

Operating Manual

DVB Satellite Receiver UFD 510



Order No.: 260 463

KATHREIN
Antennen · Electronic

Controls, displays and connections

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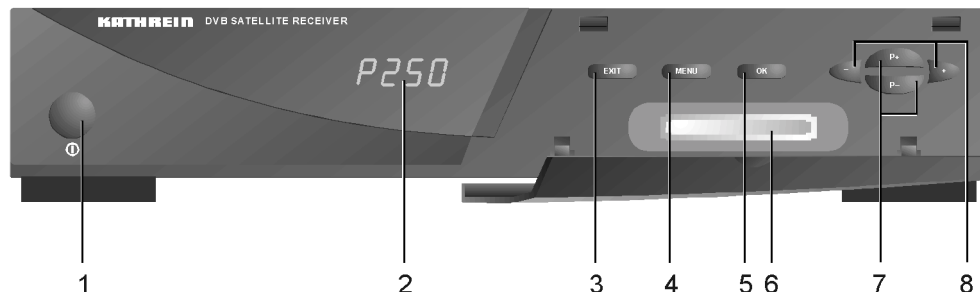
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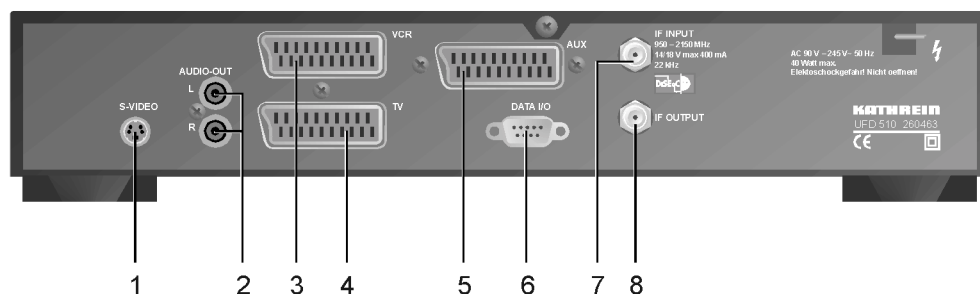
Controls, displays and connections

This section contains a brief description of all the control elements, displays and connections. The key symbols presented here are also used when describing the operating sequences.

View of front panel



View of rear panel



Front panel controls and displays

- 1 Mains switch (with mains isolation)
- 2 LED display (4-figure, 7-segment display)
To display programme slot and the parameters selected.
- 3 EXIT button
To exit from a menu or submenu.
- 4 MENU button
For calling up the main menu.
- 5 OK button
To confirm a selection.
- 6 PCMCIA card slot
For insertion of code cards for Pay-TV.
- 7 P+, P- buttons
 - a) To increment or decrement the programme slot by 1.
 - b) To step through programme list up or down pagewise.
- 8 +, - buttons
For volume adjustment, + louder, - quieter.

Rear panel controls and connections

- 1 Video socket
S-VHS video output
- 2 Audio output
2 Cinch sockets, left and right channel
- 3 Scart socket, VCR connection
- 4 Scart socket, TV connection
- 5 Scart socket, AUX connection
- 6 DATA socket
Interface for serial data transfer
- 7 Satellite IF signal input
Output of LNB supply voltage and control signals (22 kHz and DiSEqC 1.1)
- 8 Satellite IF signal output
Output for a secondary receiver. The Sat-IF signal is looped through.

























If connected up improperly, faulty operation may result or the unit may be rendered defective.

Controls, displays and connections

Remote control handset



Remote control handset keys

-  ON/OFF (Standby)
Attention: no mains isolation results!
-  Multilingual audio channels selection
-  Sound muting
-  Calls up the Electronic Programme Guide
-  Calls up main menu
-  Page to left or right in a menu- or programme selection.
-  Confirm a menu- or programme selection
-  Red, green, amber, blue colour keys
 - a) Red key: overlay the programme selection
 - b) Menu selection in Electronic Programme Guide
-  Switches between TV and radio programmes
-  Switches between TV and satellite system
-  Read character key.
-  Function key.
-  a) Last-function. Allows you to switch back to the last programme selected
b) Turns parental lock on and off
-  Calls up the timer menu
-  Switchover between two receivers
-  a) Increases programme slot number step-by-step
b) In programme selection, pages up by one page
-  a) Decreases programme slot number step-by-step
b) In programme selection, pages down by one page
-  Pages up or down in a menu or programme selection.
-  a) Exit from a menu or submenu
b) Cancel an application
-  0 = Calls up the micro EPG
-  to Numeric keys to enter the programme selection or to enter data
-  Volume adjustment

Controls, displays and connections

The following section contains important information relating to operation, place of installation and connecting-up of the receiver.

Read these notes carefully before putting the unit into operation.

Important notes regarding operation

Repairs



On no account remove the housing cover since dangerous voltages inside the unit are then exposed. The unit must be opened only by qualified specialists, so allow them to carry out any repairs or adjustments to your receiver. Unauthorised opening entails loss of guarantee.

The unit's electrical safety can be affected by improper tampering with the unit.

The manufacturer's liability excludes personal injury resulting from the unit being opened.

Children-at-play



Pay attention that children do not insert objects into the ventilation slots. There is a risk of mortal danger due to electric shock.

Mains lead



Make certain that the mains lead (power supply lead) is undamaged. Never put the unit into service if the mains lead is damaged.

Extended absence / thunderstorms



Always switch the unit off via its mains switch during periods of extended absence or at the onset of thunderstorms. This also applies to any other equipment attached.



Take account of any possible timer programming and switch the unit on again in good time prior to the time of recording.

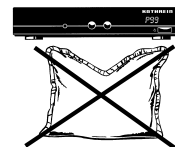
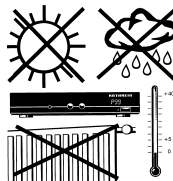
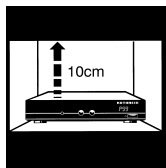
Cleaning



Withdraw the mains plug before cleaning the unit. Use a dry cloth for cleaning.

Safety instructions

Important notes for siting and installation



Place of installation

Every electronic device generates some heat. The rise in temperature, however, lies within safe limits. Nevertheless, this does not rule out the possibility of slight colour changes to sensitive furniture surfaces and veneers over the course of time due to the constant effect of heat.

In conjunction with treated furniture surfaces, the unit's rubber feet can likewise give rise to changes in colour. Where necessary, place the unit on a suitable pad.

Ventilation

The heat that is generated in this unit is dissipated quite adequately. Never install the receiver in a cabinet, shelf or rack with inadequate ventilation. Never close-off the openings on the unit that are intended for heat dissipation.

Do not place objects on top of the unit. Maintain a clearance of at least 10 cm above the unit so that the heat generated within the unit is convected away without obstruction.

Mains voltage

Run the receiver only from a mains voltage of 230V / 50Hz

The unit is not to be connected to the mains until after all installation work has been carried out properly.

Humidity

Protect the unit against humidity, drips and splashes.

Solar radiation/heat

Do not place the receiver close to radiators nor expose it to direct sunlight.

Grounding

The parabolic antenna is to be grounded in accordance with regulations. Here, the relevant German VDE regulations (or equivalent) are to be observed.

Connecting up and putting into operation



The following section is intended specifically for the specialist dealer. If you are not carrying out the installation yourself, there is no need to pay any attention to this section. Sample configurations are to be found in the "Connection examples" section.

Do not connect the unit to the mains until after all installation work has been carried out properly.

Follow the guidance given in section "Safety- and Installation Instructions".

Connecting up the unit

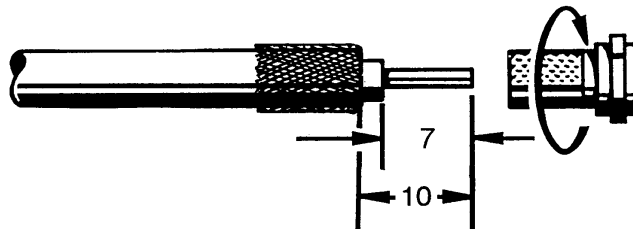
Satellite signal connection

- Connect the Sat IF input (5) of the receiver to the satellite receiving system.

For the connection use a coaxial cable with an F-type connecting plug.

If the F connector is not yet fitted to the cable:

- Insulate the cable as indicated in the following illustration, and
- Carefully screw the F connector onto the cable until it is firmly seated on it.



When fitting the plug, make certain that none of the fine wires of the braided shield makes contact with the inner conductor giving rise to a short-circuit.

Receiving system presets

Presetting carried out for the control signals was for conventional receiving systems, thus 14/18 V for polarity switching and 22 kHz switching signal for satellite selection in the case of multifeed receiving systems.

If DiSEqC or tone-burst switching matrices are to be used in the receiving system, the default setting must be changed in the initial setup menu, menu entry "DiSEqC"..

For this, refer to section "Initial settings, DiSEqC menu".

It is essential to comply with instructions for use of the multiswitch employed.

TV and video recorder connection

- Connect-up the satellite receiver (TV Scart socket) and TV set with a Scart cable.

If your TV set has stereo capability, a Scart connection allows you to receive the sound in stereo.

- Connect-up the video recorder and satellite receiver (VCR Scart socket) again using a Scart cable.

Audio connection

If you want to hear the sound via the hi-fi system, connect the audio Cinch sockets (view of rear panel, 2) and the hi-fi system with a Cinch cable.

Connecting up and putting into operation

Secondary receiver connection

You can connect an analogue secondary receiver to your digital receiver.

- For this, connect the Sat IF input of the secondary receiver to the Sat IF output of your digital receiver.
- Connect the AUX Scart socket of your digital receiver to the TV Scart socket of the secondary receiver.
- For correct operation, the unused receiver must be in standby mode.

It is essential to comply with the secondary receiver's instructions.

The schematic for connecting-up the secondary receiver is to be found in the "Connection examples" chapter.












Switching over remote control's command set

The remote control handset contains two command sets. This allows two receivers to be operated independently in a room (not in conjunction with a twin receiver).




Switchover is possible with all Kathrein remote control handsets.

For this, programme one receiver to command set A and the second receiver to command set B.

