Receiver Programme 2013

Premium quality viewing and listening

Red Bull TV Servus TV HD
STARKE PARTNER
KATHREIN
Antennen · Electronic

KATHREIN
Antennen · Electronic

Kathrein is the world's oldest and largest manufacturer of antenna systems.
Over 94 years of experience and technical know-how make Kathrein a leading manufacturer in the digital satellite reception sector.

All Kathrein products, whether for professional or private use, feature first-rate product and reception quality. When it comes to digital receivers, Kathrein delivers quality you can rely on.

As intelligent control centres for digital reception, all receivers are optimally matched to the outdoor components in the reception system.

The wide range of products includes digital receivers for every transmission path, for both free-to-air and encrypted programmes – you will find the right one for every requirement.

The range features everything from a high-end hybrid receiver with Internet access to a HDTV satellite receiver for concealed installation in a motorhome or caravan up to a simple digital satellite, cable or DVB-T receiver to just watch TV without any unnecessary technical features.

All receivers fulfill the current technical standard and are easy to control using the supplied remote control.

Great importance has been attached to simple, convenient and logical operation, guaranteeing user-friendliness. Regardless of whether it's a high-end or standard unit, the operating philosophy is consistent throughout the entire product range.

Contents

UFSconnect

**Smarter than your TV set.
Kathrein's UFSconnect-receivers allow you
to go beyond the limits of previous individual
TV solutions:**

- During recording, the AutoTunerShare function
  automatically uses the tuner of another UFSconnect
  receiver integrated in the network. This allows
  unadulterated live TV entertainment even if the
  built-in tuner is currently blocked due to a
  programmed recording task

- Each UFSconnect receiver allows you to access all
  your TV recordings, regardless of where you have
  made them

- Enjoy satellite television in habitual quality, even in
  rooms in which there is no Sat cabling

- With the "UFScontrol" app you can watch live TV on
  your tablet PC/smartphone, program recordings or
  easily control your receiver in your home network

- Using the Wake on LAN function (WOL), any device
  integrated in the home network (receiver, tablet PC,
  smartphone) can wake up a UFSconnect receiver
  from stand-by mode

