

# DVB-T Receiver UFT 171si



## Preface

Dear customer,

This Operating Manual is intended to help you make the fullest use of the extensive range of functions offered by your new DVB-T receiver. We have tried to make the operating instructions as easy as possible to understand, and to keep them as concise as possible.

You have chosen DVB-T, a TV standard which, provided reception conditions are appropriate, will provide you with optimum reception, including in combination with an adapted indoor, outdoor or roof antenna (such as Kathrein's BZD series), with no ghosting or any of the other disadvantages of conventional TV viewing.

We wish you good reception and much pleasure using your new DVB-T receiver.

Your  
KATHREIN Team

If you should experience any unexpected problems with your UFT 171si, please contact your specialist dealer or our hotline:

KATHREIN-Werke KG  
Technical Support Service  
Tel.: +49 8031 184-700  
Fax: +49 8031 184-676  
Internet: [www.kathrein.de](http://www.kathrein.de)  
E-mail: [technische-kundenberatung@kathrein.de](mailto:technische-kundenberatung@kathrein.de)

Our equipment is factory fitted with the most recent software version. We are constantly working on adapting the software to the wishes of our customers and to developments in technology. The 'Software and Programme List Update' section contains additional information.

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# Safety Instructions and Important Information

*This page contains important information about the operation, installation location and connection of the unit.*

*Read these instructions carefully before starting to use the unit.*



## Mains cable

Make sure that the mains cable (power supply cable) is not damaged. Units with a damaged mains cable must be disconnected from the mains (disconnect mains connector) and repaired by a qualified engineer before setup. Only use the power pack supplied (if available).

*Risk of death due to electric shock.*

## Cleaning

Disconnect the mains connector before cleaning the unit. Only use a dry cloth for cleaning and only clean the outer surface. Never open the unit.

*Touching the parts inside the unit carries a risk of death due to electric shock.*

## Playing children

Make sure that children do not push any objects into the ventilation slots.

*Risk of death due to electric shock.*



## Earth connection

The antenna system must be earthed as specified or equipotentially bonded. EN 60728/11 and any national regulations must be complied with.

*Danger due to surge voltages, lightning strikes.*

## Mains voltage

Only operate the unit with the specified mains voltage (marked on the rear of the unit or on the external power pack). The unit may only be connected to the mains and turned on once it has been connected to the antenna and to the TV set or the cable network and PC.

*If the mains voltage is too high, there is a risk of fire.*

## Repairs

Ensure that any repairs to your unit are carried out by qualified personnel. Opening the unit and attempting to repair it yourself voids all warranty claims.

Improper work on the unit can jeopardise the electrical safety of the unit.

*The manufacturer accepts no liability for accidents caused by the user opening the unit.*



## Connections

Incorrect wiring of the connections can lead to malfunctions or defects on the unit.

## Long periods of absence / storms

Always turn off the unit at the mains switch if you will be absent for a long time or there is a storm. If your unit does not have a mains switch, you can disconnect it from the mains by unplugging the mains connector. This also applies to the other equipment connected to the unit. Isolation from the cable network is also recommended. Note any timer programs (receiver) and turn the unit on again promptly before the recording time.



## Installation location

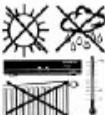
All electronic equipment generates heat. However, the heating of this unit lies within the permissible range. Sensitive furniture surfaces and veneers may become discoloured by the effects of constant heat over time. The feet of the unit can also cause colour changes to treated furniture surfaces. If necessary, place the unit on a suitable stable and flat base.



## Ventilation

The heat generated in this unit is adequately dissipated. However, the unit should never be installed in a cupboard or on shelves with inadequate ventilation. Never cover the cooling slots on the unit (e.g. with other equipment, magazines, tablecloths or curtains).

Do not place any objects on top of the unit and maintain a clearance of at least 10 cm above the unit, so that the heat generated can be dissipated with no obstructions.



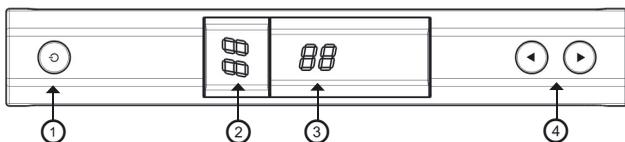
## Moisture, sunlight, heat

Protect the unit against moisture, dripping and splashed water (do not place any filled objects such as vases on top of the unit). Do not place the unit close to a heater or expose it to direct sunlight and do not operate it in damp locations. Only use the unit in a moderate climate, not in tropical conditions.

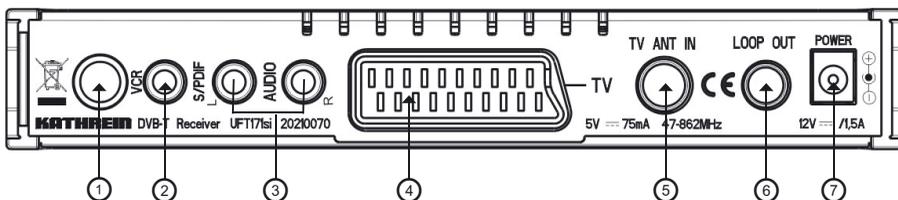
# Controls, Displays and Connections

This section provides a brief description of all the controls, displays and connections.

