

WARNING !!!



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

REMEMBER:

1. In order to use an external USB memory, the memory must support the USB 2.0 standard. To ensure stable recording and playback, **you must use a memory with a recording speed of 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.

CAUSION

1. Under no circumstances should you disconnect the USB device from the receiver during recording or playback. Disconnecting during operation may cause damage to the receiver and/or flash memory, and to the recorded data.

2. Do not touch the working device (and in particular the USB connector) with wet hands. Risk of electric shock and permanent damage to the receiver!

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SAFETY MEASURES

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



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



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



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



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



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



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



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

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

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

DOWNLOADABLE SOFTWARE

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

ABOUT THE INSTRUCTION MANUAL

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

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

MARKINGS AND SIGNS APPLIED TO THE RECEIVER



Digital signal transmission logo.

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



Risk of electric shock - do not open.

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



CE logo.

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



Double insulation logo.

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



Take an active part in protecting the natural environment!

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

BASIC INFORMATION ABOUT THE RECEIVER

1. Main features

- ✔ Receives cable TV channels in High Definition
- ✓ PAL upscaling up to 720p & 1080i resolution
- ✓ Dolby Digital surround audio pass through (HDMI, optic)
- ✓ Card reader, CONAX CAS5/7 embedded
- ✓ Software upgrade via USB port
- ✓ Supports timers
- ✓ Favorite channel groups, TV and radio
- ✓ Electronic Program Guide (EPG)
- ✓ Supports Teletext and Subtitles
- ✓ User friendly, Multilanguage menu
- ✓ Simple Installation wizard
- ✓ NIT- Search
- ✓ Logical Channel Numbers Support
- ✓ OTA (DVB- System Software Updates)
- ✓ Modern design and small dimensions
- ✓ MPEG-2, MPEG-4, MPEG-4 AVC/H.264 support
- ✓ Software upgrade via Internet

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 cable television 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

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EPG

INFO

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♦ FERGUSON RCU-500

Due to the standardization of Ferguson equipment, the majority of these devices use the same remote control unit, i.e. RCU-500. This means that not all keys are used by this equipment model!!

POWER	Turns the receiver on and sets it in standby mode.
MUTE	Switches the sound on and off.
ВАСК	Returns to the previously displayed channel.
EPG	Displays the electronic programme guide.
MENU	Displays the main menu on-screen.
ОРТ	Used to switch between the resolution selected in the menu and the default resolution of 576i. Allows the user to restore proper functioning of the receiver following the selection of a resolution not supported by the television.
USB/PVR	Displays the USB menu, if a USB memory device has been connected.
FAV	Displays a selection of favorite channel lists.
VOL+ VOL-	Used to change the volume level (lower, higher).
СН+ СН-	Switches to the next or previous channel.
INFO	Displays information about the current programme.
EXIT	Returns to the previous submenu, or exits the menu.
ТЕХТ	Switches on the teletext on-screen, if this is available.
AUDIO	Switching between soundtrack versions, if these are available.
SUBTITLE	Switches the on-screen captions on and off, if these are available.
FIND	A quick search for channels according to successive name letters.
EDIT	Not used.
TV/STB	Used for controlling the SCART bush. Cyclic selection of signal sources.
FORMAT	Changes the image resolution. The following resolutions are available: 480i, 480p, 576i, 576p, 720p (50Hz), 720p (60Hz), 1080i (50Hz), 1080i (60Hz).
REV, PLAY, PAUSE, FF, STOP, REC	Buttons used to operate the recording, playback and time shift mode functions.
SAT	No function attached to this button
	Switching between the list of television and radio programmes.

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



POWER:	Turns the receiver on and sets it in standby mode. Switches to the next/previous channel, moves the cursor up/down in the Menu. Used to select the desired volume level (lower, higher) and move the cursor left/right in the Menu.
OK:	Selects options in the Menu or displays the channel list.
MENU:	Displays the main Menu on-screen.
EXIT:	Switching off; exits the selected option.
USB:	Port for connecting an external USB memory device.
CA:	Socket for a subscriber's card – always insert with the chip facing down!

6. Rear panel



LOOP OUT:	Output of the signal from the converter to another satellite receiver.
CABLE IN:	Input of the concentric cable
HDMI:	Digital image and sound output.
LAN:	The Ethernet port used for communication over the LAN network/Internet.
AUDIO (L/R):	Analogue stereo audio output, 2 x RCA.
COAXIAL:	Digital coaxial audio output.
COMPONENT (YpbPr):	Component video output 3 x RCA (YpbPr).
OPTICAL:	Digital optical audio output.
TV:	SCART output, for connection to a television.
RS232:	RS232 port for communication with a PC computer.
ON/OFF:	Power on/off switch.