- Switch on receiver 1. Switch off receiver 2 using the mains switch on the unit.
- Press the  key and keep it pressed.
- Using the numeric keys  to  enter "901".
- To adopt the code, switch receiver 1 into standby using the  (standby) key, and then to off via the mains switch on the unit.
- Set receiver 2 back into operation.
- Press the  key and keep it pressed.
- Using the numeric keys  to  enter "902".
- To adopt the code, switch receiver 2 into standby using the  (standby) key and then back into operation again. Set receiver 1 back into operation as well.
- Press the  key and keep it pressed.
- Using the numeric keys  to  enter "903".



With the first two settings the remote control must be pointer towards the respective receiver which is switched on.

With the  key you can now switch between the two command sets A and B (toggle function) and operate the two receivers in alternation.



Operate only one receiver. If, due to maloperation, the active command set has been switched over rendering the receiver inoperable, the remote control can be switched back to command set A without difficulty. The procedure for this has already been described above.



With remote control handsets that have 24 keys (remote controls of the 200-series receivers from Kathrein) code numbers 001, 002 and 003 are to be entered in place of codes 901, 902 and 903.

Connecting up and putting into operation

Decoder connection

Decoders for reception of analogue Pay-TV programmes can be connected up only via an analogue secondary receiver (see connection diagram 3 in "Connection examples" chapter.)

- Set up the connection to the secondary receiver as described above.
- Using a Scart cable, connect the decoder to the decoder Scart socket of the secondary receiver.

Take note of secondary receiver and decoder instructions.

Inserting batteries into remote control handset

Remove the cover on the rear of the remote control handset.

- Insert both of the batteries supplied into the remote control handset. Make certain that the batteries are inserted with the correct polarity! Polarity is marked at the bottom of the battery compartment.
- Replace the cover again.



Exhausted batteries are special waste and should not be disposed of with household refuse. Instead, hand them in to a collection centre for used batteries!

Checking connections and operation

- Switch the satellite receiver on via the mains switch on the front of the unit. The LED display on the unit shows the programme slot P001.
- Switch on your TV set.
- Tune in to an audio-visual (AV) programme slot on your TV set.

You can now receive the factory-preset TV and radio programmes. To find out how to tune in additional TV and radio programmes, refer to sections: "Programming TV programmes" and "Programming radio station programmes".

If the "No Signal" display is shown for all programme slots, the installation of the system should be checked out. However, if only certain programme slots are affected, this may be due to an interruption in the signal on the transmission side.

On-screen display OSD



Note: All figures refer to German programmes and the OSD in German language. How to select the OSD in English is explained on page 37.

Electronic programme guide and applications

In this chapter, you learn how to select both TV and radio programmes using your receiver, how to adjust the volume and how to programme the timer functions.


In describing the functions, it is assumed that the receiver has already been properly connected up by the specialist.

Should you want to undertake the connections yourself, please read the section: "Connecting up and putting into operation" beforehand.



Switching the unit on


- Press the mains switch (1) on the front of the unit.

After a little while four horizontal bars "—" appear on the LED display indicating that the unit is switched on. Programme slot P001 appears.

- The  key on the remote control handset can be used to switch the unit between normal operation and standby.

In standby mode a horizontal line appears in the LED display "—".


If you switch on the receiver from standby with the  key,  is shown on the LED display.

On switching on with the  standby key on the remote control, the last TV programme slot that was selected is always tuned in.

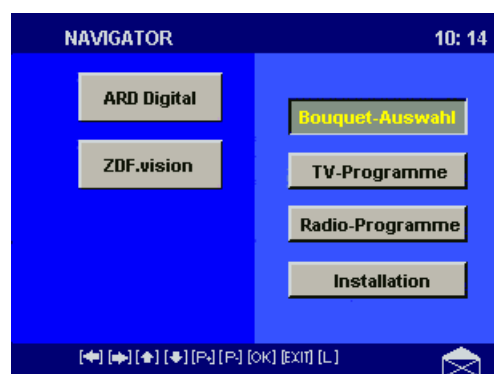
If the receiver was switched off via the mains switch, the time setting is lost. On switching on the time shows 1:00 (= Offset). After approximately 10 seconds the time is updated automatically.



Switching the Navigator on

- Press the  key on the remote control.



On the screen, the receiver shows the Navigator's first page:



The name and time are displayed in the header line. The remote control keys that can be used for navigation are indicated in the footer line. If an open envelope is displayed in the bottom right-hand corner, a new software version can be loaded from the satellite (see "Initial settings", "Settings", "Software Update").

A selected menu entry is displayed in white typeface on a dark background.

Electronic programme guide and applications










This starting page can be selected from all levels of the submenus by pressing the  key. With the  key, one is taken to the TV programme or, via the selection page, to the corresponding menu entry.

The menu selection is displayed on the right-hand side of the screen. It contains the following entries:

Bouquet selection	The Bouquets (compilations of programmes) are displayed on the left-hand side of the screen. The Bouquets shown in the illustration are for example only, and the Bouquets that appear on your screen may be different.
TV programmes	A list of all the TV programmes which can be received is displayed on the left-hand side of the screen. You can alter the order of the programmes in this list as desired (see "Initial settings", "Programme organisation").
Radio programmes	Digital radio programmes can be received via satellite with your receiver. Factory pre-programming for a multitude of programmes is already done. If you connect the Cinch inputs of your stereo system to the Cinch outputs (2) on the rear of your receiver, you will be able to listen to radio programmes with greater fidelity. You can turn off your TV set. A list of all the radio programmes which can be received is displayed on the left-hand side of the screen. You can alter the order of the programmes in this list as desired (see "Initial settings", "Programme organisation").
Installation	With this menu entry you can make settings and carry out checks on the receiver (see "Initial settings").

Selecting a TV or radio programme

To select a TV or radio programme proceed as follows::

- Using the   keys move step-by-step to the menu entry "TV programmes" or "Radio programmes".
- With the  key or the  key, select the left side of the Navigator.
- Move step-by-step to the desired programme using the   keys.
- Confirm your selection with the .
- To select a programme you can also use the   keys.

Both keys have two different functions:

The key  key

- scrolls up a page if you are located in programme selection.
- increments the programme number by one if you have selected a programme.




Electronic programme guide and applications

The  key


- scrolls down a page if you are located in the programme selection.
- decrements the programme number by one if you have selected a programme.

Example

You want to select the TV programme, "Pro 7". You start with the menu selection "Bouquet selection". The order of the TV programmes is, of course, for example only and depends on your settings.



- Press the  key. The menu option "TV programmes" is selected, and the TV programmes which can be selected are shown on the left-hand side.
- Press the  key. As a result the topmost TV programme, "Das Erste" in our example, is selected.
- Now continue pressing the  key until the TV programme, "Pro 7", is selected.



- Confirm your selection by pressing the  key. The programme selected is displayed on the screen.



TV or radio programme selection by entering a number

Whilst a TV programme is running, you can also select another TV programme by entering the number of the programme slot. The same also applies for selection of a radio programme.

- To enter the number of the programme slot use the numeric keys  to 

Example


You want to select the TV programme "DSF". This is located at programme slot 015. The order of the TV programmes is naturally just an example, and depends on your particular settings.

- Enter the digits   in sequence. The time that the receiver waits for input of the next position is approximately 3 seconds.




Leading zeros must be omitted.

After the programme changeover, the programme slot, programme name and time are superimposed on the upper part of the screen for approximately 3 seconds.

If the particular programme is encrypted, the character  appears on the left next to the programme slot


Switchover between TV and radio programmes

Whilst a TV programme is running you can switch over to a radio programme.

- Press the  key on the remote control.

The receiver switches over to the most recently used radio programme slot. With the same key you can also switch back to the TV programme.

Information about the current programme


Programme information giving the programme slot, programme name and time is called up via the  key. If further information relating to the current and subsequent broadcast in the DVB data stream is also present, this is displayed as well.



Adjusting the volume



Ensure that the TV set's volume control is set to a comfortable listening level for the room.

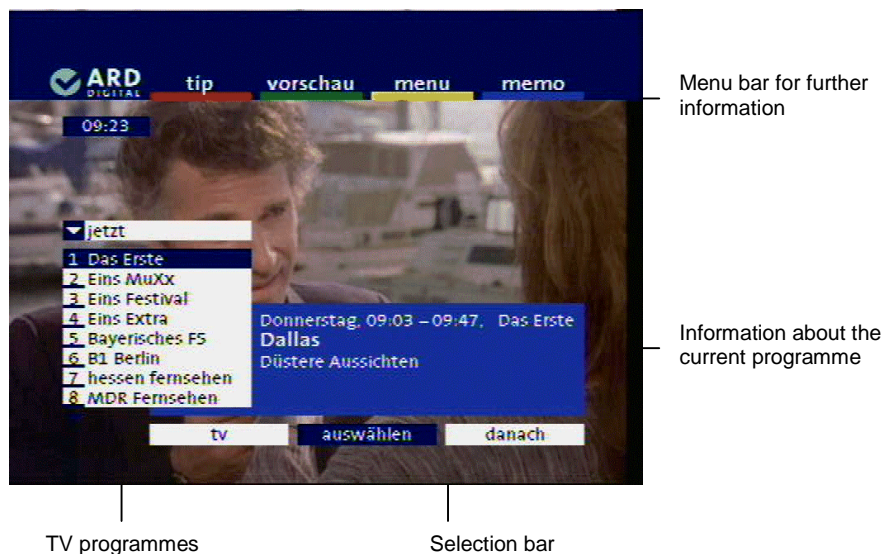


- Adjust the desired volume using the  key on the remote control, pressing either "+" (louder) or "-" (quieter). A 15-level bar display appears on the screen which indicates the volume selected. This volume bar can be seen only when the TV set is turned on.

Selecting TV programmes using bouquet selection

A bouquet is a selection of programmes put together by the broadcasting institution. This selection is displayed under a common name, e.g. "ZDF.vision".

- Choose "Bouquet selection" on the right-hand side in the Navigator.
- Press the  key. This results in selection of the topmost programme indicated in the bouquet selection ("ARD Digital" in our example).
- Confirm your selection by pressing the  key. The programme, "Das Erste", is displayed on the screen.
After a brief pause an electronic programme guide, EPG, is overlaid on the screen.



Upper screen

The bouquet name, and a menu bar for further information, is displayed in the upper part of the screen. The menu entries are underscored in colour and can be displayed using the corresponding colour keys on the remote control handset. These menu entries are described in the section entitled "Electronic Programme Guide (EPG) and Applications".