Bedroom

UFSconnect
Hybrid receiver

Internet

UFS CONNECT

Multi-switch

Nursery

Living room

UFSconnect
Hybrid receiver

UFS 924
TWIN hard disk receiver

Switch

Smartphone/Tablet
App UFScontrol

Modem/Router

Notebook/PC
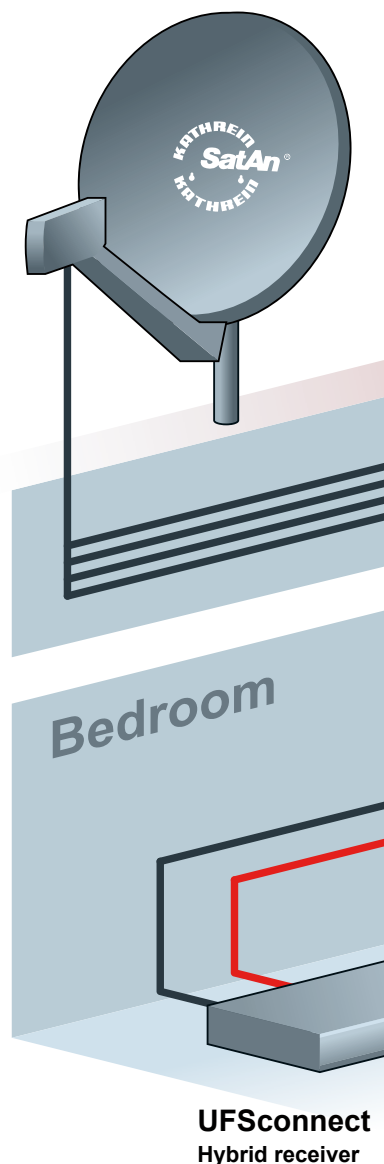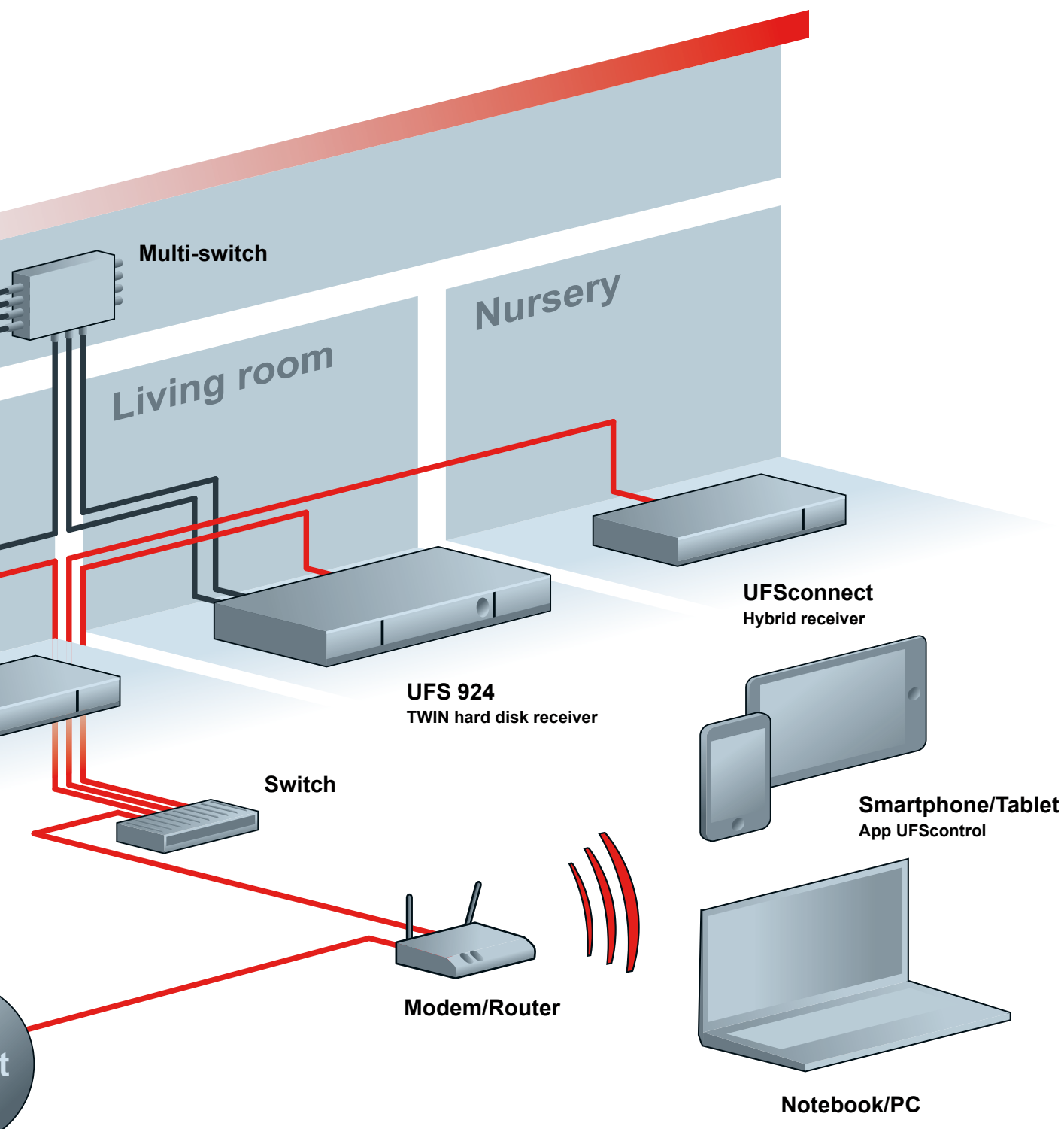
Red Bull Smart-TV

Red Bull TV portal & ServusTV portal

provides Internet access to the Red Bull Smart-TV
portal with the following additional features:

- **Red Bull TV**
  streaming of Red Bull TV content
  directly to the receiver

- **Explore the latest arrivals**
  Push Vod Service – the receiver saves HD
  or 3D videos received over satellite on the
  internal hard disk drive for play-out
  afterwards

  New and exclusively on Kathrein receivers:
  360°-videos – move as you please in the video

- **Red Bull channels on YouTube™**
  Direct access to Red Bull YouTube™
  channels

- **ServusTV**
  Direct streaming of ServusTV content
  to the receiver

- **Mediathek (Media centre)**
  Video app with ServusTV content

- **Bilderwelten (Image gallery)**
  Streaming of ServusTV Vogelfrei
  to your receiver

- **Ikono TV**
  Displays artwork from different periods in HD
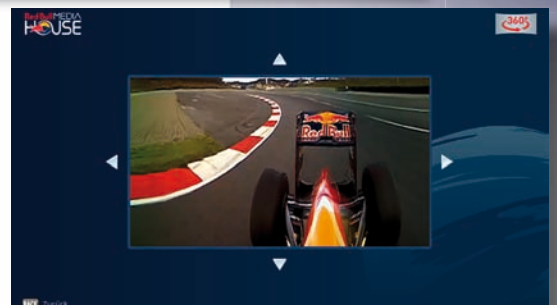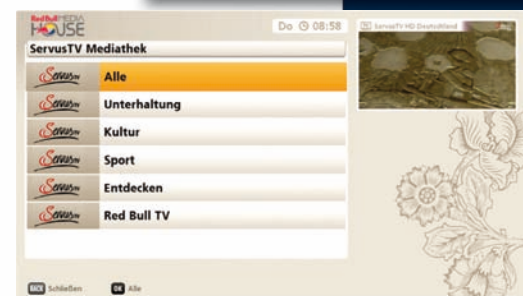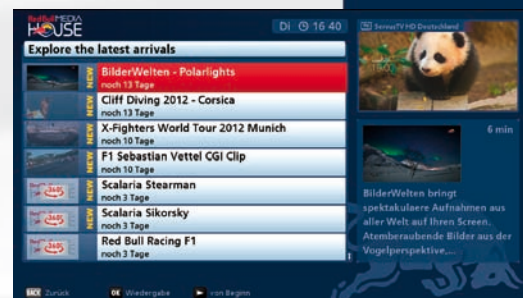
Hybrid Broadcast Broadband TV – HbbTV

Hybrid Broadcast Broadband TV – Smart-TV

Hybrid Broadcast Broadband TV or Smart-TV describes the fusion between standard television and the world of Internet.
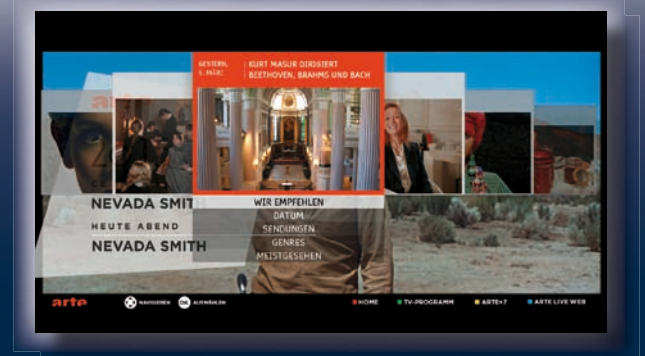
HbbTV

The HbbTV standard makes it possible to access additional Internet content provided by the broadcaster of a programme being viewed (Red Button function). Videotext, media centres or detailed information on the current programme can thereby be provided to users. Since these extra services are especially tailored to the display on the TV set and to the navigation using the receiver remote control, users can count on the convenient, user-friendly operation characteristic of Kathrein products.