7. Connecting the cable receiver

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

7.1 Connection by means of an HDMI cable (recommended)

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

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



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



7.2 Connection by means of the YPrPb (component) sockets

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



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

7.3 Connection by means of SCART cables

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

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



7.4 Connection of an audio system

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

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



7.5 Connection of an external memory

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

3.Connect the memory through the USB port located on the front panel under a tab.



7.6 Connection of another receiver

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



7.7 Connection to the LAN local network

In order to connect the receiver to a local network, use an RJ45 cable. We recommend that you restart the receiver whenever the network settings are changed.



7.8 Connection to the computer by means of an RS232 Null Modem cable

For connection to a computer, use a Null Modem cable.



FIRST STEPS

1. Insert the plug of the receiver and other additional devices to a wall socket.

2. Select AV signal source of your television set.

3. The satellite receiver is supplied with reinstalled television channels. In order to watch other, i.e. non-default channels, you should use channel search function.

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

INFORMATION ABOUT THE USER MENU

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

1. The up/down arrow keys on the remote control are used to move the cursor up and down on the menu.

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

3. The OK button is used to enter submenus.

4. The EXIT button is used to exit menus or functions.

5. When using a submenu, the OK button is used to confirm your selection; a green background informs that a function is active.

8. Installation wizard

To set the main STB settings just follow the installation wizard.



When You have set any settings in installation wizard window, You can choose the auto search option or go to the main menu to set any other detail STB settings.







9. Main menu

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



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

10. Installation

The installation menu is used to search for channels.

10.1 Auto Search

- 1. Area: Press keys to select the area.
- 2. FTA Only: Select between Yes and No.
- 3. Press OK on search button to star searching program.

Blind Scan				
Area	(Poland	•	
FTA Only		No		
Search				

10.2 Manual Search

- 1. Press **PR+**, **PR-** keys to select the satellite up or down.
- 2. If there is no satellite, the red colour and blue colour keys will be invalid.
- 3. Press **red** colour key to pop up the **Edit TP** window.

1		Poli	ind	
92	842MHz	6875Ks/s	QAM64	
93	850MHz	6875Ks/s	QAM64	
94	858MHz	6875Ks/s	QAM64	
95	307MHz	6875Ks/s	QAM64	
96	123MHz	6875Ks/s	QAM64	
97	435MHz	6875Ks/s	QAM64	
gnal	Intensity		_	32%

Frequency, Symbol rate: Press keys to addor reduce by step one. Or press numeric keys (0-9)to input the desired value.

QAM: Press keys to select among QAM4, DAM16, QAM32, QAM64, QAM128 and QAM256.



4. Press **green** colour key to pop up the **Add Satellite** window. Since the same operation as the above **Edit Satellite** window, here we don't explain any more.



5. Press yellow colour key to pop up the dialogue "Are you sure to delete?". Select Yes button and press **OK** key to delete the selected satellite. You can cancel this operation by pressing **OK** key at the NO button.



6. Press blue colour key to pop up the TP Search window. **FTA only, Scan Channel, Network Search:** Press keys to select the proper option. Press **OK** key at the OK button to start searching.



10.3 Nit Search

You have to define such options as:

- 1. Frequency.
- 2. Symbol Rate.
- 3. QAM.
- 4. FTA Only: Select between Yes and No.
- 5. Search: Press OK key to star search.

Frequency	1	114 MHz
Symbol Rate		6875 KS/s
QAM		QAM64
FTA Only		No
Search		
Signal Intensity	_	32%
Signal Quality	-	12%

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.

Language			anguage	English)
TV System			Language	English
Display Setting			Second Audio	English
Local Time Setting			Subtitle Language	English
Parental Lock			Teletext	English
OSD Setting				
Startup Channel				
Other				
Change I Move	Select			

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). If you select an unsupported resolution, your image will be lost or become illegible – you can always use the **OPT** key to return to the basic resolution, i.e. 576i. Please keep in mind that you can also change the resolution at any time by means of the **FORMAT** button.

If you are using a component cable connection, then for the majority of television sets we recommend a resolution of 720p (50Hz) or 720p (60Hz), depending on your television set, and the YUV video out. *Note:* if you change the video out to RGB, no video signal will be output over the component connection!

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 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.



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 converter, select the types of channels played, and how the receiver is to behave when switching channels.

System Setup	Other Channel Play Type	All I
Language	Channel Change	Freeze
TV System	LCN	On
Display Setting	Clock In Standby	Off
Local Time Setting Parental Lock	Radio Equalizer	On
OSD Setting	Auto Standby	On
Startup Channel		ALL DEPARTMENTS
Other		

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 satellite antenna settings, will be removed!!!



12.3 Updating by RS232



This menu allows you to send software, settings or channel lists from one receiver to another receiver of the same type. Connect the receivers using an RS232 Null Modem cable. Select **allcode** in order to send all of the software, or **userdb** to send only current settings and the channel list.

