your software version, set factory default settings and update transponder list from SatcoDX service. Last option requires communication with personal computer over RS232 Null Modem cable and technical knowledge.

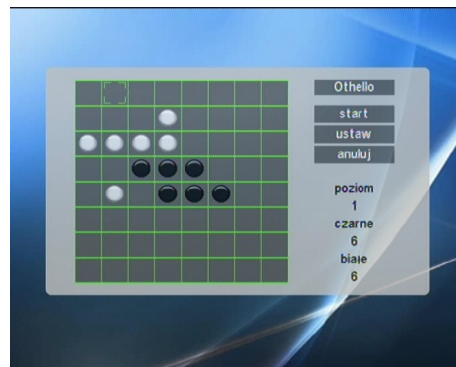
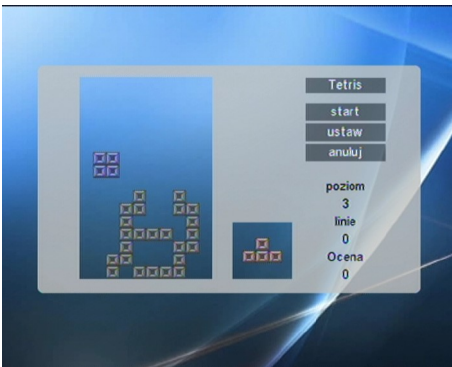


Note: Restoration of default settings results in the removal of all user settings and the recall of a default channel list; in some cases, no channel list will be available. All changes introduced by the user, including the channel list and configuration of satellite antenna settings, will be removed!!!



14. Games

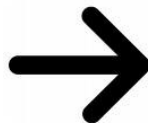
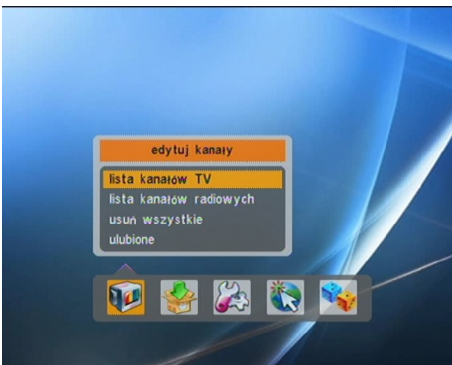
The receiver has two factory-installed games: Tetris (classic arranging of successive levels using blocks of various shapes) and Othello (a logical game, which consists in the placement of your colour on a board and changing your opponent's colour; the person whose colour dominates, wins).



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. EXIT, 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. A symbol comprising two arrows will appear next to the channel name.



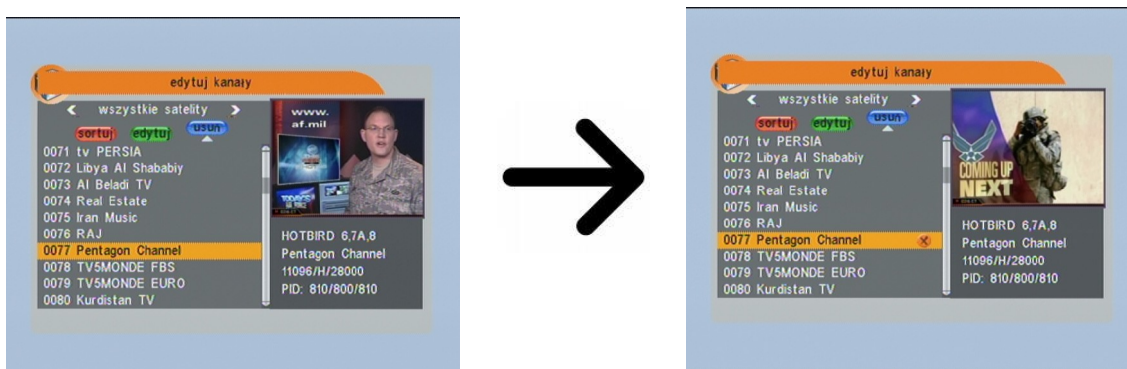
Use the up/down arrows to move the channel to a selected position and confirm by pressing OK. Next press the yellow button again in order to switch off the channel movement function.



Once you are finished, press EXIT. 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?