Kathrein Receivers in Home Networks

YouTube™

Kathrein receivers with a network interface bring YouTube™ to your TV set. The YouTube™ navigation is perfectly adapted to use over the receiver remote control. One has the possibility to create own favourites lists, to subscribe to special channels or to filter according to certain criteria (e.g. best rating, most popular videos ...). The Premium- *tvtv*-EPG also allows one to directly search for information on the selected programme/film on YouTube™.
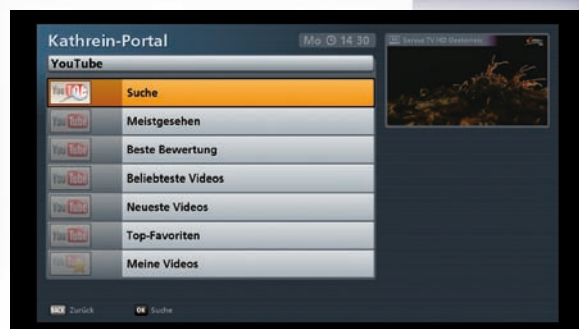
Internet-Radio – SHOUTcast™ radio

Using the network connection, Kathrein receivers can access and receive Internet radio stations. In order to keep operation and navigation as simple and straightforward as possible, a service was implemented with SHOUTcast™ radio allowing radio stations to be sorted by genre and enabling users to create their own favourite lists.
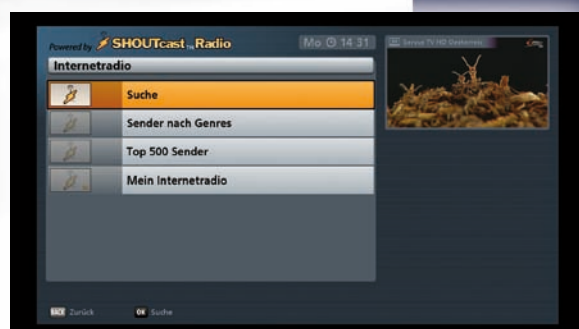
Network Interface

The Kathrein network interface is the easy, convenient solution to get the receiver Premium- *tvtv*-EPG on a PC, to plan and manage receiver recordings on a PC, to copy receiver recordings to the PC or to program the receiver for remote access. No additional programme is required as access is exclusively achieved by entering the IP address in a standard Internet browser (e.g. Microsoft Internet Explorer, Mozilla Firefox). If an NAS hard disk drive is integrated into the home network, the receiver can be configured over the Kathrein network interface to allow recordings to be saved directly to the NAS hard disk drive. If the NAS hard disk drive features the "Wake on LAN" function, the receiver will wake it up when recording is started and then switch it back to stand-by as soon as recording is finished.
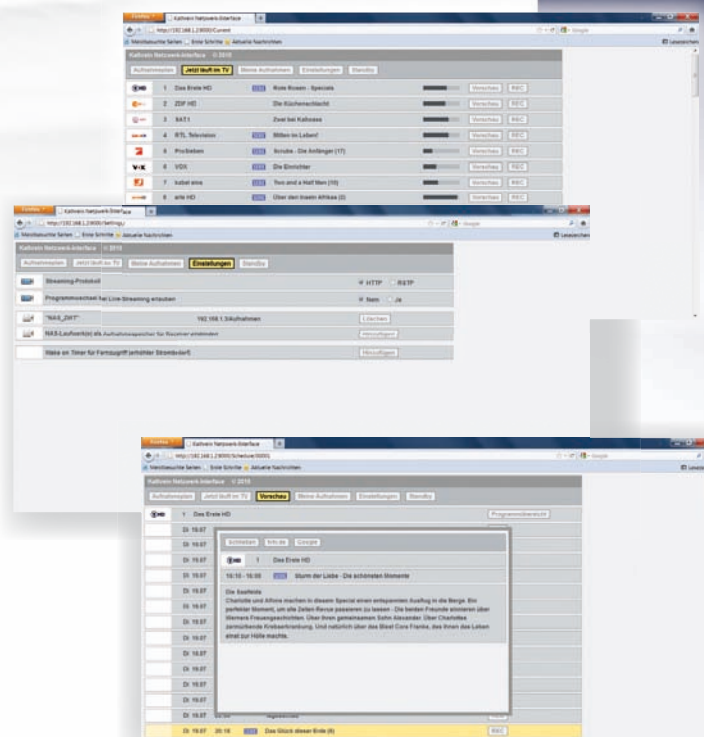
Smartphone app "UFScontrol"