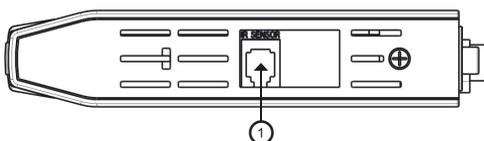
## Front View



## Rear View



## Side View



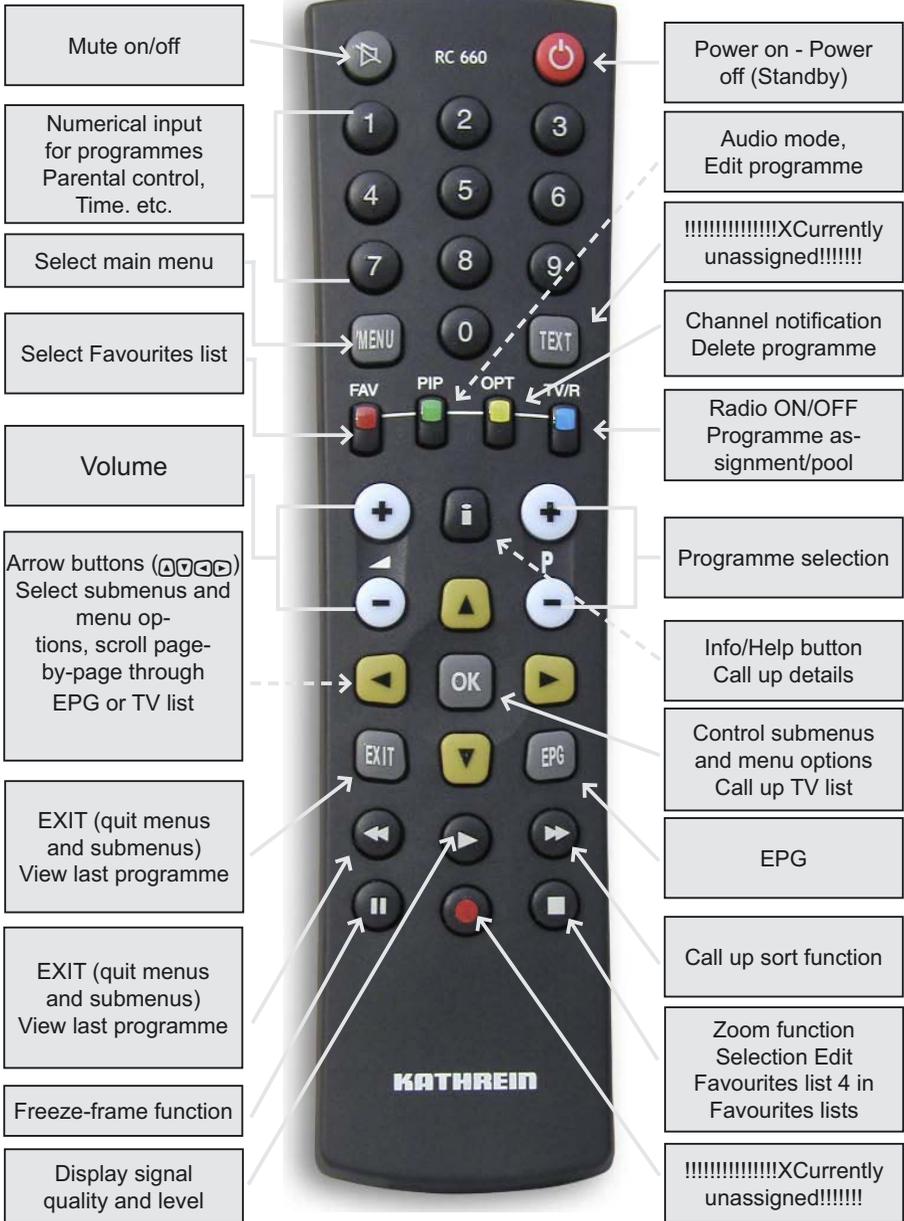
Front View		Rear View	
1	Power switch (ON/OFF)	1	VCR/DVR connection (signal as on Scart socket) <sup>1)</sup>
2	Display for vertical installation	2	Optical data stream output (SPDIF/Sony Philips Digital Interchange Format) for Dolby Digital AC 3 audio
3	Display for horizontal installation	3	Audio outputs, 2 cinch sockets, L+R channel
4	Programme advance buttons	4	Scart socket for TV connection
		5	Antenna input, RF signal
		6	Loop-through output, RF signal
Side View		7	Mains power cable
1	RJ 11 connection for IR mouse and software cable (software cable not supplied!)		

<sup>1)</sup> Cable (8-pin Mini-DIN Hosiden socket onto Scart) not supplied! You can order the cable as required from ESC (for address see "Software-Update").

# Controls, Displays and Connections

## Remote Control Function Buttons

The button symbols presented here can also be found in the description of the operating steps.



## Connection and Setup

This section is intended for the specialist dealer. You only need to refer to it if you are carrying out the installation yourself.

The "Connection Example" section provides a sample configuration.

Do not connect the unit to the mains power until all installation work has been correctly carried out. Refer to the information in the "Safety instructions" section.

### Antenna Connection

DVB-T TV was developed to enable you to receive a good quality TV picture anywhere, provided the signal is strong enough.

Connect the receiver either to your conventional stand-alone or community antenna through which you receive all VHF/UHF signals, or use an antenna developed for DVB-T (such as the BZD 30 or BZD 40 from Kathrein) for direct reception in residential areas (BZD 30).

DVB-T TV cannot work miracles however; you must be receiving a good quality signal. You may encounter problems in concrete buildings if you are using only an indoor antenna.



If you are using (or have to use) an active antenna - that is, an antenna with a pre-amplifier - you can power it from the receiver's antenna input. The default setting in the receiver is "OFF", to prevent any damage from occurring. Be sure to use an antenna tuned to a 5 Volt supply (such as the BZD 30 from Kathrein).

### TV Connection

Connect the UFT 171si (TV Scart socket) and the TV set by a Scart cable. If your TV has stereo capability, you can receive the sound in stereo via the Scart connection.

### Audio Connection

If you want to play the sound on your hi-fi system, connect the audio cinch sockets to the input sockets on the hi-fi system with an appropriate cable.

## Connection and Setup

### Dolby Connection

The S/PDIF data stream output (AC 3) is intended for connection to a Dolby Digital system.

### IR Receiver (Accessory)

The infrared receiver allows you to place the receiver in a concealed location. Connect the infrared receiver to the "IR SENSOR" socket and position it in line of sight of the remote control.

### Inserting Batteries in the Remote Control



Remove the cover on the rear of the remote control. Insert the two batteries supplied into the remote control, ensuring correct polarity - this is shown on the base of the battery compartment.