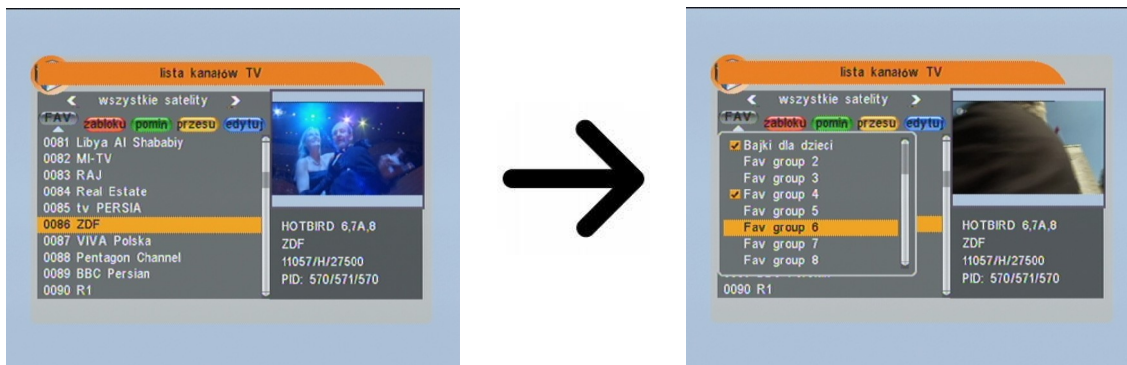
Proceed to the editing of channel lists. Select a channel and press OK in order to see a preview in a small window. Press the blue button in order to pass to the channel edition menu. Press the blue button in order to switch on the channel delete function and OK on the channel that you want to remove.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

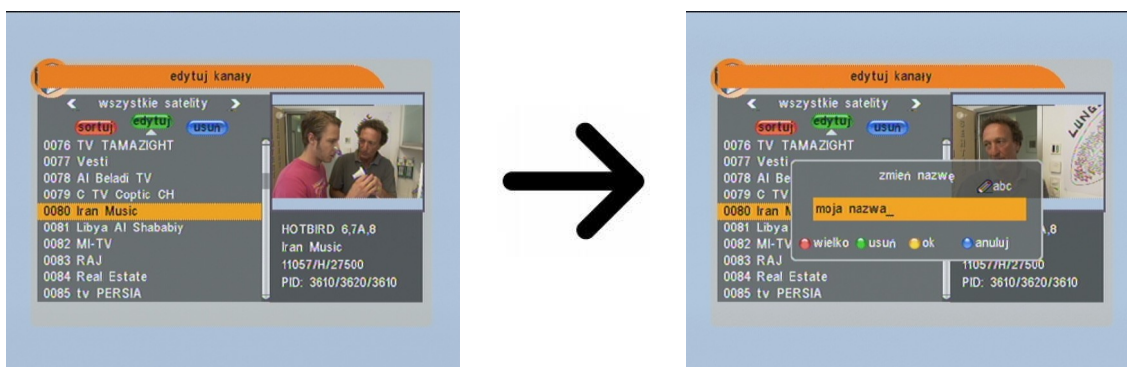


Once you are finished, press FAV in order to switch off the add-to-favourite-groups function.

Having completed the addition of channels to successive favourite groups, press EXIT. 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?

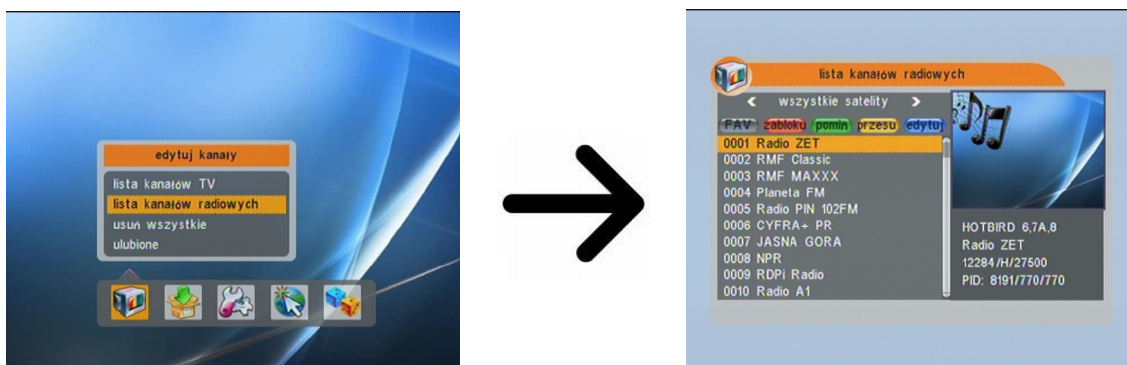
Proceed to the editing of channel lists. Select a channel and press OK in order to see a preview in a small window. Press the blue button in order to pass to the channel edition menu. Press the green button in order to switch on the channel name change function. Use the numerical keyboard in order to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