With the free app "UFScontrol" Kathrein also enables remote control of their network-capable receivers over iOS (iPad, iPhone, iPod touch) and Android devices. Due to 1:1 reproduction of the original remote control, the app offers complete remote control of Kathrein receivers. Just like on the network interface, the "UFScontrol" allows the Premium - tvtv - EPG to be viewed on the smartphone, enabling planning and administration of receiver recordings. If the router is also configured for external access (e.g. DynDNS), one can also activate the Kathrein receiver from outside of the home network.

UPnP server

The UPnP server function on a Kathrein receiver makes it possible to transmit recordings saved on the receiver hard disk drive and even live TV to other devices in the home network (e.g. PC or another network-capable Kathrein receiver). If the receiver has a twin tuner, the function allows one to view different live TV programmes in two different rooms, even though only one satellite receiver is connected to the reception system.
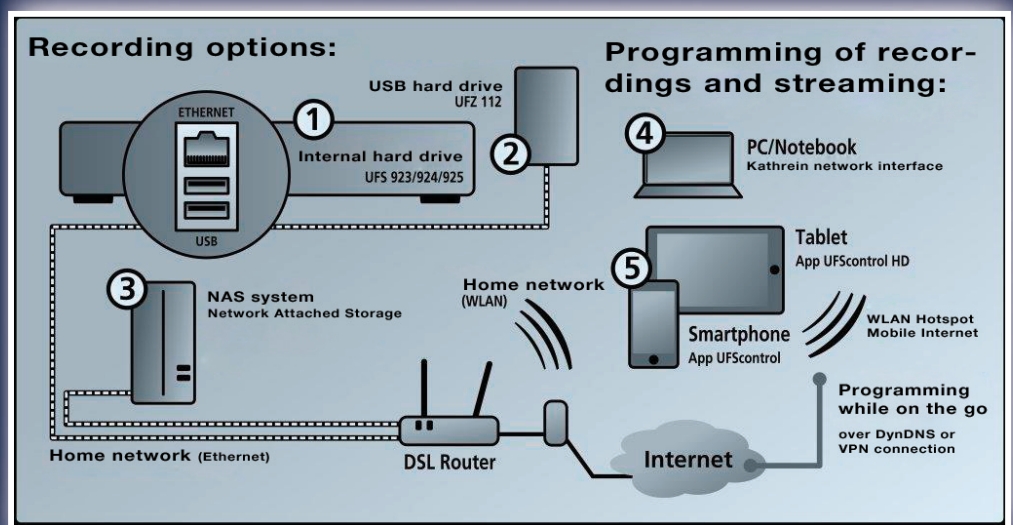
Integrating the receiver in a home network

Kathrein Receivers in Home Networks

UPnP client

In its function as UPnP client, a Kathrein receiver can access audio/video files and pictures (e.g. XviD/mp3/jpg) stored on other home network devices (e.g. NAS server, PC ...) and play these out on a TV set

Wake on LAN

Due to Wake on LAN, the receiver can be activated by any other unit connected to the home network when in stand-by mode. This allows it to be accessed, for example, over the smartphone app "UFScontrol" or the network interface, both in operational and in stand-by mode.

WLAN - wireless network connection

If the receiver does not have access to a network port, the connection can be made using the WLAN/USB adapter UFZ 130. See page 44 for more detailed information.
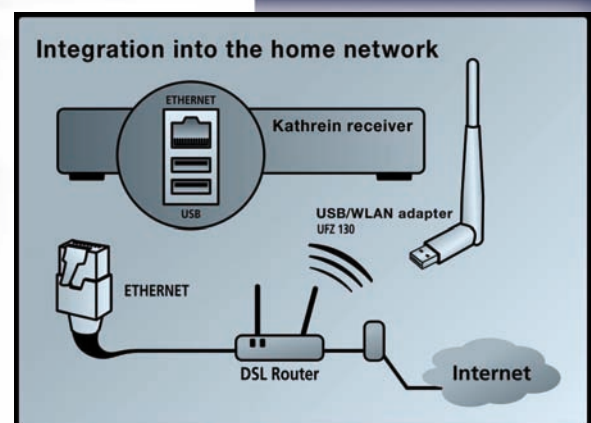
What is HD+?