Slide the cover back onto the housing until it locks in place. Used batteries are special waste. Do not throw used batteries into your household waste; take them to a collection point for old batteries.



Electronic equipment is *not household waste!* In accordance with directive 2002/96/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of 27<sup>th</sup> January 2003 on used electrical and electronic equipment, it must be disposed of properly.

At the end of its service life, take this unit for disposal at a designated public collection point.

# Initial Setup

## Important Information



Before using the receiver for the first time, make sure that it has been assembled, installed and connected properly, as described in the “Connection and Setup” section and in accordance with the safety instructions.

## Getting Started

- Switch on the TV.
- Select the AV programme location for your receiver connection.
- Now connect the receiver to the socket outlet
- Press Ⓞ (Standby) to switch the receiver on.

The following on-screen display appears:



- Use the ◀▶- buttons to select the menu language you want to use.
- Use the ▼▲ buttons to move to the “Antenna” line and select your desired setting using the ◀▶- buttons. Selection “inactive” for an inactive antenna and “Active” when an active antenna is connected to the antenna input.
- Use the ▼▲ buttons to move to the “Auto Scan” line.
- Press Ⓞ to confirm your settings and start the scan.

The receiver then jumps automatically to the “Programme search” menu and starts autoscanning the complete frequency range.

## Initial Setup

The programmes/channels found by the receiver are stored in the preset programme list. You can then use the  buttons as usual to switch between the programmes.

Each time you switch on the unit the last reception status is restored.

If the message “Poor or no signal” appears on the screen as well as the display for the last programme received, check the installation of the system and/or the receiver settings. If only specific programmes are affected, the programme provider’s signal may be down.

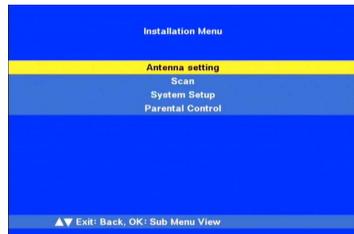
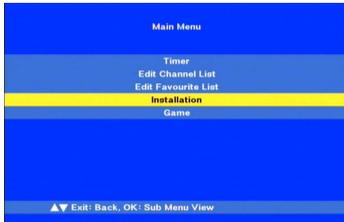


Please check the time is correct according to whether you are on Summer or Winter time (see “Installation”, “System Setup”, “Setting the Time”). If you have selected an incorrect time zone, you will get incorrect programme times!

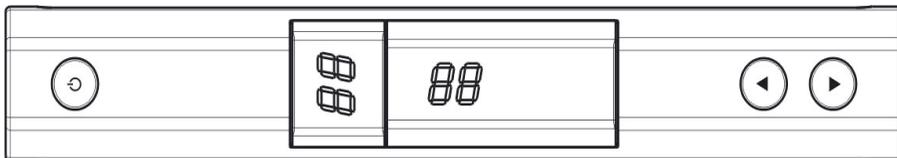
### Note:

*If you have changed the basic settings of your receiver and want to cancel them, you can select the factory settings at any time and restore the original setup (see ‘Installation’, ‘System Setup’, ‘Factory Reset’).*

# Menu Structure



## Using the Front Panel/Display



### Using the Front Panel

The unit has three operating buttons on its front panel.

You can use the “Standby” button on the left to switch the receiver from Standby to active and back again.

The two arrow buttons on the right side front are used to switch programmes.

### Display

There are two possible ways of installing the receiver (horizontal/vertical). To enable you to view the readouts on the display at all times, we have installed two displays on the UFT 171si: one for horizontal installation and one for vertical. You can choose on the Installation menu which display you want to activate (see “Installation”, “System Setup”, “Setting the LED”).

# Operation

## Programme Selection (TV and Radio)

For ideal reception your terrestrial antenna must be optimally aligned.

Use the  buttons to select the next or previous programme.

To select a programme from the TV list (programme list) press the  button.

TV List	
1	Das Erste
2	arte
3	Phoenix
4	EinsPlus
5	RTL2

Select the programme using the  buttons and press  to view it. The selected programme appears in full-screen view mode.

You can move from page to page in this list and the following ones using the - buttons.

You can also select a programme using the number pad buttons.



**Leading zeroes (e.g. 001 for the first programme in the TV list) must not be entered, as the  button is used to switch over the switching voltage on the Scart socket!**

Press  to switch from the TV list to the radio list. Select the programmes as in the “TV list” using the  buttons and the  button.

Press  to call up the Favourites lists and then press Press

### Note:

*This works only when DVB-T radio programmes are being broadcast!*

Radio List	
1	DLF
2	DKULTUR

## Operation

Press  to choose one of the four Favourites lists. Select the programmes as in the “TV list” using the   buttons and the  button.

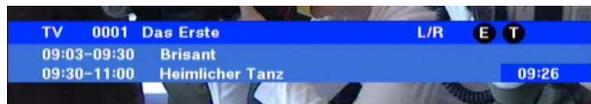
Press  or access a programme using the  button to hide the lists again.



## Channel Notification

If you switch programmes, the following information is displayed at the bottom of the screen:

- Programme type: TV or radio
- The programme name
- EPG (Electronic Programme Guide) reception is indicated by the letter “E”
- Videotext (Teletext) reception is indicated by the letter “T”
- Current and next programme



## Videotext (Teletext)

The receiver continuously transmits the Videotext/Teletext signal, if available, to the TV set.

You can call up and use the Videotext/Teletext as usual by way of your TV's remote control.

# Operation

## Electronic Programme Guide (EPG)

The **EPG** (Electronic Programme Guide) button displays programme information, provided the information is transmitted by the programme provider.

Use the **▼▲** buttons to switch between the programmes shown.