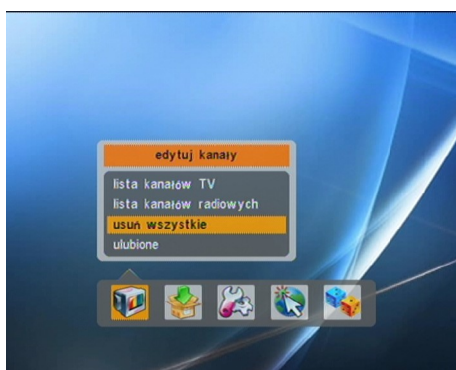
Confirm the new name by pressing the yellow button. Next press the green button again to switch off the channel name change function. In this way you can change the name of one or more channels. Once you are finished, press EXIT. A message will appear asking you to confirm the changes made. If you fail 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. EXIT, in order to save.



15.3 Delete all

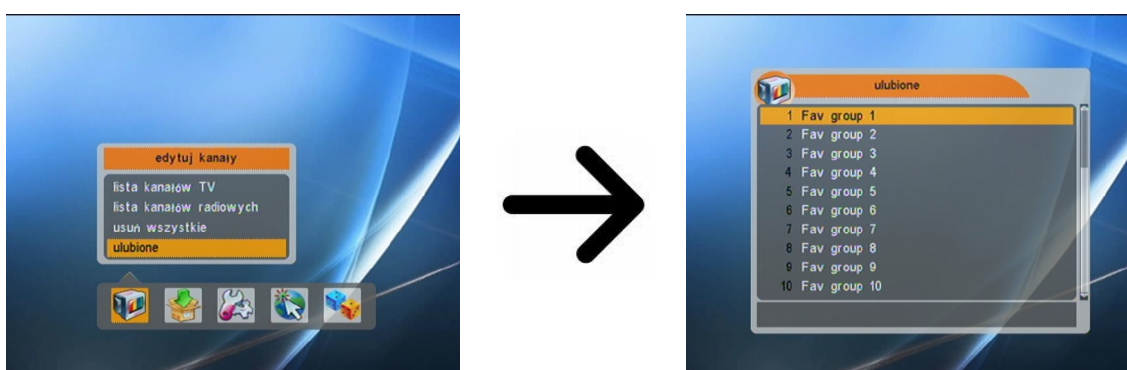


This option allows you to remove all channels from the channel list. Note: This operation cannot be reversed! Make sure that you are certain that you want to remove all of the channels?

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.



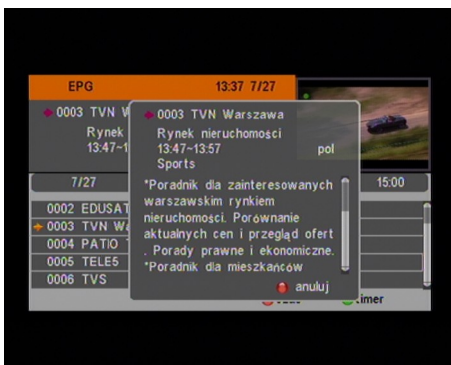
16. Basic functions supported by the remote control

16.1 EPG



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 OK 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 ZOOM



This feature allows you to enlarge a selected area of the picture. Another pressing zoom increases / decreases the size. You can also use buttons left / right and up / down to change position of zoom.

16.3 FIND



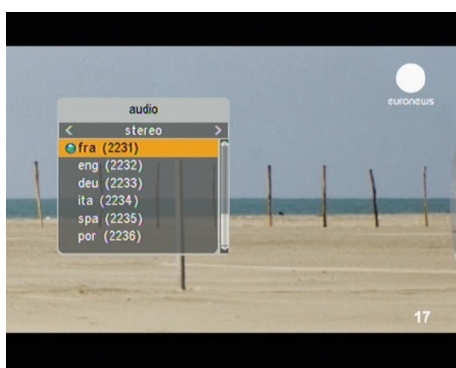
The FIND button calls up the quick channel search function. Enter successive letters by means of the numerical buttons. The results list is updated after each successive letter is added. Press the yellow button in order to proceed to the list containing results of the search procedure and select the desired channel.