Centre screen

In the centre part of the screen, the picture for the current programme is obscured by the selectable TV programmes, and by data relating to the current programme.



Lower screen


The lower part of the screen contains a selection bar with the following entries:

tv

The screen display of the selected programme is shown without the additional information superimposed.

select



The TV programme can be selected in picture section "now" using the   keys. The selected programme is displayed in reverse video, i.e. white typeface on a black background. Where available, the title of the current broadcast and broadcasting time is displayed for the selected programme. The

TV programme is selected with .

Electronic programme guide and applications





After this

The information for the current programme shows the title and broadcasting time of the subsequent programme. The lettering of the menu entry changes into "now". This allows you to switch back to the current programme.


These menu entries in the selection bar can be selected with the  keys. A selection must be confirmed with .



Example

You want to select "Bayerische FS" from the "ARD Digital" bouquet. "Das Erste" is selected as the current programme. The order of the TV programmes is, of course, only an example, and depends on your settings in the bouquet.

- Keep pressing the  key until "Bayerisches FS" is selected. The title and broadcasting time of the current programme is displayed.
- Confirm your selection with .
- Press the  key once. In the selection bar "tv" is selected or confirm your selection with .

The current programme of Bayerisches Fernsehen is shown on the screen.

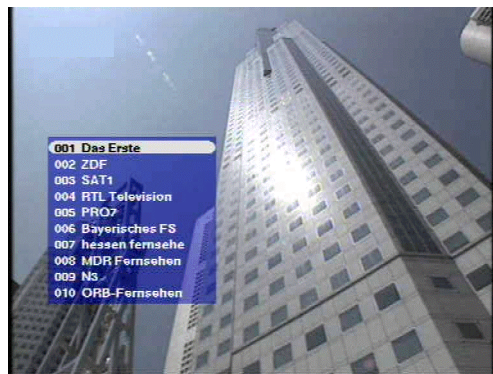
- Press the  key to return to programme selection again.

If you are located within a bouquet (APPL), a programme change can be carried out using the   keys.








Calling up the programme list

By pressing the red key on the remote control handset the programme selection is superimposed on the screen transparently (not in the bouquet).



The current TV or radio programme is indicated on the screen in black typeface on a light background.

- Use the   keys to scroll through the programme choice and select a new programme with the   keys.
- Confirm your programme selection with the  key.


The superimposed programme choice disappears again when the red key is pressed once more.

A further pressing of the red key again causes the programme choice and current programme to be superimposed.



With a radio programme tuned in, the programme choice can be seen only when the TV set is turned on.

Multilingual programmes


Certain TV programmes are broadcast in a number of different languages. In the case of a film, both the original sound and the English translation, for example, may be broadcast.

- You can switch between the various languages by pressing the  key on the remote control.

Muting the sound

- Press the  key on the remote control. The sound is turned off, allowing you to telephone in peace, for example. The indication “:” appears on the receiver’s LED display.
- Pressing the  key again turns the sound back on.
- Programme changeover or volume adjustment turns the sound back on.




Switchover between two TV programmes

With a TV programme currently running, the  key allows you to switch back to the TV programme previously selected. With this key you can therefore switch between the two most recently selected TV programmes.



In the same way, you can also switch between two radio programmes.

Sort programmes



TV and radio programmes can be sorted to suit your requirements. The programmes will be displayed on the screen in this order. The programmes are sorted by shifting the entries in the “TV list” or “Radio list”. To do this proceed as follows:

- Press the  key.
- In the main menu, select the “Installation” menu entry using the  key and confirm the selection with .

The “Installation” menu is displayed on the screen (see “Initial settings” chapter).




- Using the  key select the second menu entry “Programme Organisation” and confirm the selection with .

The “Programme Organisation” menu is displayed on the screen.

- Using the  key select menu entry “TV list” or “Radio list” and confirm the selection with .

The TV list or radio list is displayed on the screen with the present order of programmes.





Electronic programme guide and applications

- Using the   keys select the TV or radio programme, e.g. "Das Erste" and confirm the selection with .







For moving the programme highlighted


The selected programme is identified by means of a small amber double arrow on the right-hand side of the screen.

- Move the selected programme using the  keys to the position at which it is to be subsequently displayed in the "TV programmes" or "Radio programmes" list.
- Confirm the new programme slot with the  key.
- Move all of the other programmes by the same method until the order that you want is established.
- Use the   keys to scroll up or down a page at a time.



A further possibility:

To avoid having to scroll through long lists, programme slots can be selected directly:






- Selection of the programme to be sorted with the   keys or pagewise with the   keys.

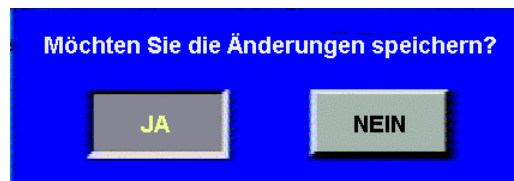
The selected programme is moved with the  key. After pressing this key the programme slot is set to 0000 and the maximum programme number is displayed.




- Enter the programme slot using the numeric keys  to .

Electronic programme guide and applications

- By pressing the  key, the programme is moved to the programme slot selected.
- Whilst you remain in the TV or radio list, you can sort programmes using the  key or the  key
- Exit from the "TV list" or "Radio list" menu by pressing the  key .
- Then respond to the following query with the  key.



- End each of the menus "Programme Organisation" and "Installation" with the  key.

The TV and radio programmes are now sorted into your desired order.




Parental lock

You have the facility for locking TV or radio programmes. If a locked TV programme is selected, the message "Channel locked" appears on the screen.



The same message appears if a locked radio programme is selected, assuming that the TV set is turned on.

Changing locked programmes

To change parental lock the following steps are necessary:



- Press the  key.
- In the main menu, select the "Installation" menu entry using the  key and confirm the selection with .

The "Installation" menu (see "Installation") is displayed on the screen

- Using the  key, select the sixth menu entry, "Parental lock", and confirm the selection with .

A request appears on the screen asking you to enter a PIN (personal identification number).



- Enter the number 3010 using the numeric keys  to . This number is entered in a concealed manner with only "*" being shown in the white entry field.

The number is a fixed presetting and cannot be altered.







Electronic programme guide and applications

The screen shows the "Parental lock" menu.

This menu contains only a single query:

Kindersicherung aktiviert: NEIN










You can switch between the two entries "YES" or "NO".

- Select the "YES" entry using the  key.
- End the "Parental lock" menu by pressing the  key.
- Respond to the query "Do you want to save the changes?" with the  key.
- End the "Installation" menu with the  key .


Parental lock is now activated.

Locking a TV programme

The following steps are necessary to lock a TV programme:

- Press the  key.
- In the main menu, select the "TV programmes" menu entry using the  key.
- Select the list of TV programmes with the  key or the  key.
- Select the TV programme that is to be locked with the   keys and the   keys.
- Press the  key on the remote control.



012 FASHION 

The locked TV programme is marked with the  symbol.

- Where necessary, lock further TV or radio programmes using the same method.




Unlocking a TV programme

You can also unlock a previously locked TV programme by the same method.



- Select the locked TV programme.
- Press the  key . The symbol  disappears again.

Activating parental lock

After locking TV or radio programmes the following steps are necessary:

- Press the  key.
- In the main menu, select the "Installation" menu entry using the  key and confirm with .

The "Installation" menu (see "Installation") is displayed on the screen.



- Using the  key, select the sixth menu entry "Parental lock" and confirm the selection with .

A request appears on the screen asking you to enter a PIN (personal identification number).



Bitte PIN-Nummer eingeben

i

- Enter the number 3010 using the numeric keys  to . This number is entered in a concealed manner with only "*" being shown in the white entry field..

The number is a fixed presetting and cannot be altered.





The "Parental lock" menu is displayed on the screen .

This menu contains only a single query:



Kindersicherung aktiviert: JA

You can switch between the two entries "YES" or "NO".

- Select the "NO" entry using the  key.
- End the "Parental lock" menu by pressing the  key.
- Respond to the query "Do you want to save the changes?" with the  key.
- End the "Installation" menu with the  key.

Parental lock is now activated.

i

After locking a programme you should always set the "Parental lock" menu entry to "NO", since otherwise it is all too easy to cancel a lock.

Locking a radio programme

You can also lock or unlock a radio programme in the same manner. Proceed in a manner analogous to that described above.

Electronic programme guide and applications

The UFD 510 receiver works in accordance with the OpenTV standard. This allows for reception of the Electronic Programme Guide (EPG), the ARD Online channel and other additional functions. When one of the programme provider's applications is running, this is indicated on the LED display by **APPL**. The software in the receiver has **no** effect on these applications.

The Electronic Programme Guide is called up with the **EPG** key. The LED display shows **EPG** briefly. The application is then overlaid.

If the programme has no EPG information, "EPG not available" is displayed on the screen. However, you can call up the programme data that is available anytime with the **0** key.



The channel, "ARD digital", is displayed in the top line along with the following menu entries:

"tip"	Tips are shown for the various sections of a TV programme.
"preview"	A preview is shown of the programmes for the coming days.
"menu"	An overview of topics is displayed for the various sections of a TV programme.
"memo"	This allows you to put together TV programme with your personal areas of interest.

These four menu entries are selected with the corresponding colour keys **red**, **green**, **yellow**, **blue** on the remote control (see also "Selecting TV programmes using bouquet selection").

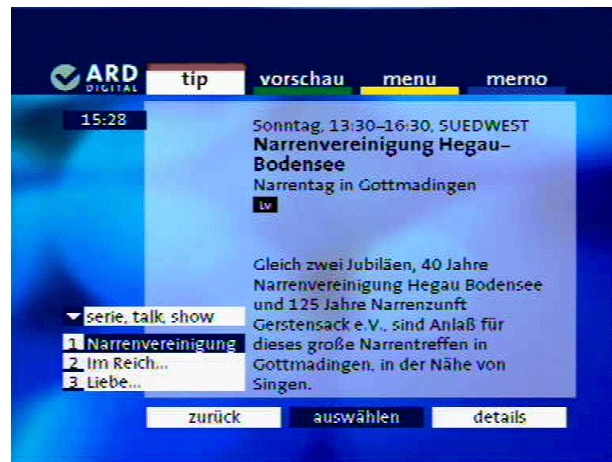
If, with the application running, you have selected a programme (TV picture visible without on-screen display), the **P+** **P-** keys can be used to step on to the next programme slot.