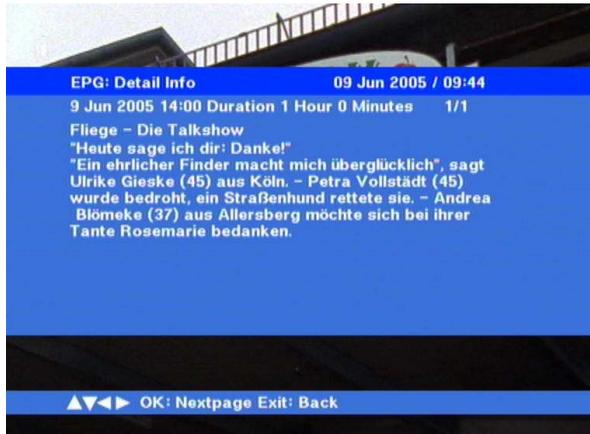


To preset a programme automatically, press the **⏰** button: The timer is then automatically set (see example on left). Press **EXIT** to quit the Timer menu.



## Operation

To view the details (Advanced mode) press the  button. The following OSD (on-screen display) is shown:



Use the  button to scroll through the details. You can also view the details directly while the current programme is running by pressing the  button twice. You see the details you want on the current running TV programme without having to switch to EPG mode first.



### Note:

*To be able to view the programme information, you must leave the programme in question on for a few moments.*

## User Control

If you press **[F]** while the current programme is running, you will access “Advanced Mode”. In it, you can view details on the current programme. You can still view the programme in the background.

### Audio

Press **[AF]** to view the audio (TV or Radio) being broadcast over the reception channel.

Select the audio and save it by pressing **[OK]**. If the programme is not transmitting language information, the receiver indicates “Unknown”. Switch between Left/Right/Stereo sound using the **[SOUND]** button.

Audio		
1	deu	
2	2CH	
3	DD	AC3

### Pause (Freeze-Frame) and Zoom

Press **[FF]** to switch to freeze-frame and press **[ZOOM]** to zoom the picture.

### Signal Quality Display

Adjust the receiver to the programme you want to receive and press the **[▶]** button.

The display indicates the level and quality of the signal being received (see example on left).

Press **[▶]** to quit the display.



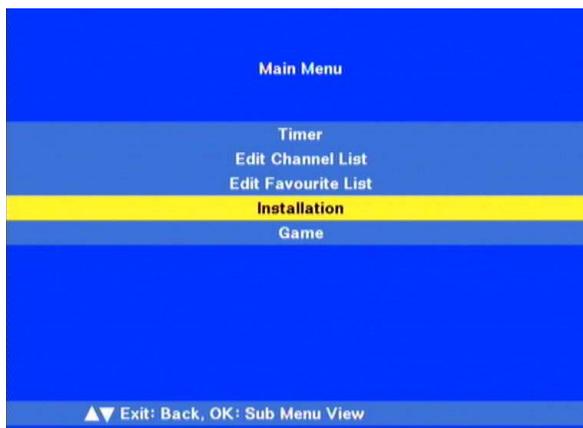
# Main Menu

## Accessing the Main Menu (MENU Button)

Press **MENU** to access the main menu, select the submenu you want and press **OK**.

Five submenus are available, as detailed in the following:

- 1) **Timer**  
Menu for preset programme recording or for automatic stop
- 2) **Edit Programme List**  
Sort, edit and delete programmes
- 3) **Edit Favourites List**  
Organise the channels (store, sort, edit and move)
- 4) **Installation**  
Menus for setting up the antenna, the channels, the system menus and the parental control
- 5) **Games**  
Two games are available

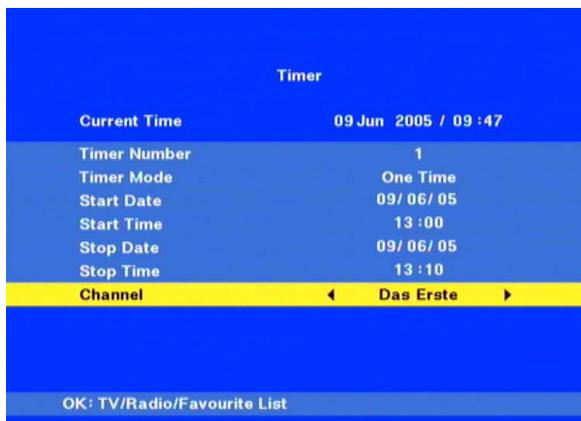


# Main Menu

## Timer Setting (Automatic Programming)

**Note:**

The timer can be programmed either by way of the EPG (see page 15) or as follows:



The screenshot shows a blue menu titled "Timer". The settings are as follows:

Timer	
Current Time	09 Jun 2005 / 09 :47
Timer Number	1
Timer Mode	One Time
Start Date	09/ 06/ 05
Start Time	13 :00
Stop Date	09/ 06/ 05
Stop Time	13 :10
Channel	◀ Das Erste ▶

At the bottom of the screen, there is a blue bar with the text "OK: TV/Radio/Favourite List".

The clock must be correctly set to ensure the timer works properly (see "Installation Menu/System Setup/Setting the Time").

1. Select the timer number (1 to 8) using the   buttons
2. Activate the timer by selecting Timer mode (once, daily, weekly, or sleep timer [receiver switches off automatically after a preset time])
3. To select the date, press the  button while in the "Date" field
4. A calendar appears, and you can then select the desired date using the     buttons
5. Press  to confirm your selection  
=> Alternatively: Select the date field - day, month, year - using the   buttons and enter the date numerically using the number buttons
6. Then select the start and end times. Press  to activate the input field. The first time digit is underscored in black and you can now use the number buttons to enter the time you want

## Main Menu

- To select the programme in the "Channel" field press **OK**.  
The programme list appears, from which you can select the programme you want using the **◀▶⏮⏭** buttons.  
Press **OK** to confirm your selection and import the programme into the timer
- Press **EXIT** to quit the menu.

## Organising Programmes and Favourites

### Sort:

- Press **MENU** to access the receiver's main menu
- Use the **⏮⏭** buttons to select the "Edit Programme List" option and confirm your selection by pressing **OK**



- Now select the programme you want to move using the arrow buttons (**⏮⏭**). The programme is highlighted yellow

## Main Menu



4. Press **Sort** ("Sort") and then **Manual** ("Manual")
5. To the right of the "Move to..." query enter the slot where you want to move the programme to, using the number buttons and press **OK** to confirm
6. Press **Exit** to quit the menu
7. Confirm the "Save sort" prompt by pressing **OK**
8. Enter the PIN number (if required) using the number buttons (the factory-set default is "0000")
9. Press **Exit** to quit the menu.