16.4 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!

16.5 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.

16.6 SLEEP



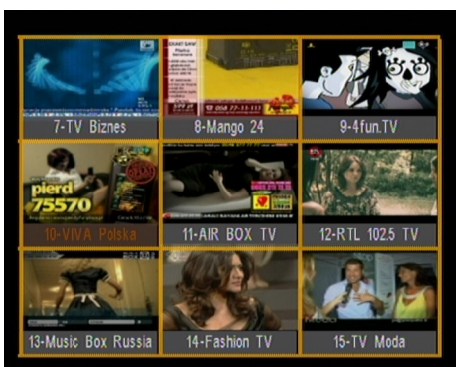
SLEEP button launches sleep timer. Another button press allows you to select the time after which the receiver automatically turns off.

16.7 PAUSE



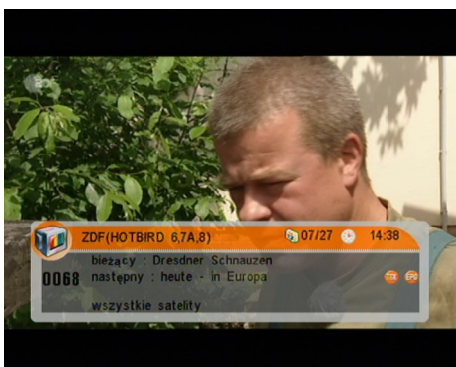
PAUSE is used for temporary suspension of the image.

16.8 MULTIPICTURE



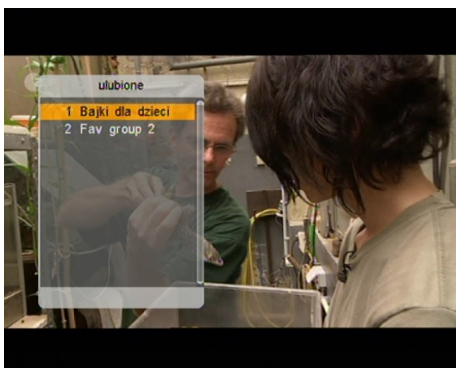
This feature allows you to display nine channels in one window. Only one of them (highlighted) is currently active. To move between channels, use the up / down and left / right buttons.

16.9 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)

16.10 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).

TROUBLE SHOOTING

Problem	Possible Causes	What To Do
The display on the front panel does not light up.	Main cable is not connected.	Check that the main cable is plugged into power socket.
No sound or picture, but the front panel red light is ON.	The unit is in standby mode.	Press the standby button.
No sound or picture.	The satellite dish is not pointing at the satellite.	Adjust the dish. Check the Signal Level in the Antenna Setup menu.
	No signal or weak signal.	Check the cable connections, LNB and other equipment connected between the LNB and the receiver, and/or adjust the dish.
Bad picture/ Blocking error.	The satellite dish is not pointing at the satellite	Adjust the dish.
	Signal is too strong.	Connect a signal attenuator to the LNB input.
	Satellite dish is too small.	Change to a larger dish.
	LNB noise factor too high.	Change to an LNB with lower noise factor.
	The LNB is faulty.	Change the LNB.
No picture appears on the TV screen.	The system is connected by SCART leads and TV is not in AV/EXT mode.	Check the UHF channel fixed in your system and tune the UHF channel properly.
There is interference on your digital satellite channel.	The system is connected using RF leads and the output channel of the receiver interferes with an existing terrestrial channel or Video signal.	Change the receiver output channel to a more suitable channel, or connect the system using SCART leads.
The RCU is not working.	Battery exhausted.	Change the battery.
	RCU is incorrectly aimed.	Aim the RCU at the unit, or check that nothing blocks the front panel.
On front display there is just TV (ΓU)	Button TV/AV was pressed.	On the remote control is a button TV / AV used to modify the source, a second press will change the source of the displayed image.

In worry about customer's satisfaction, in case of any problems, we ask you always before dispatch device to check on our internet side: www.ferguson-digital.eu if the newer version of software is. Due to conditions of guarantee the actualization of software does not rank to service repairs.

GLOSSARY

CA - Conditional Access - Encryption system used to secure content and grant access only to subscribers.

CAM - conditional access module - is an electronic device, usually incorporating a slot for a smart card, which equips a set-top box with the appropriate hardware facility to view conditional access content that has been encrypted using a conditional access system.