Electronic programme guide and applications

“tip“

The screen for selecting tips on the TV programmes is displayed. For example, here you can select tips on films, series, special themes etc. The following picture shows tips on topic “Series, Talk, Show“:



“preview“

With this menu entry you can obtain information on the broadcasts for the coming days. The following picture shows an example:



“menu“

Here all of the TV programmes are ordered by category. You can also access the radio broadcast programmes, the online channel and the “digital journal“. The latter contains still further information on ARD-DIGITAL.

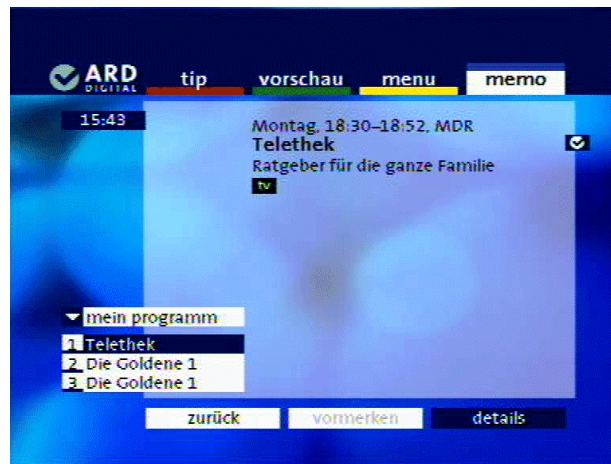
The following picture shows an example for “tv by genre“:



Electronic programme guide and applications


“memo“

The following picture shows an example for compilation of personal TV programmes:



Read character

The read character is a special feature of the EPG. With this read character you obtain additional information on the current broadcast or broadcasts can be noted down. You will be notified of broadcasts that deal with similar topics or which explain the topic even further.

The read character is called up with the  key.

The presentation shown is for example only and may vary according to the particular programme provider. The programme providers reserve the right to make changes to the bouquet. Further information can be obtained with the application running by pressing the blue key.



Initial settings

The “Installation“ menu entry in the main menu is used for initial setting of the satellite receiver and for matching it to the satellite system.

The receiver has already been factory preprogrammed for standard satellite receiving systems with a universal LNB. Thus changes are required only if the receiving system deviates from this type of system.




Changes in the basic setting of the receiver are generally carried out by the installer when the satellite receiving system is installed. We recommend that the installer notes down the altered basic setting on page 45 in this operating manual.

In addition to this, you can:

- alter the order of the bouquets
- alter the order of TV and radio programmes
- execute an automatic search run on a new digital broadcasting station
- install a new digital transponder
- activate or deactivate parental lock
- alter antenna settings, TV type and time
- load new system software
- programme the timer
- carry out an application check
- stipulate the language for the screen displays
- stipulate common interface settings

Calling up the “Installation” menu





The following steps need to be carried out to call up the menu:

- Press the  key on the remote control.
- Select the “Installation“ menu entry in the main menu using the  key and confirm the selection with .





The “Installation“ menu is displayed on the screen



Initial settings

You can select the menu entries using the   keys and action them with the  key. The  key is used to leave the "Installation" menu.








You can exit from a menu or submenu at any time with the  key. No further reference will be made to this in describing the menu entries. The  key exits you from all submenus to the starting page of the Navigator. The  key returns you to the TV programme, the  key returns you to the Installation menu.

Bouquet organisation

After selecting this menu entry, the bouquets available on your receiver are displayed on the screen in the order that they appear in the main menu under menu entry "Bouquet selection". You can change this order:

- Select the bouquet using the   keys and confirm this selection with  key.

An amber double arrow is overlaid on the right-hand side of the screen (see "Sort programmes" section).

- Move the bouquet selected to the desired position using the   keys.
- Confirm the move with the  key, exit from the menu with the  key and save the change with the  key

Programme organisation

This menu contains the following submenu entries:

"Transponder list"	List of all programmed transponder
"TV list"	List of all TV programmes
"Radio list"	List of all radio programmes






Transponder list

After selecting this submenu entry, the list of all programmed transponders is displayed on the screen.

RTL	11054H	EUTEL13
------------	---------------	----------------

A transponder entry contains:

Name of transponder	e.g. RTL
Transmission frequency (in MHz)	e.g. 11054
Polarisation (vertical, horizontal)	e.g. H
Name of satellite	e.g. EUTEL13

You can scroll through the transponder list using the   keys and the   keys. When you select a transponder with the  key, you are shown which TV programmes and which radio programmes are broadcast via this transponder.

Initial settings

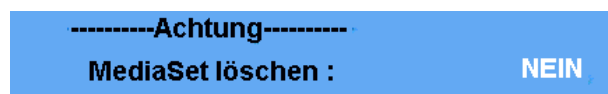
Programme von RTL		18:38
RTL Television	134	
CNN	135	
NBC	136	
VOX	140	
SAT.1 CH	141	
n-tv	142	
MagicStar	52	

A selected programme is displayed in white typeface, a TV programme is shown in black typeface and a radio programme in dark blue. The programme name and the number of the programme slot is indicated for each programme.

Deleting a transponder or a programme

In the transponder list, you can delete a transponder and all its programmes or just a single programme of a transponder:

- Using the keys and the keys select the particular transponder that you want to delete.
- Press the key. A warning message is displayed on the screen:



In this example, "MediaSet" is the name of the transponder to be deleted.

- Press the key if you really want to delete this transponder. The "NO" changes into "YES".
- Confirm the deletion with the key. The transponder list is displayed on the screen with the deleted transponder now no longer present.
- Terminate the menu using the key and save the change with the key





If you want to delete a programme belonging to a particular transponder, select the transponder and confirm the selection with the key. From the programme list select the particular programme that is to be deleted. The rest of the procedure corresponds to that for deleting a transponder.



If you should have deleted transponders or programmes by mistake, they can be found again via the autoscanner routines. Once found, the programmes are appended to the end of the programme list.

Initial settings


TV list

A list comprising all the TV programmes that can be received is displayed on the screen. You can scroll through the TV list using the   keys and   keys.

Das Erste	1
ZDF	2
Phoenix	3

Programme name and number of the programme slot are shown in each case. The order of the programmes can be changed (see "Sort programmes" section).

The frequency, polarisation and name of the satellite can also be displayed for the chosen TV programme.

- Press the  key on the remote control handset. The display changes:

<- 12603H ASTRA19	1
-----------------------------	----------

The following are displayed:

Transmission frequency (in MHz)	e.g. 12603
Polarisation (vertical, horizontal)	e.g. H
Name of satellite	e.g. ASTRA19
Programme slot	e.g. 1

- Press the  key in order to reset the display again.

Radio list

A list comprising all the radio programmes that can be received is displayed on the screen. The remarks made regarding the TV list are also applicable here. The order of the programmes can likewise be changed (see "Sort programmes" section).

Automatic search run

This menu contains the following submenu entries:

"Automatic search run"	Automatic search run for programmes with predefined transponder data
"Transponder search run"	Automatic search run for programmes without corresponding transponder information
"Transponder list"	List of the transponders that can be searched


Initial settings

Automatic search run

An automatic search is carried out for TV and radio programmes. After selecting this submenu entry the settings for the search run can be entered:


Suchlauf auf Satellit :	ASTRA19
Suchlauf auf Transponder :	ALL
Satellitenfrequenz MHz :	
Suchlauf :	
verschlüsselte Programme :	NEIN
<input type="button" value="Suchlauf starten"/>	

The meaning of the entries is as follows:

Search run on satellite The particular satellite on which a search is to be carried out for TV programmes can be selected using the  keys. The default setting is ASTRA19.

Search run on transponder

All transponders of the selected satellite are searched for programmes.

A particular transponder can be selected with the  keys. The default setting is "ALL".

Satellite frequency MHz If a particular transponder has been selected, the frequency and polarisation are entered here automatically. No default setting.

Search run With the "ARD Digital" transponder, an ASIUS search run can be carried out.
YES All programmes are searched for via the ASIUS system on ASTRA 19.

NO Only the selected transponder is searched.

ASIUS is a search routine for ASTRA satellites, which allows TV and radio programmes to be discovered rapidly (ASIUS = Astra Service Information Update System).



Encrypted programmes

NO No encrypted programmes are entered in the programme list. The default setting is "NO".

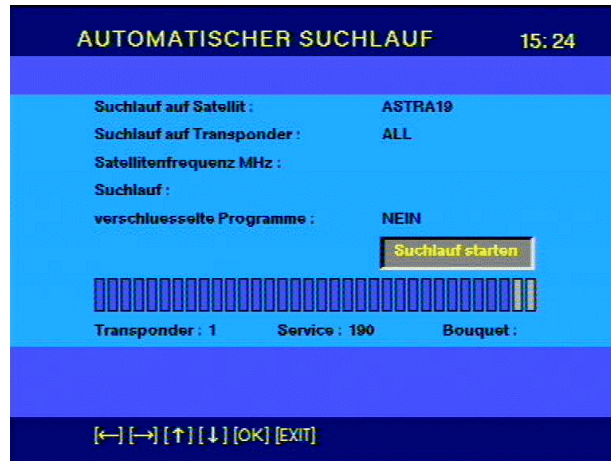
YES Encrypted programmes are entered in the programme list.

The following screen image shows the entries for an ASIUS search run:

Suchlauf auf Satellit :	ASTRA19
Suchlauf auf Transponder :	ARD DIGITAL
Satellitenfrequenz MHz :	12721H
Suchlauf :	JA
verschlüsselte Programme :	NEIN
<input type="button" value="Suchlauf starten"/>	

If the "Start search run" field is selected with the  key, the  key starts the search run.

Initial settings



A conveyor belt indicating the progress of the search appears in the lower part of the screen. Below it are displayed the number of new transponders found, number of services found and number of new bouquets found.

The services found comprise all TV programmes, all radio programmes and all data services.

After completing the search run a message appears: "Search run has finished!", which you should confirm with the **OK** key.