### Important!

**Once you have confirmed a sort order you can no longer access the previous list.**

### Favourites:

1. Press **Menu** to access the receiver's main menu
2. Select the "Edit Programme List" option and confirm your selection by pressing **OK**
3. Press **Fav** to access the "Favourite" menu
4. Use the **Up/Down** and **Left/Right** buttons to switch back and forth between the displayed programmes (the selected programme is highlighted yellow)

## Main Menu

5. Press the button assigned to the Favourites list to copy the selected programme to that list (F button = Favourites list 1, 1F button = Favourites list 2, 2F button = Favourites list 3, 3F button = Favourites list 4)
6. When you press the coloured button corresponding to the list you want to use, its number is displayed after the programme. To cancel your selection, press the same coloured button again. You can assign any programme to all four Favourites lists.
7. Press EXIT to quit the menu.

### Edit

1. Press MENU to access the receiver's main menu
2. Select the "Edit Programme List" option and confirm your selection by pressing OK
3. Press F to access the "Edit" menu.
4. Use the (V) (A) and (L) (R) buttons to switch back and forth between the displayed programmes (the selected programme is highlighted yellow)
5. You now have two options:
  - Block a programme by pressing F (You are prompted to enter the PIN code where necessary), or
  - Skip a programme by pressing F
6. To undo blocking or skipping a programme, press the same coloured button you pressed to perform the original action
7. Press EXIT to quit the menu.

## Main Menu

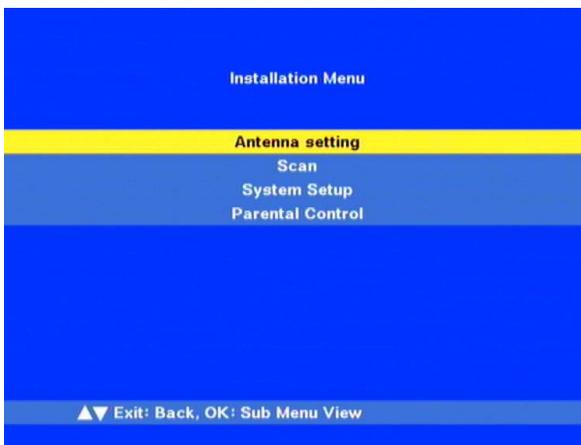
### Delete:

1. Press **MENU** to access the receiver's main menu
2. Select the "Edit Programme List" option and confirm your selection by pressing **OK**
3. Now press **OFF** to access the "Delete" menu.
4. Use the **▼▲** and **◀▶** buttons to switch back and forth between the displayed programmes (the selected programme is highlighted yellow)
5. To delete the programme press **OFF** (an "X" is displayed after the programme being deleted).
6. Press **EXIT** to delete the selected programme
7. To delete all programmes, instead of the **OFF** button press **OFF** and confirm the deletion by pressing **OK**
8. Where configured, you must enter your PIN and confirm it by pressing the **OK** button. To quit the menu without saving your changes, press **EXIT**.

### Caution!

***If you delete one or more channels you will only be able to relocate them by running a new channel search.***

## Installation Menu



Adapting the receiver to your reception system:

### 1) Set up the antenna

Select 5 V supply (Active/Inactive) to antenna using the

◀▶ buttons

### 2) Scan

Auto Scan (full scan), Net Scan (network scan), TP Scan (specific channels) and PID Scan (search for a specific programme by its PID).

### 3) System Setup

Adapt to your TV set and make other custom settings, or reset to the factory defaults: You can restore the factory default settings with which your receiver was shipped (= factory reset).

### Important!

*In this process all the changes you have made to the programming of the receiver are deleted.*

### 4) Parental Control

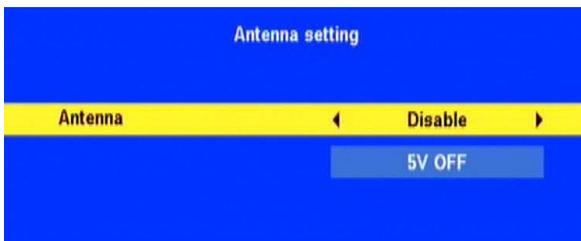
Block menu access and password change

### Note:

*The receiver is pre-programmed and shipped with an installation menu protected by the default password "0000".*

# Installation Menu

## Antenna Type



### Note:

If you are using a DVB-T indoor antenna (e.g. the BZD 30 from Kathrein) the antenna will need a 5 V supply. If the antenna has its own power supply, the default 5V OFF (Inactive) setting must be retained.

## Scan

It may be necessary to update the programme list (such as in the event of changes to the programme assignment).



On this menu you can perform the scan.

### 1) Scan mode

Select the scan: All or FTA (free-to-air programmes only) - If you perform a scan for all programmes all the programmes will be stored, including the encrypted ones; otherwise only the FTA programmes will be stored.

### 2) Auto Scan

All channels in the range from 177.5 to 858 MHz are scanned for programmes (activate by pressing )

## Installation Menu

### 3) Net Scan

The complete network is scanned for network information (The result only appears if the information is broadcast by the provider) (activate by pressing )

### 4) TP Scan

This can be used to locate specific channels (activate by pressing ) . Press  to display a TP list

### 5) PID

Enter audio and video PID for detailed searching for specific programmes (activate by pressing )

Press  to start scanning the complete frequency range. The new programming is then placed in the main list (in the order of its factory pre-programming).

If you press  instead of the  button the scan is not started.

#### Note:

*If you are in a catchment area covered by two DVB-T networks, it may be that the AutoScan causes some channels to be duplicated in your channel list. You can simply leave them, or you can choose to use the programme offering the best picture (reception) and delete the other one.*

Press  to scan for a specific channel. The programme found are placed at the end of the programme list.