HD+

With the HD+ Smart-TV receiver you can watch the 15 most important HD broad-casters via satellite and enjoy the excellent audio and video quality. The best part: Each HD+ SmartTV Receiver includes an HD+ card valid for 12 months. After it has expired the HD+ card can be renewed in a 12-month package.
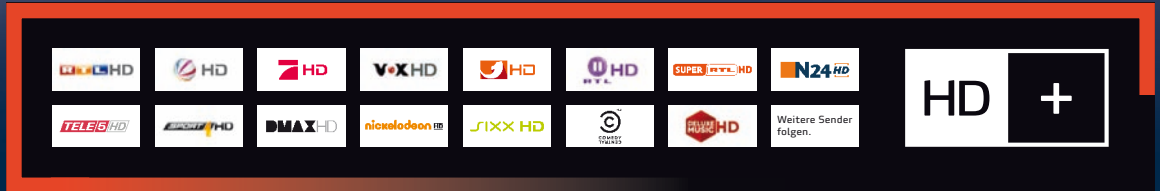
HD+ SmartTV

The HD+ Smart-TV receiver not only makes TV viewing pin sharp but also interactive. With **over 100** apps from different categories such as sports, enter-tainment or news, your TV set becomes a multi-me-dia all-rounder which can be easily controlled using the receiver remote control.

HD+ RePlay

A huge bonus: the HD+ RePlay function in the HD+ Smart-TV portal. This function allows the private broadcasters' media centres featuring programme highlights from the previous 7 days to be called up directly on your TV set.

What does HD+ RePlay cost

The HD+ Smart-TV receiver **includes a free three-month HD+ RePlay subscription** which can then be renewed for another three months for 15 € (offer only valid in Germany).
By the way: Clients who renew HD+ RePlay **by 31st December 2013 get an extra six months for free!**

HD+ Receivers can only be delivered to customers in Germany

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About the Most Important Receiver Functions

Premium-tvtv-EPG/gracenote-EPG · gracenote.

The premium **tvtv**-EPG is a professionally edited programme guide which delivers all EPG information free of charge for approx. 160 programmes up to 14 days in advance. Not only is it a well-structured electronic TV guide, but also offers a facility to take programmes from the respective EPG and include them in the timer. In addition, it is possible to sort programme information according to categories and to create and administrate one's own programme tips. What's more, the premium-**tvtv**-EPG also features an extensive search function which enables one, for example, to search for reruns, actors or key words. In future the name **tvtv** will be replaced by "gracenote"; however, the programme guide's wide range of functions will remain the same.
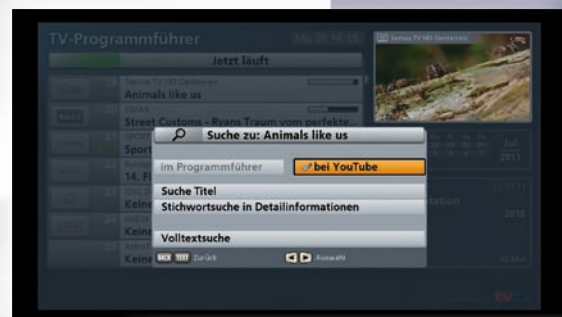
Kathrein easy-use EPG

The Kathrein easy-use EPG is not only a well-structured electronic TV guide, but also offers a facility to take programmes from the respective EPG and include them in the timer. In addition, it is possible to sort programme information according to categories. The Kathrein easy-use EPG features an extensive search function which enables one, for example, to search for reruns, actors or key words. To ensure that the EPG details are always up-to-date, the data of the first 25 programmes and those of the first favourite list are automatically updated every night.