Transponder search run

A search is carried out for new TV and radio programmes, even if the transponder information (satellite frequency, polarisation etc.) is not available. After selecting this submenu entry, the settings can be entered for the search run:



The meaning of the entries is as follows:

Symbol rate	The symbol rate specifies the amount of data that is transmitted per second. It is measured in MSymbols/s and is equal to the number of symbols that arrive per second.	
Symbol rate 27500	YES	A search is carried out for transponders with a symbol rate of 27,500 MS/s. The default setting is "YES".
	NO	No search is carried out for transponders with a symbol rate of 27,500 MS/s.
Symbol rate 22000	YES	A search is carried out for transponders with a symbol rate of 22,000 MS/s.
	NO	No search is carried out for transponders with a symbol rate of 22,000 MS/s. The default setting is "NO".

Initial settings

Optional other symbol rate


Enter an optional symbol rate using the numeric keys  to .



Encrypted programmes

NO No encrypted programmes are recorded. the default setting is "NO".


YES Encrypted programmes are recorded.

Search run on satellite

The  keys can be used to select the satellite on which a search is to be made for new transponders, e.g. ASTRA19.

If the "Start search run" field is selected with the  key, the  key starts the search run.

Transponder list

The transponder list contains all of the transponders on which a search run can be carried out for programmes. All of the transponders recorded in blue typeface are defaults and cannot be changed. If a new transponder is set up with "New digital transponder", this is recorded in the list in black typeface. The data for this transponder can be altered with the  key.

The duration of the search run can vary from 5 minutes up to approximately 60 minutes.



The faster option for finding programmes on the ASTRA satellites is the ASIUS search run.





New digital transponder

The input field for entering data for the new digital transponder is displayed on the screen.




Name :	
Satellit :	ASTRA19
Satellitenfrequenz MHz :	00000
Polarisation :	Horizontal
Symbolrate :	27500
Viterbirate :	3/4

Name

Think up a name for the new transponder.

- Using the   keys enter the name of the new transponder as follows:
- Select the letter with the  key. The choice starts with the letter "A" at the point marked dark blue. Following the last letter, "Z", the numerals "0" to "9" are displayed. If the desired letter is displayed, move to the next input position with the  key.
- Select the desired letter there.
- Enter the name of the new transponder in this way.


If you want to change a letter proceed as follows:

- Using the   keys move to the position that you want to change.
- With the  key, the selection begins with the letter "A" again.



Satellite

In this menu line you can select a satellite that your receiving system is aligned towards.


Initial settings

- Select the desired satellite using the  keys, e.g. "EUTELSAT13".



Satellite frequency MHz The frequency of the new transponder is entered in this line.

- Enter the frequency using the numeric keys  to , e.g. 12379.





Polarisation The polarisation of the new transponder is selected in this line.

- Select the desired polarisation with the  keys, e.g. vertical.

Symbol rate The symbol rate of the new transponder is entered in this line.

- Enter the symbol rate using the numeric keys  to , e.g. 12379

Viterbi rate The Viterbi rate of the new transponder is entered in this line.

- Select the desired Viterbi rate with the  keys, e.g. 2/3.
- Confirm your entries with the  key.
- Leave the menu with the  key and save the changes with the  key

New digital programme

This menu entry is intended for subsequent extensions.

Parental lock

This menu entry is described in the "Receiver operation" chapter.

Initial settings

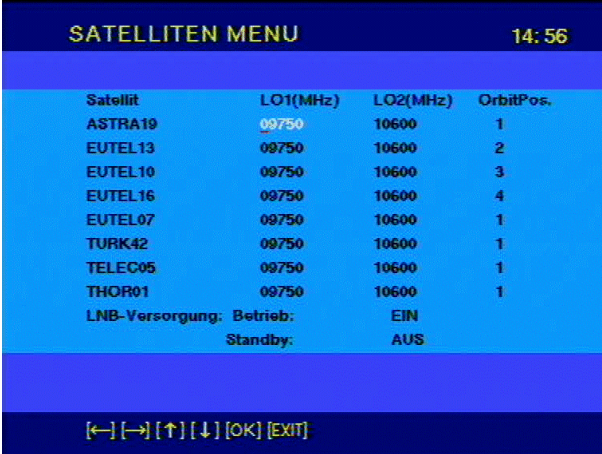
Settings

This menu entry contains the following submenu entries:

SATELLITE MENU	This submenu entry contains a list of the predefined satellites.
DiSEqC MENU	With this submenu the settings can be carried out for the DiSEqC signal.
TV TYPE	This submenu contains settings for the type of TV set used.
TIME	This submenu contains the time information and the time zone.
SOFTWARE UPDATE	With this submenu a new software version can be downloaded from the satellite.
SYSTEM DIAGNOSIS	This submenu contains information on the receiver.
ANTENNA DIAGNOSIS	With this submenu the alignment of the antenna can be checked.

SATELLITE MENU

After selecting this submenu entry the list of predefined satellites is displayed on the screen:



The screenshot shows a menu titled "SATELLITEN MENU" with a time display of "14:56". The menu contains a table of satellite data and LNB settings. At the bottom, there are navigation instructions: [←] [→] [↑] [↓] [OK] [EXIT].

Satellit	LO1(MHz)	LO2(MHz)	OrbitPos.
ASTRA19	09750	10600	1
EUTEL13	09750	10600	2
EUTEL10	09750	10600	3
EUTEL16	09750	10600	4
EUTEL07	09750	10600	1
TURK42	09750	10600	1
TELEC05	09750	10600	1
THOR01	09750	10600	1
LNB-Versorgung: Betrieb:		EIN	
Standby:		AUS	

The list contains the following details:

Name of the satellite,	e.g. ASTRA19
Frequency of local oscillator 1.	LO1=9750 MHz
Frequency of local oscillator 2.	LO2=10600 MHz
Order of connection when using DiSEqC multiswitches	e.g. 1
LNB supply voltage in operation and in standby.	

Initial settings

DiSEqC MENU

The settings for the DiSEqC signal are displayed on the screen:

22 KHz:	High/Low
Tone burst:	AUS
DiSEqC:	EIN
DiSEqC Wiederholung:	AUS
UFO mini:	AUS
Remote Frequenz:	1248MHz

The settings have the following meaning:

22 KHz

Settings:

High/Low	Switchover from low band to high band on LNB.
Pos A/B	Switchover between two satellite positions.
OFF	No 22kHz-controlled LNB is present in the system .

The default setting is "High/Low".

Tone burst

Settings:

OFF	The tone burst signal is switched off.
Pos A/B	Switchover between two satellite positions.
Opt. A/B	Optional selection
High/Low	Switchover from low band to high band on LNB.

The default setting is "OFF".

DiSEqC

Settings:

ON	The DiSEqC signal is switched on.
OFF	The DiSEqC signal is switched off.

The default setting is "ON".

DiSEqC repeat

Settings:

OFF	The DiSEqC repeat is switched off.
1	The DiSEqC signal is repeated once.
2	The DiSEqC signal is repeated twice.

The default setting is "OFF".

UFO mini

Settings:

OFF	No subscriber-controlled preprocessing system is present.
ON	A subscriber-controlled preprocessing system is present.

The default setting is "OFF".

Remote frequency

Intermediate frequency of subscriber-controlled preprocessing system.



Settings in the DiSEqC menu should be carried out only by trained specialists. Incorrect settings can result in loss of the satellite signals (reception no longer possible).

Initial settings

TV TYPE

The settings for the TV set are displayed on the screen:

Bildschirmformat:	4:3
TV-Standard:	PAL
Video-Ausgang:	RGB

The settings have the following meaning:

Screen format

The screen format for the TV set is determined by this setting.

4:3 The aspect ratio of the screen is 4:3.

16:9 The aspect ratio of the screen is 16:9.

The default setting is "4:3".

TV standard

The TV standard is determined by this setting.

PAL The PAL standard is permanently set.

Video output

The signal at the video output is adjusted with this setting.

RGB The RGB signal appears at the video output.

SUPER The S-VHS signal appears at the video output.

Select only the video output signal which your TV set is capable of processing.



TIME

The settings for the time are displayed on the screen.

Ortszeit	17: 02
Zeitzone:	GMT+1



The settings have the following meaning:


Local time

Local time is displayed. The satellite is used as timing element.

Time zone

The time zone is shown in relation to GMT (Greenwich Mean Time).
GMT+1 = MEZ (Central European Time). During summer time set to GMT+2.
An incorrectly set time also affects the timer.

If you have selected the menu line "Local time", the  key can be used to advance the time by one hour. With this the time zone is also increased. With the  key the local time is retarded by one hour and the time zone is decreased.

The time zones can be adjusted in the "Time zone" menu line using the  keys, which also results in simultaneous correct setting of the local time.

SOFTWARE UPDATE

The UFD 510 digital receiver comes supplied with the optimum system software. Over the course of time, it may become necessary to adapt the software to changed conditions.

This ensures that your digital receiver is always kept right up-to-date. The internal settings (e.g. TV and radio lists) are not altered as a result.

Initial settings

If an open envelope is displayed in the main menu, this indicates that a new version of the software can be downloaded from the satellite. The download process takes approximately 10 minutes. The result is displayed on the screen.

The software update operation is entirely menu-driven.

SYSTEM DIAGNOSIS

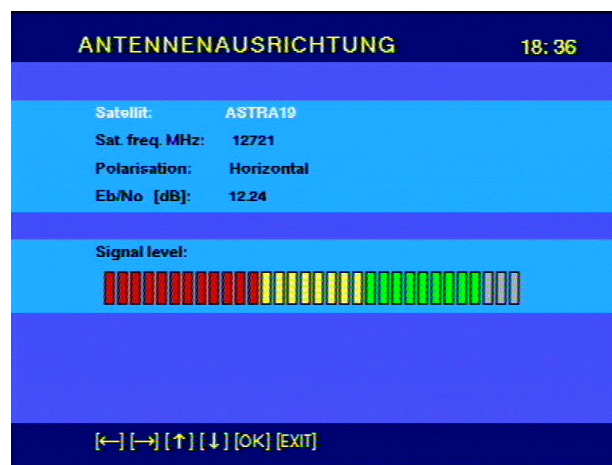
The system settings are displayed on the screen:

Software version :	1.10
Hardware version :	01
Benutzer ID :	FREETV_SOLD_IRD

These settings are for display only, and can only be altered with a software update.