PID (Programme Identification) input:

Press , enter the video and audio PID and press  again. The programme is placed at the end of the main list, tagged "TV CH".

# Installation Menu

## System Configuration

### Language Settings

Access to the language menus: The following menu language options are available: German, Spanish, Italian, Czech, French, Portuguese, Polish, Turkish, Hungarian, Dutch and English. Also



Access to the language menus: The following menu language options are available: German, Spanish, Italian, Czech, French, Portuguese, Polish, Turkish, Hungarian, Dutch and English. You can also select your preferred languages for audio and subtitles here. Select using the   and   buttons. Confirm your settings by pressing .

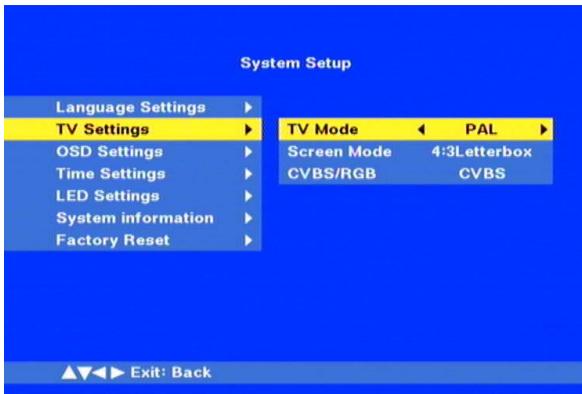
# Installation Menu

## TV Settings

Select the video output standard (PAL, NTSC, SECAM, AUTO), screen mode (4:3 or 16:9) and output signal at the TV output:

CVBS: Composite colour video signal

RGB: Individual signals for Red/Green/Blue

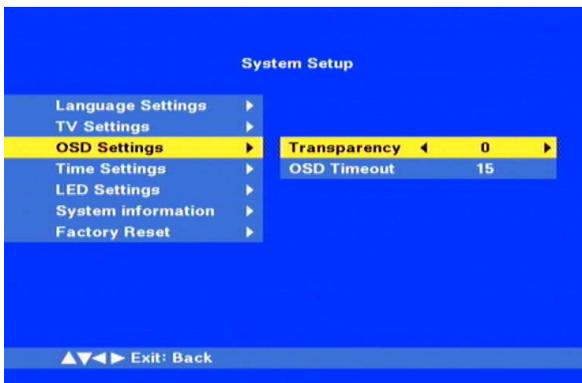


### Note:

*Selection of the screen mode (4:3 or 16:9) always depends on your TV set, and not on the programme you selected!*

## OSD Settings

Select the menu transparency and display parameters using the   buttons.



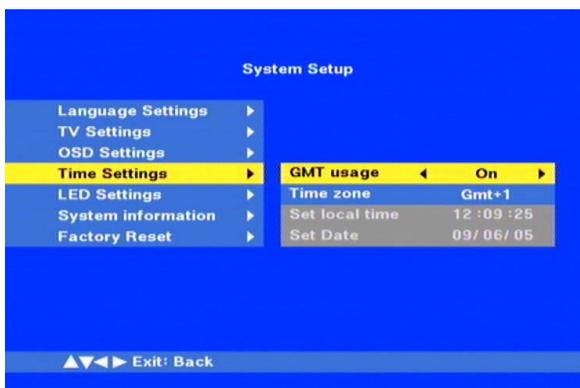
# Installation Menu

## Clock Parameters

The time and date must be programmed to enable the receiver to display the correct data in information messages and for operation of the timer.

The internal clock is set as follows:

- a) Apply the broadcast time (default). In this case the time difference between GMT and the location (in Germany + 2 hours in Summer, + 1 hour in Winter) must be allowed for.
- b) If you select "Off" in the first field, you will need to enter the time and date manually using the number pad.



### Note:

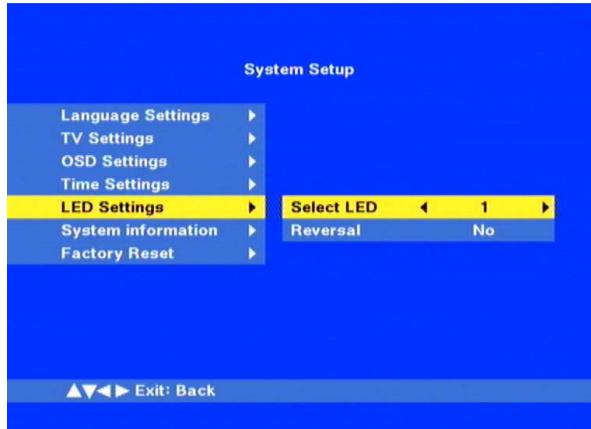
*It may be that some programmes do not transmit the correct GMT time. In this case the receiver will display an incorrect time. To display the previous time, tune in to a different programme and wait a few minutes for the receiver to display the correct time again.*

# Installation Menu

## Setting the LED

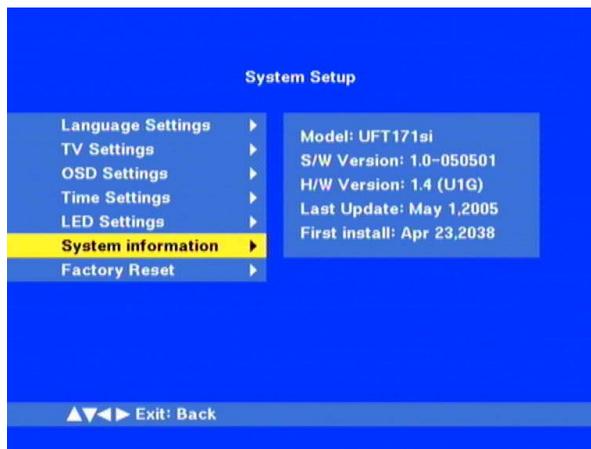
Select LED display (1 = horizontal receiver alignment, 2 = vertical receiver alignment).

When reversed the LED readout can be displayed mirrored, so that it remains readable in any installation position.