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Move

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12.4 Conditional access

In this menu you can obtain additional information about the subscriber's card in the card reader. The information presented depends on the type and version of your card.



12.5 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.



12.6 Local network settings

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



12.7 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. Games

The receiver has three factory-installed 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).



			9	7	3	5		Sudoku
3	1	5		5		4		
2		9	8		6			New Game
6	2		4	1	7		5	Replay
								Solve
7		3	5	2		9	8	Setup
		5		9	4		3	Cancel
	3		1			7	6	Class
	7	4	2	6				

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.



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 final option concerns the playback of recordings. It defines the time of rapid movement by means of they \bigstar / \checkmark forward/back keys, respectively, during playback.

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 **USB/PVR** button.

Music



In this tab you can support a number of popular formats of music files, such as MP3 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 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.

Video



In this tab, you can play back files in MPG format. High resolution MPG files can also be played back.

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 \bigstar / \checkmark 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. 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 heart symbol, \checkmark , 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 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.

Favorite		ila		Ren	ame	9			_	
1 Music			5				4		A	
2 Fav group 2		┫	5		u t	8				
3 Fav group 3	9	+	n	1	1	K				
4 Fav group 4			n +	0	P	P W		1		
5 Fav group 5		, ,	۱ ۲	u Q	1	2	3	1		
6 Fav group 6	4	1	5	6	7	8	9	1		
7 Fav group 7	()		8		+	1		
8 Fav group 8		S	>	?	<.	C	ĸ	I		
		C/	PS		Del	-	OK		y	



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.

6 Exit

Select

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 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 amplituner 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.

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

When a constant of the set of th



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.

Solution wind that during recording, the information bar may be hidden by means of the EXIT 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 \bigstar / \checkmark 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



b 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 satellite 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.

Exerp in mind that during buffer playback, the information bar may be hidden by means of the EXIT 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 igtharpoon / igstarrow

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.

Solution 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 information about the signal and broadcasting parameters of the current channel.

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

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

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

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

DVB-C the Digital Video Broadcasting standard that defines modulation and error correction in satellite transmissions.

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

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

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

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

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

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

SPECIFICATION

Main Features		
	STB Type	DVBC Receiver
	Main Chipset	ALI 3602
Special Features		
	Encrypt	
	TUNER Type	ALPS TDAE2 /Thomson DCT7070X
	Demodulator Type	STV0297E
	SMPS Type	Separate SMPS
Mechanical		
	Dimension	W:26.0 cm D:21.3 cm H:4.5 cm
	Net Weight	1.5 kg
Main Chip Sets		
		266MHz
	CPU frequency	
	Flash Memory	1PC 32Mbit/4Mbyte
	SDRAM Memory	2PCS 32MX16bit/64Mbyte DDRs
DVBC Tuner		
		RF input IEC(F) Loop through:IEC M);Thomson
	Tuner Type50~858MHz	7070X/ALPS TDAE2
	Frequency Range	50~858MHz
	Input Impedance	75Ω
	pat impedance	-65dBm ~ -25dBm64QAM:<=34dBuV,>=95dBuV \Box
		256QAM:<=42dBuV,>=90dBuV□
	Input Level Range	QAM64 60dBuV 6.875Mbps/5.057Mbps
		BW:8/6MHz,<23.5; QAM256
		60dBuV 6.875Mbps/5.057Mbps BW:8/6MHz,<30;
	Loop-Through	50MHz~858MHz full Band loop through
DVBC Channel Decoder		
	DVBC Symbol Rate	QAM16/QAM32/QAM64/QAM128/QAM256
	DVBC Code Rate	8/6MHz
TS Demux		
	Demultiplexer	MPEG2 ISO/IEC 13818-1
	Input Bit Rate	Max 100Mbit/s
Video Decode		
		MPEG2 ISO/IEC 13818-2 MP@ML, H.264(MPEG4 part 10)
	Video Decode	main and high profile level 4.1/MPEG-2 MP@HL
	Video Resolution	1920×1080,1280×720,720×480
Audio Deco		1920/1000/1200/20/20/20/100
Audio Deco		MPEG-1 layerI/II, PCM downmix, IEC958 SPDIF, Dolby 5.1
	Audio Decode	channel, Dolby downmix 2 channel, Dolby Prologic2
	Sampling Frequency	
	Sampling Frequency	32KHz, 44.1KHz, 48KHz
AV Output		
	Video Bandwidth	SD:5.0MHz(-3dB),HD:30MHz(-3dB)
	Video Impedance	75Ω
	Video Voltage Level	1.0 Vp-р
	Audio Freq. Range	20 ~ 20KHz
	Audio Impedance	600Ω
	-	
Fasting	Audio Voltage Level	2V rms(5.6Vp-p)
Environment		
	Input Voltage	AC 100~250V/50Hz/60Hz
	Consumption	Max 15W
	Temperature	0~40
	Humidity	<95%