ANTENNA ALIGNMENT

The antenna settings are displayed on the screen:




The settings have the following meaning:

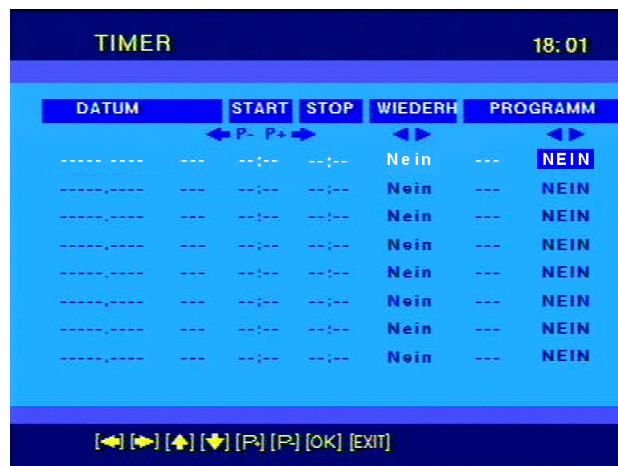
Satellite	The satellite whose antenna alignment is to be checked is selected in this menu line.
Sat. freq. MHz	The frequency of the current transponder is displayed.
Polarisation	The polarisation of the signal is shown.
Eb/No [dB]	<p>The Eb/No ratio in dB indicates whether the receiver is sufficiently locked on to the digital Sat signal. For good reception the receiver needs an Eb/No ratio of at least 4.8 dB. With Eb/No values below the reference value of 4.8 dB reception is generally no longer possible and the receiver switches off accordingly.</p> <p>If your receiver is showing Eb/No values that are too low there may be several reasons for this:</p> <ul style="list-style-type: none">- The gain of your satellite antenna is too low. That is, the diameter of your satellite dish is possibly too small.- There is a bad weather front situated between satellite and antenna which is temporarily impairing the reception.- Your satellite antenna is not aligned correctly.- You have selected a satellite at which your antenna is not aligned. In such a case, "not locked on" is displayed.
Signal level	The signal level is displayed by means of a percent modulation indicator. The further it is modulated into the green area on the right, the better is the alignment of the antenna on the satellite. An evaluation of the analogue signals is also carried


Initial settings

out. That is, if a signal level is shown and the Eb/No display indicates “not locked on”, there is inadequate reception of the digital satellite signals.

Timer



With the “Timer” menu entry, TV or radio programmes can be preprogrammed for automatic switch-on of the receiver. The  key takes you straight to this menu. The screen shows the following input mask:






By pressing the  key, programme “TV” is selected and the current time is entered.

Menu line for programming the timer:





The   keys are used to switch between columns. A selected column is highlighted in dark blue.



DATE

The date is entered in this column using the numeric keys  to . You switch from position to position with the  keys. The date is entered in the form dd.mm.yyyy. After entering the date, the day of the week is displayed next to the date.


START

In this column, the programme starting time is entered using the numeric keys  to .

STOP


In this column, the programme finishing time is entered using the numeric keys  to .

REPEAT

In this column, the  keys are used to specify the repetition of the programme's start-stop time.

- Day daily repetition
- Week weekly repetition
- Month monthly repetition
- No no repetition

Initial settings

PROGRAMME The programme slot is entered in this column using the numeric keys 0 to 9 and the  keys are used to select the type of programme.

- TV TV programme
- RADIO Radio programme
- NO No programme



If a timer event is being processed, all the remote control handset keys are barred except the Standby key. After processing a timer event the receiver switches into standby.

Application control

The EPG and the applications in general can be closed down. The screen display shows which application programmes are switched on.

SURFER	EIN
EPG	EIN
ALLE	EIN

The settings have the following meaning:

- SURFER
 - ON The on-screen programme information is switched on.
 - OFF The on-screen programme information is switched off.
- EPG
 - ON The programme information called up via the colour keys is switched on.
 - OFF The programme information called up via the colour keys is switched off.
- ALL
 - ON All applications are switched on.
 - OFF All applications are switched off.






These settings are valid only for bouquets. All positions of application control are set to ON.

Language selection (OSD)

The language for the OSD (on-screen display) is selected with this menu entry.

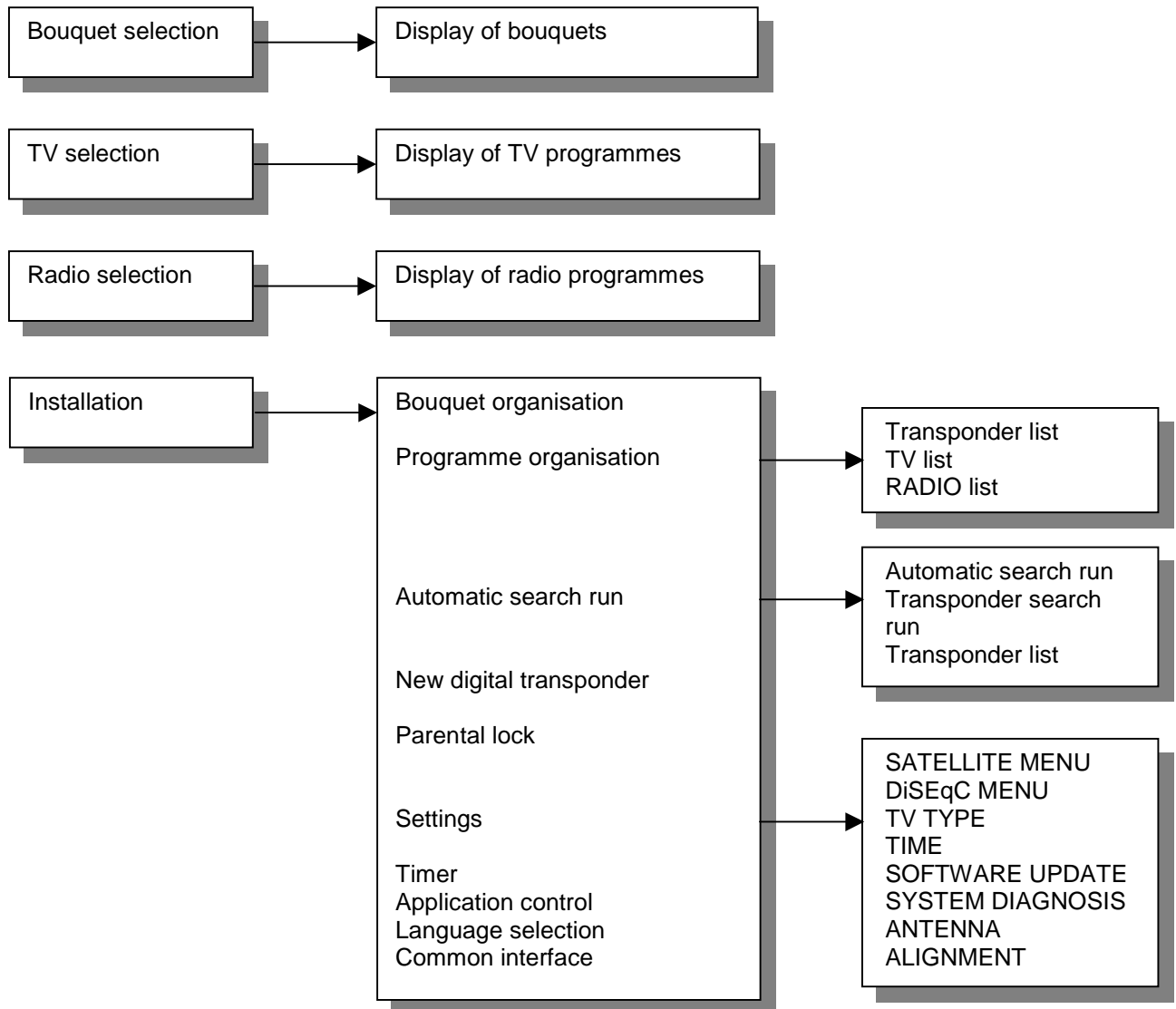
Deutsch
Englisch

Use the   keys to select the language and confirm this selection with the  key.

Common interface

The contents of this menu entry is dependent on the code card for Pay-TV which is inserted into the PCMCIA slot (view of front panel, item 6).

Menue structure



Features

The UFD 510 receiver is equipped with the following features:

- Based on the Open-TV standard
- Reception of electronic programme guides(EPG) (currently ARD and ZDF)
- Reception of additional information channels (e.g. ARD online channel)
- Prepared for future applications such as those from programme providers (e.g. games, home-shopping)
- Suitable for videotext
- 1000-channel memory
- Satellite input frequency range from 950 MHz to 2150 MHz
- Freely selectable oscillator frequencies, therefore suitable for all feed systems
- Radio button
- 8 event, 1-year programmable timer, with daily, weekly, monthly or no repeated switch-on
- Mains switch with mains isolation
- Automatic settings for date and time via DVB data stream
- Switching of language output
- On-screen display (OSD) 2 languages (German, English)
- 22-kHz control signal, programmable
- DiSEqC 1.1 and tone-burst control signal
- LNB supply voltage can be turned off
- Connecting socket for data copying function, RS232
- Sort functions for programme slots
- Sound muting
- Volume control
- Infrared remote control with command set changeover (allowing two receivers to be operated in a room)
- 3 Scart sockets (TV, VCR and AUX connection)
- Additional audio outputs via Cinch sockets
- Last-channel memory

Specifications

UHF characteristics

Sat IF frequency range	950 to 2150 MHz
Input level range	44 to 84 dB μ V
IF frequency	479.5 MHz
Reception threshold (Eb/No)	4.8 dB
Input connector	F socket
Input impedance	75 Ω

Video

Frequency range	20 Hz to 5 MHz
Output voltage	1 V _{ss} / 75 Ω
S/N	53 dB typ.
Input data rates	2-45 MSymbols/s
Modulation FEC demultiplex	Corresponds to DVB-S standard
Video resolution	CCIR 601 (720 x 576)

Audio

Frequency range	40 Hz to 15 kHz
Output voltage	typ. 770 \pm 50 mV into 10k Ω (TV Scart and Cinch)
S/N	>65 dB
Audio decoding	MPEG-1/2 lowers 1 and 2
Audio bit rate	32 / 44.1 / 48 kHz

Power supply

Mains voltage	230 V \pm 10%, 50 Hz
Power consumption	< 30 W
Power consumption in standby	< 8 W
LNB supply voltage	0, +14 V (vert.), +18 V (hor.)
LNB supply current	400 mA max.
Control signal	22 kHz square-wave 0.6 V _{ss} DiSEqC 1.1 Tone burst