## System Information

Display of the receiver's hardware and software versions.



# Installation Menu

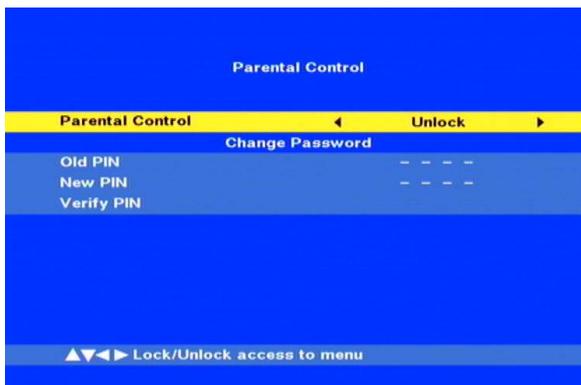
## Factory Reset

This menu is protected by the default password “0000”. If you have changed the receiver’s programming and wish to reset it to its factory defaults, select this line. Press **OK** and enter the password. After about a minute the memory will be updated. Turn the receiver off and back on again at its power switch. The same display appears as during first installation.

**Note:**

*The receiver is reset to its factory configuration. Any changes you may have made are lost.*

## Parental Control



On this menu you can lock all the menus to prevent incorrect settings from accidentally being made, and you can change the password.

When the parental control lock is active all menus are locked! No changes can be made without entering the password.

To change the password, enter the old password (Old PIN), then the new one (New PIN), and then the new one again to confirm it (Verify PIN).

**Attention:**

*If you change the password, be sure to make a note of it. If you forget your password the unit will require reprogramming at the factory, which is not covered by warranty.*

# Installation Menu

## Software Update

### Important:

*Updating requires a PC and a special cable (RS 232 to RJ 11 port)!*

If there is a new software release for your DVB-T receiver you can download it from:

[http://www.kathrein.de/esc-kathrein/  
download/receiv\\_soft.htm](http://www.kathrein.de/esc-kathrein/download/receiv_soft.htm)

The website also provides information and tips on software updating via the receiver's RJ 11 data port. You can order the necessary cable from ESC in Grassau, Germany, at the following address:

ESC Electronic Service  
Chiemgau GmbH  
Bahnhofstraße 108

83224 Grassau, Germany

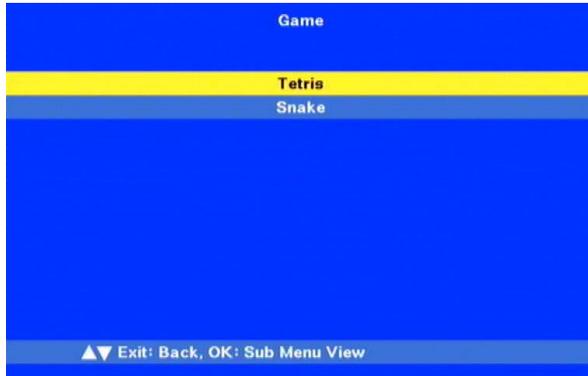
Tel.: +49 8641 9545-0  
Fax.: +49 8641 9545-35 & 9545-36  
E-mail: [service@esc-kathrein.de](mailto:service@esc-kathrein.de)  
Internet: <http://www.esc-kathrein.de>

### Note:

*A factory settings reset is required following a successful software download. Your old password will no longer be valid following the software update. You must now enter the password (0000) or the global default password (0786).*

*For details of how to perform the factory reset refer to page 23.*

# Games



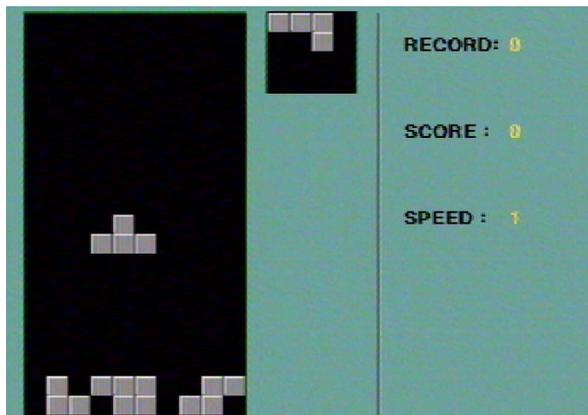
From the main menu use the   buttons to select "Games" and press .

You can then choose one of the twogames listed.

## Note:

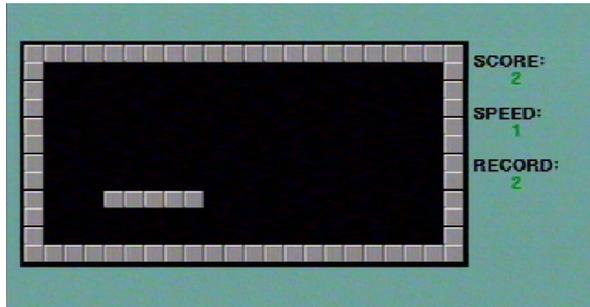
*After selecting a game, follow the instructions given on-screen. Games are controlled using the buttons as indicated below:     *

## Tetris



# Games

## Snake



# Technical Features and Data - UFT 171si

## Technical Features

The DVB-T receiver UFT 171si has the following features:

- Reception of FTA digital terrestrial TV and satellite radio programmes
- Tuner with loop-through output
- 1.000 programme memory positions
- Menu-guided first installation
- Electronic Programme Guide (EPG) for one week with short programme descriptions<sup>1)</sup>
- 8 timers, timer programming also possible using EPG
- Software Download via PC (RS 232)
- 4 favourite programme lists
- Automatic date and time setting via DVB data stream
- On-screen menu display (OSD) in 11 languages: German, Spanish, Italian, Czech, French, Portuguese, Polish, Turkish, Hungarian, Dutch and English
- 2 x 2-character LED display
- Language selection for multilingual broadcasts
- Electrical audio output for Dolby Digital data stream (AC 3)
- Composite colour, S-VHS and RGB signal output programmable via Scart socket
- VCR output via Hosiden socket <sup>2)</sup>
- Videotext/Teletext generation (for playback on TV)
- Automatic format recognition (optional 4:3 or 16:9 output)
- Programme scan
- Manual entry of PID data possible
- Programme position sort function
- Mute function
- Remote feed of an active DVB-T antenna via RF input
- Infrared remote control
- Power switch
- With external infrared sensor for concealed receiver installation