CI - Common Interface - is the slot on a digital television receiver into which a conditional access module (CAM) may be inserted for satellite television. A receiver with a common interface allows the user to access encrypted television broadcasts as opposed to free-to-air (FTA) channels.

DVB-S is the original Digital Video Broadcasting forward error coding and modulation standard for satellite television. DVB-S is used in both MCPC and SCPC modes for broadcast network feeds, as well as for direct broadcast satellite services. The transport stream delivered by DVB-S is mandated as MPEG-2.

EPG - Electronic Programme Guide, also known as an Interactive Programme Guide or IPG, provides an on screen guide to channel listings, programme information or pay per view events.

FTA - Free-to-air - broadcasts that are sent unencrypted and may be received via any suitable receiver.

LNB - low-noise block converter - is used in communications satellite (usually broadcast satellite) reception. The LNB is usually fixed on the satellite dish.

MCPC - multiple channels per carrier - several subcarriers are combined into a single bitstream before being modulated onto a carrier transmitted from a single location to one or more remote sites.

Monoblock LNB - is a unit consisting of two LNBs and is designed to receive satellites spaced close together.

Pay-TV - Pay television or **Premium Television** refers to subscription-based television services, provided digital cable or satellite, but also by digital terrestrial methods.

SCPC - Single channel per carrier - refers to using a single signal at a given frequency and bandwidth.

STB - Set-top box - Receiver device that processes an incoming signal from a satellite dish, aerial, cable, network or telephone line.

TP - Transponder - One of the transmitters on a satellite. A transponder transmits on a particular frequency to which a set-top box must tune to receive a signal. Typically each transponder can carry multiple compressed digital television channels.

DiSEqC - (Digital Satellite Equipment Control) is a communication protocol for use between a satellite receiver and a device such as a multi-dish switch or a small dish antenna rotor. It is compatible with the actuators used to rotate large C band dishes if used with a DiSEqC positioner.

USALS - (Universal Satellites Automatic Location System) - is a satellite motor protocol that automatically creates a list of available satellite positions in a motorized satellite dish setup. It is used in conjunction with the DiSEqC 1.2 protocol.

Specification

General	
STB Type	DVBS Receiver
Main Chipset	ALI M3329C(128 pin)
Mechanical	7E CASE
Func/Interface	FTA,RCA,21~69 RF out
Video Modulator	Independent
TUNER Type	Onboard Design
Demodulator Type	Embed to Main Chip Set
SMPS Type	Separate SMPS
Hardware Features	
IR	38KHz
Remoter Type	RA0
Dimension	W : 26.0 cm , D : 18.0 cm , H : 4.5 cm
Net Weight	1.5 kg
Main Chip Sets	
CPU frequency	216MHz
Flash Memory	1PC 16Mbit/2MByte
SDRAM Memory	1PC 4X16Mbit/8Mbyte SDR
Demodulator IC	Building in Main Chip Set
DVBS Tuner	
Tuner Type	ZARLINK 10039 ON BOARD
Frequency Range	950 ~ 2150MHz
Input Impedance	75Ω
Power and Polarization	Vertical 13VDC;Horizontal 18VDC @ 300mA (max) 22KHz±4KHz(0.6V±0.2V)tone, Overload Protection
Input Level Range	65dBm ~ -25dBm
DVBS Channel Decoder	
DVBS Demod standard	DVB-S (ETS 300 421)
DVBS Demodulation	QPSK
DVBS Symbol Rate	2 ~ 45MSPS (Code Rate 1/2)
DVBS Code Rate	1/2、 2/3、 3/4、 5/6、 7/8
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
Aspect Ratio	4:3、 16:9
Video Resolution	720×576(PAL) 720×480(NTSC)
Audio Decode	
Audio Decode	MPEG1,MPEG2 ISO/IEC 13818-3 LAYER I&II
Sampling Frequency	32KHz、 44.1KHz、 48KHz
AV Output	
Video Bandwidth	5.5MHz(-3dB)
Video Impedance	75Ω
Video Voltage Level	1.0 Vp-p
Audio Freq. Range	20 ~ 15KHz
Audio Impedance	600Ω
Audio Voltage Level	2V rms(5.6Vp-p)
Environment	
Input Voltage	AC 100 ~ 240V , 50Hz/60Hz
Consumption	Max 20W
Temperature	0 ~ 40°C
Humidity	<95%