Connectors

TV connector	Scart/Peritel socket, 21-way
VCR connector	Scart/Peritel socket, 21-way
AUX connector	Scart/Peritel socket, 21-way
Audio output	Cinch sockets
Data interface	RS 232 C

Specifications

General

Unit dimensions (B/H/T)	370 / 71 / 285 mm
Weight	Approx. 2.5 kg

Temperature range

Ambient temperature	+5 °C to + 40 °C
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Accessories

Infrared remote control
2 x 1.5 V batteries, type: LR 03, size: AAA (Micro)



1 Scart cable

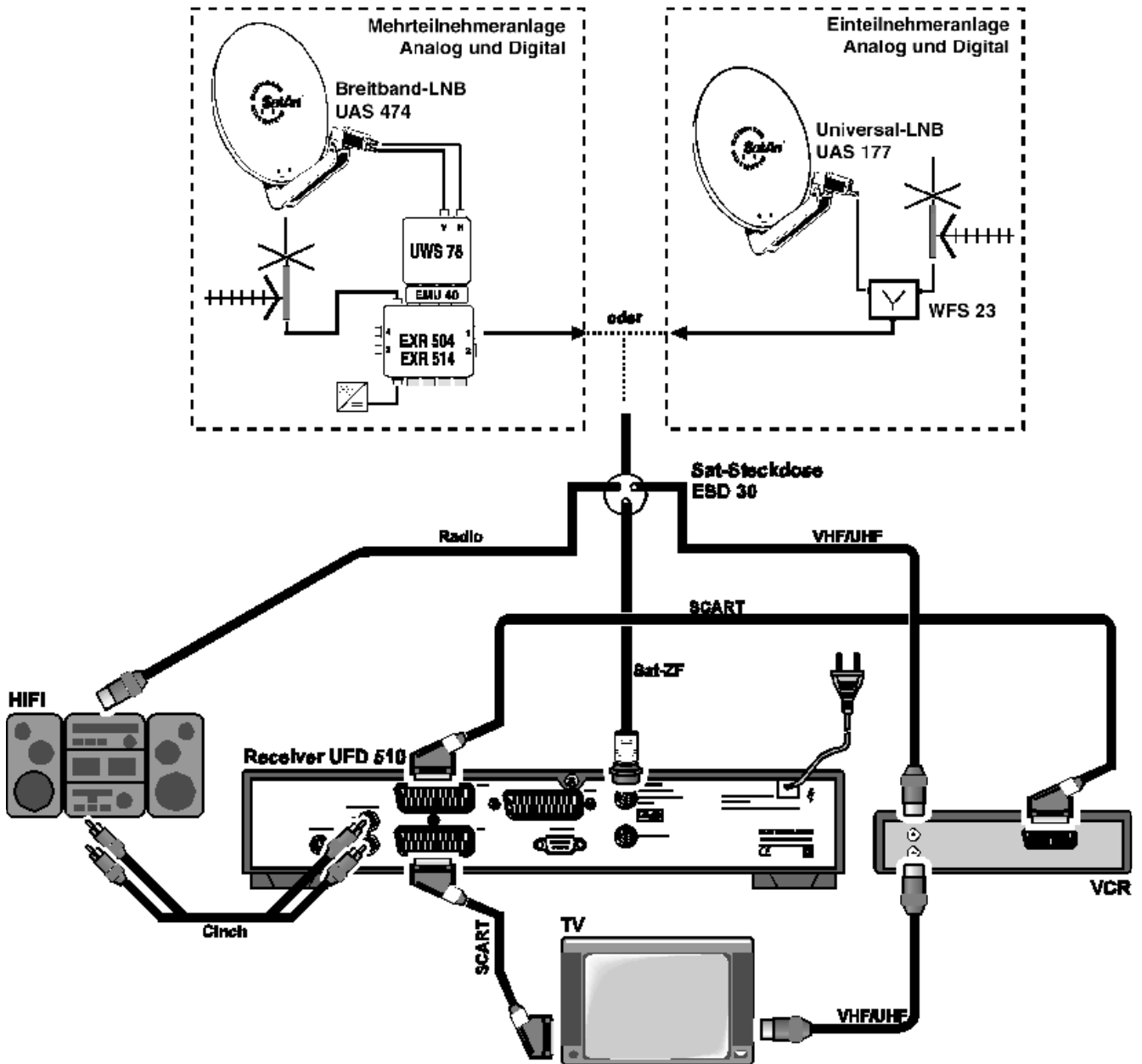
Scart socket pin assignments

Signal	Pin No.	TV	VCR	AUX
AUDIO Output Right	1	X	X	
AUDIO Input Right	2		X	X
AUDIO Output Left	3	X	X	
AUDIO Ground	4	X	X	X
BLUE Video Ground	5	X	X	X
AUDIO Input Left	6		X	X
BLUE Video	7	X	X	
Function switching	8	X	X	X
GREEN Video Ground	9	X	X	X
Commn. Data Line 2	10			
GREEN Video	11	X	X	
Commn. Data Line 1	12			
RED Video Ground	13	X	X	X
Commn. Data Ground	14			
RED Video	15	X	X	
Blanking Signal	16	X	X	
VIDEO Ground	17	X	X	X
Blanking Ground	18	X	X	X
VIDEO Output	19	X	X	
VIDEO Input	20		X	X
Common Ground	21	X	X	X

Connection examples

Connection scheme 1:

Reception of digital programmes from the ASTRA satellite system via a multi-subscriber system or via a single system



Connection of the UFD 510 digital receiver to a TV set, VCR and a hi-fi system for reception and recording of digital Sat TV- and radio programmes.

The link-up requires two Scart cables and one Cinch cable. If your TV set has stereo capability, the stereo sound can also be output via the TV set's stereo loudspeakers.

The TV set's UHF/VHF input is connected to the UHF/VHF output of the ESD 30 satellite socket via the video recorder's UHF/VHF output and input sockets. This connection allows reception of terrestrially broadcast TV programmes.

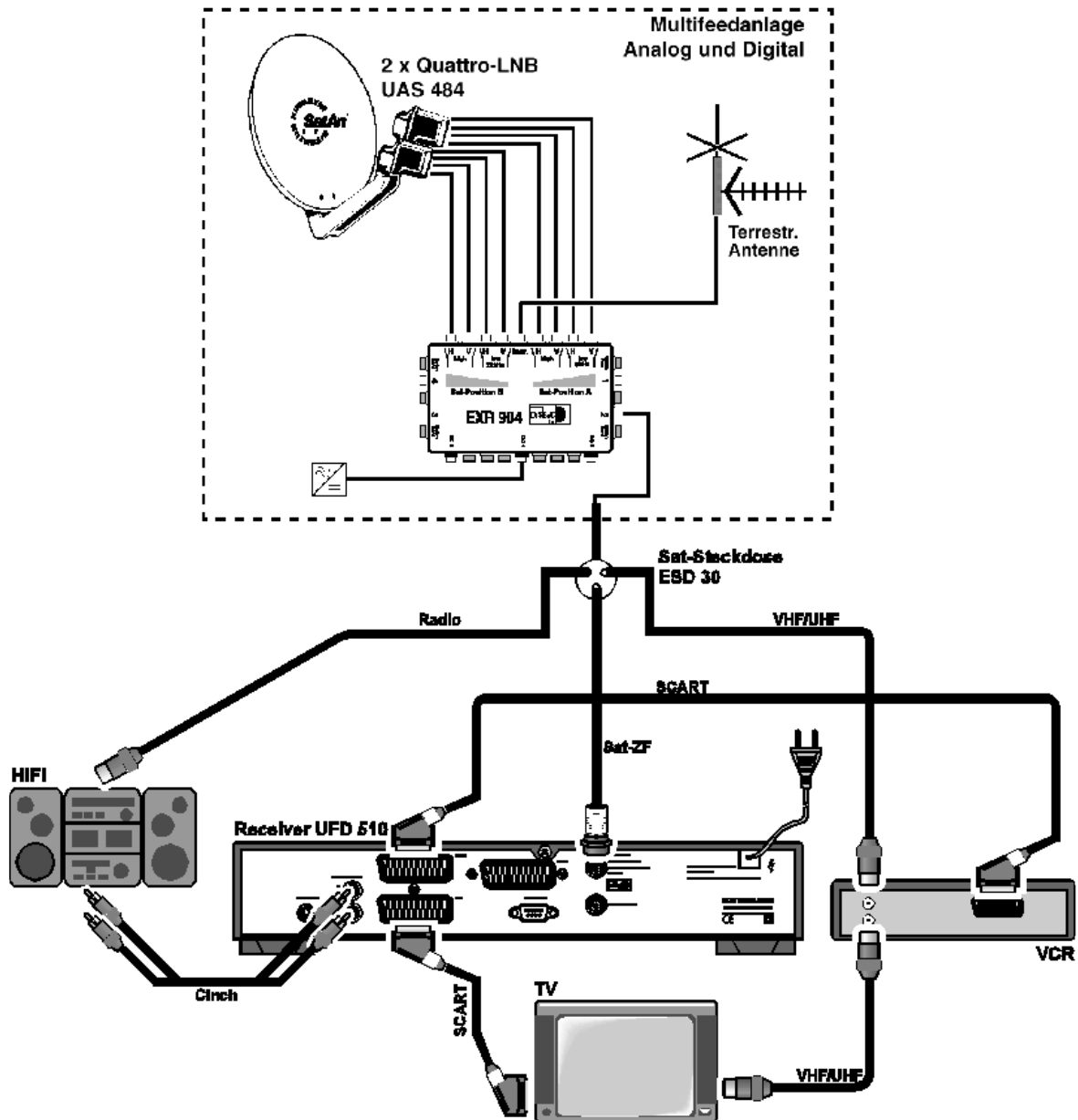
Connection of the hi-fi system's antenna input socket to the radio output of the ESD 30 satellite socket permits reception of terrestrially broadcast radio programmes.

Connection examples

Connection scheme 2:

Reception of digital programmes from the ASTRA and EUTELSAT satellite systems via a multi-feed antenna with two quattro feeder systems. The UFD 510 receiver supplies the required DiSEqC signals to the DiSEqC multi-switch EXR 904 for switching over both satellite positions.

The DiSEqC multi-switch EXR 904 allows four subscribers to be connected.



Connection of the UFD 510 digital receiver to a TV set, VCR and a hi-fi system for reception and recording of digital satellite TV- and radio programmes.