1) Only displayed if this information is broadcast by the programme provider

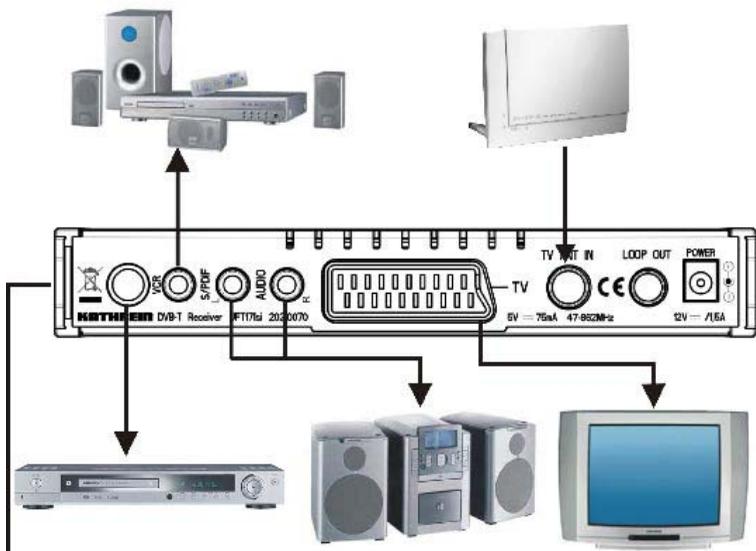
2) Cable (8-pin Mini-DIN Hosiden socket onto Scart) not supplied! The cable can be ordered as required from ESC (for address see "Software Update").

## Technical Features and Data - UFT 171si

### Technical Data

Type		UFT 171si
Order no.		20210070
Colour		Silver
<b>RF properties:</b>		
Input frequency range	MHz	174-230 and 470-862
Input level range	dB $\mu$ V	28-86 (with 16 QAM)
FM threshold	dB	
Channel bandwidth	MHz	7/8 switchable
Modulation mode		COFDM 2k, 8k
Mapping		QPSK, 16 QAM, 64 QAM
Guard interval		1/4, 1/8, 1/16, 1/32
FEC		1/2, 2/3, 3/4, 5/6, 7/8
<b>TV system Video:</b>		
Modulation, FEC, de-multiplexer		DVB-T standard
Video resolution		CCIR 601 (720 x 576 lines)
Video decoding		MPEG-1 and 2 compatible
Input data rate	MSymbol/s	5-32
Video bit rate	MBits/s	1,5-15
Frequency range	MHz	0,02-5
Output voltage	V <sub>ss</sub>	1
S/N	dB	> 53
<b>TV system Audio:</b>		
Audio decoding		MPEG-1 and 2, Layer 1 and 2
Sampling rate	kHz	32/44,1/48
Frequency range	kHz	0,04-20
Output voltage	mV <sub>ss</sub>	Typical 770
S/N	dB	> 65
<b>Memory:</b>		
Flash RAM	MByte	1
SD-RAM	MByte	32
Processor clock speed	MHz	165,8
<b>Power supply:</b>		
Mains voltage	Vac/Hz	80-260/50-60
Power consumption Power/Standby	W	<15/<10
Remote feed	V / mA	5/75
<b>Connections:</b>		
RF input/output		IEC socket/pin
TV connection		Scart socket
Audio output		2 x Cinch socket
Digital audio output (electrical)		Cinch socket
VCR output		Hosiden socket
Data port		RJ 11
<b>General:</b>		
Unit dimensions (W x H x D)	mm	194 x 30 x 140
Permissible ambient temperature	°C	+5 to +40
Weight (with power supply)	kg	0.35 (0.85)

# Connection Diagram



RJ 11 connection for IR mouse and software cable (software cable not supplied).

The cable of the IR mouse must be forward-facing when the unit is aligned vertically, otherwise it will prevent the pedestal from locking into place!

## DVB-T indoor antenna BZD 30



The antenna's reception range is 174-230 MHz in the VHF band and 470-862 MHz in the UHF band. As the BZD 30 is virtually omni-directional, no special alignment is required.

Depending on the mode of installation, both vertical and horizontal polarisation can be received. The remote feed (5 V/30 mA) is provided via the antenna output from the connected DVB-T receiver, e.g. Kathrein UFT 171si. The antenna offers an extremely low noise factor, and also features a filter to block GSM interference.

Its stylish design and compact size (140 x 195 mm) means the antenna will be a space-saving and attractive enhancement to any interior decor.

The supplied accessories include a pedestal for ease of installation, a wall bracket with fixings, and a 2 metre connecting cable.

## DVB-T Outdoor Antenna BZD 40



Active VHF/UHF antenna for outdoor use in receiving digital terrestrial TV and radio programmes (DVB-T). Easy wall or balcony mounting using supplied installation accessories.

The antenna's reception range is 174-230 MHz in the VHF band and 470-862 MHz in the UHF band.

The remote feed (5 V/30 mA) is provided via the antenna output from the connected DVB-T receiver, e.g. Kathrein UFT 171si. The antenna offers an extremely low noise factor, and also features a filter to block GSM interference.

The supplied accessories include a wall/balcony mounting bracket, a 10 metre connecting cable, an F connector and IEC connector, and an operating manual.

Internet: [www.kathrein.de](http://www.kathrein.de)

KATHREIN-Werke KG • phone +49 8031 184-0 • Fax +49 8031 184-306  
Anton-Kathrein-Straße 1-3 • P.O. Box 100444 • 83004 Rosenheim GERMANY

**KATHREIN**  
Antennen • Electronic

936.2799/A/0605/ZWT - Technical data subject to change!