The link-up requires two Scart cables and one Cinch cable. If your TV set has stereo capability, the stereo sound can also be output via the TV set's stereo loudspeakers.

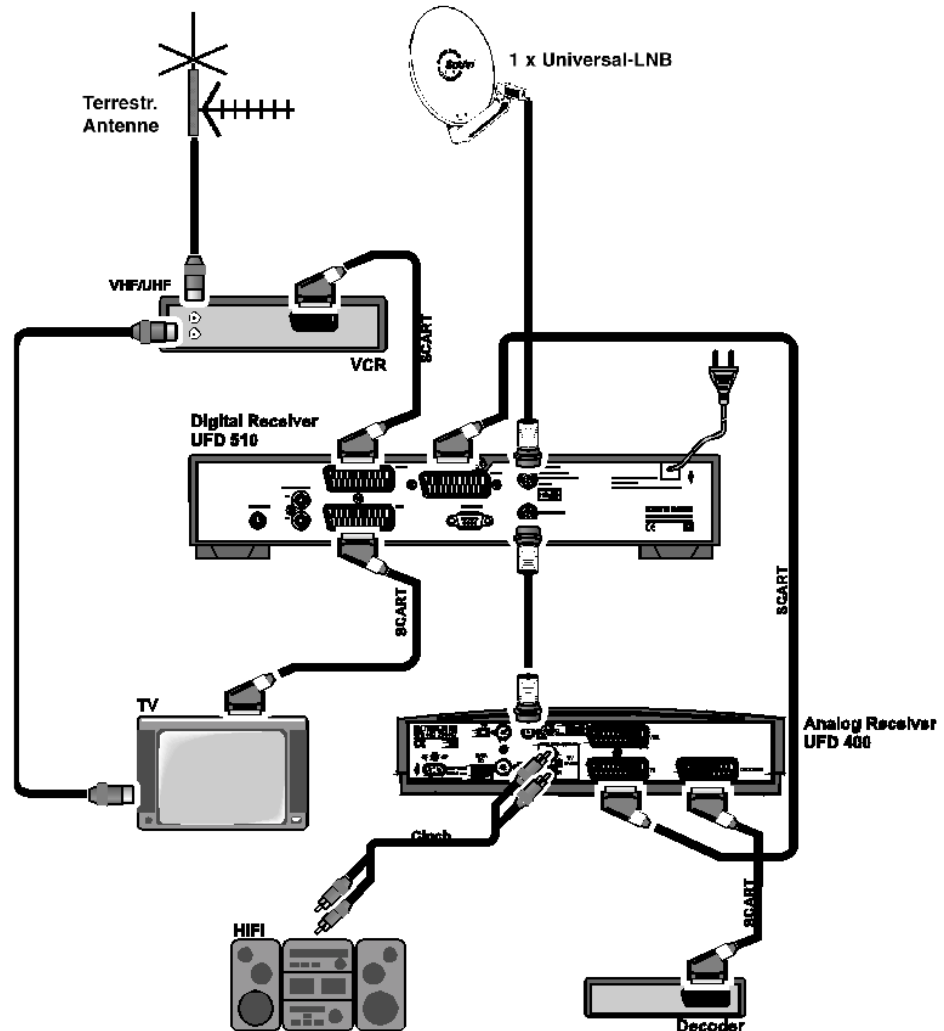
The TV set's UHF/VHF input is connected to the UHF/VHF output of the ESD 30 satellite socket via the video recorder's UHF/VHF output and input sockets. This connection allows reception of terrestrially broadcast TV programmes.

Connection of the hi-fi system's antenna input socket to the radio output of satellite socket ESD 30 permits reception of terrestrially broadcast radio programmes.

Connection examples

Connection scheme 3:

Connection of an analogue secondary receiver and analogue decoder for the further reception of encrypted analogue TV programmes.



This configuration allows reception and VCR recording of digital programmes via the UFD 510 receiver as well as analogue, encrypted and unencrypted programmes via the secondary receiver (UFD 400 in this example).

In this installation, connection of the UFD 510 digital receiver to the TV set is done via the UFD 510 Scart sockets TV, AUX and VCR and the TV Scart socket of the analogue secondary receiver.

The TV set's UHF/VHF input is connected to the terrestrial antenna via the video recorder's UHF/VHF output and input sockets. This connection allows reception of terrestrially broadcast TV programmes.

Service and dealer settings

If the installer changes the receiver's basic settings, we recommend that a record be kept of the new settings by marking the entries with a cross on this page.

In you should happen to change the basic settings by mistake, you can then call upon the reference data at any time.

OSD language

- German
- English

Picture format

- 4:3
- 16:9

LNB supply voltage

- Operation:
- ON
 - OFF
- Standby:
- ON
 - OFF

Satellite 1

Satellite: _____

LO1: 9750 _____

LO2: 10600 _____

OrbitPos. _____

Satellite 2

Satellite: _____

LO1: 9750 _____

LO1: 10600 _____

OrbitPos. _____

Satellite 3

Satellite: _____

LO1: 9750 _____

LO1: 10600 _____

OrbitPos. _____

DiSEqC menu

- 22 kHz: High/low PosA/B OFF
- Tone burst: High/low PosA/B Opt.A/B OFF
- DiSEqC ON OFF
- DiSEqC repeat ON OFF
- UFomini ON OFF
- Remote frequency 1608 MHz _____

Date

Signature

Glossary, abbreviations

ASIUS	Astra Service Information Update System
Audio output	Sound output on the receiver
AV programme channel	TV's preferred programme channel for Scart input
Bouquet	Package of programmes
Common Interface	Standard interface for card readers
Decoder	Decoding device for Pay-TV
DiSEqC	Control system between receiver and LNB, multi-switches
DVB	Digital Video Broadcasting
Eb/No [dB]	Power density per information unit
Eb/No ratio	Digital signal-to-noise ratio
EPG	Electronic Programme Guide
LED display	Display on receiver
LNB	Low Noise Block Converter
Mute	Sound muting
Navigator	Main menu
Online-Kanal	ARD's information channel
OpenTV	Operating system for digital satellite receivers
OSD	On Screen Display
PAL	Analogue TV standard
Pay-TV	Subscription TV (e.g. DF1, Premiere)
PCMCIA	Standard for internal decoder interface for Pay-TV
PIN	Personal Identification Number
Receiver	Receiver
RGB	Video signal composed of 3 discrete colour signals (Red, Green, Blue)
Satellite IF signal	Receiver input signal
Scart cable	21-way connecting cable
Standby	Standby
Surfer	Additional information displayed on-screen for current programme
S-VHS	Super Video Home System (video recorder standard)
Symbol rate	Transmission data rate of satellite signal
Timer function	Clock function for preprogrammed switch-on/off times
Transponder	Refer to lexicon
TV by genre	TV divided up by category
UFD	Receiver designation specific to Kathrein
VCR connection	Video recorder connection
Viterbi rate	Refer to lexicon

Glossary, abbreviations

DiSEqC

DiSEqC (**D**igital **S**atellite **E**quipment **C**ontrol) is a EUTELSAT-specified communications system between sat. receiver (master) and the peripheral sat. components (slaves) such as, for example, LNBS, multiswitches, rotatable antenna systems. DiSEqC is a single master / multi slave system, i.e. there is always only one master in the sat. system. All activities are always initiated by the master.

DiSEqC components

If DiSEqC switching matrices are connected in cascade, the master receiver must send out the DiSEqC signal repeatedly, in order that all DiSEqC multiswitches in the cascade receive their commands.

DiSEqC components (slaves) need to be downward compatible nowadays, i.e. they must also respond to the analogue switching criteria of receivers that are only equipped with H/V and 22 kHz control signals.

A DiSEqC switching matrix keeps working with analogue switching criteria until the DiSEqC command arrives from the master. After this all analogue switching criteria are ignored.

DVB MPEG-2

DVB is the abbreviation for **D**igital **V**ideo **B**roadcasting. DVB-S indicates the type of transmission. (S=Satellite). MPEG is an abbreviation for **M**oving **P**icture **E**xperts **G**roup, a working group that sets out internationally applicable standards for digital compression of video, along with audio. MPEG-2 has been elevated to the standard for compression of digital TV signals. MPEG-2 works up to a data rate of 100 Mbit/s.

Eb/No ratio

The Eb/No ratio is a measure for the signal-to-noise ratio of digital signals. This value is not identical to the S/N value known from analogue receiving technology. With Eb/No values below 5dB reception is generally no longer possible.

FEC

FEC is an abbreviation for **F**orward **E**rror **C**orrection. The FEC error rate corresponds to the Viterbi rate.

PID

The PID number (**P**acked **I**Dentification) is an identification number for video signals and audio signals in the digital data stream of DVB MPEG-2-signals. With the PID number, the receiver establishes a unique assignment of the video- and audio data transmission. The PID-PCR is the identification number for the synchronisation

signal. The PID-PCR is generally identical to the PID video. With programmes broadcast in several languages, the audio PID of another language of the TV broadcast can be assigned through manual entry. After entry of the PID, the digital receiver automatically fetches from the data stream the audio data identified through the PID number and assigns this to the video signal.

Programme package

A digital transponder's programme package mostly contains several TV and radio programmes. Every programme package has a fixed relationship to the transponder transmission frequency, polarisation (horizontal or vertical), to the symbol rate and to the Viterbi rate or error rate.

Symbol rate

The symbol rate describes the amount of data that is transmitted per second. It is measured in Msymbols/s and is equal to the number of symbols that arrive per second.

Transponder

A transponder is a transmitter in the satellite that transmits TV and radio signals on a high transmission frequency to the sat. receiving antennas. A satellite has a number of transponders.

Transponder, analogue

An analogue broadcasting transponder always transmits only one TV programme and possibly a number of radio programs on its transmission frequency..

Transponder, digital

A digital broadcasting transponder is able to transmit several TV and several radio programs simultaneously on its transmission frequency. When a program provider beams down several TV programs via a digital transponder, one then also talks of the program provider's "program package" The terms "Digital transponder" and "Program package" have the same meaning.

Video bit rate

The video bit rate describes the amount of digitalized video signal data that is transmitted per second.

Viterbi rate

The Viterbi rate (code rate, error rate) characterises the error protection used by the program provider. The DVB standard has earmarked the following values: 1/2 - 2/3 - 3/4 - 4/5 - 5/6 - 6/7 - 7/8..

KATHREIN

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