Kathrein EPG

The standard Kathrein EPG also provides clearly-arranged information on TV programmes. Programmes can be taken from the respective views and saved to a timer. The Kathrein EPG not only delivers a programme preview but also offers detailed programme information on running programmes and future ones, up to seven days in advance.

Twin tuner

Twin tuner receivers are equipped with two independent satellite HDTV reception units (tuners). They allow one to record a second programme without interruption of the one being viewed. Receivers featuring an internal hard disk drive allow two simultaneous recordings to be made.
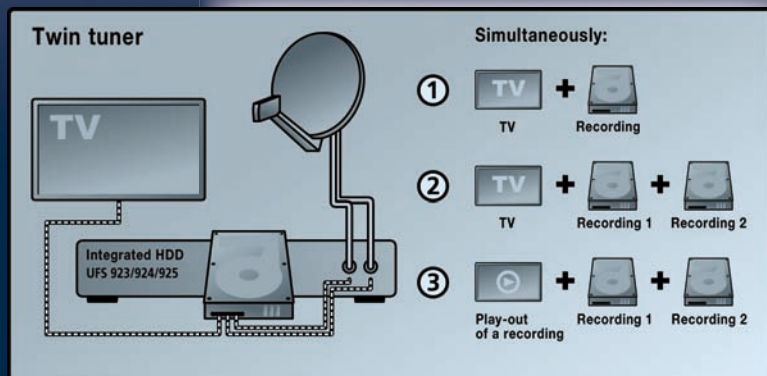
TV control (TV on/off over HDMI)

If the receiver is connected to the receiver via HDMI cable, TV control will make the TV remote control superfluous to a great extent. TV control is based on the CEC protocol, whereby the TV set is automatically switched on and off as soon as the receiver is switched on or off. Furthermore, the function also makes sure that the HDMI port is automatically chosen as the input source.
This function must be supported by the TV set.

Radiotext

Receivers with this function display radiotext in the alphanumeric display when in radio mode. Radiotext is additional data provided by radio broadcasters which give further information on the music title/artist played at the time, traffic updates, news or weather reports. These reports are displayed as tickers on the display and additionally on the TV screen if required.

About the Most Important Receiver Functions

Timeshift TV

If the receiver is equipped with an integrated hard disk drive or if the receiver can be connected to an external hard disk drive, all these Kathrein HDTV receivers allow time-shifted viewing. If you press the Pause button on the remote control, the current broadcast being viewed is paused and at the same time recorded as it continues in the background. If you press the Play button, the broadcast will continue where it was paused.

Permanent timeshift

As soon as you switch to a programme, the receiver will automatically and simultaneously record the programme being viewed to your hard disk drive. This will allow you to "rewind" the film/show, for example, to view a scene you missed or to later save the programme as a recording to your hard disk drive (UFS 913, UFS 922, UFS 923, UFS 924, UFS 925, UFSconnect 906).

Recording/timeshift on an external hard disk drive – PVRready

The USB port on the receiver rear panel allows connection of external storage media (USB stick/hard disk drive) for the recording of TV and radio programmes, making your receiver a digital video recorder.

Software and programme list updates

Kathrein updates (software and programme lists) are usually provided in two different ways: via satellite and on the website "www.kathrein.de" (Service →Software and Downloads →Receivers).

On "www.kathrein.de", you can get information on the latest software and programme lists available for your receiver, at any time. You will also be able to view a list of all the differences to the older version.

Update options

There are several ways to update your Kathrein receiver. These options can differ from receiver to receiver. The following update options are available for the receivers presented in this brochure:

• Update via satellite (for all satellite receivers, no PC with Internet access required)

• Update via PVR manager (software must first be downloaded and installed to a PC/laptop from "www.kathrein.de")
• Update via USB stick (software must first be downloaded to a PC/laptop from "www.kathrein.de")

UFS 906, 923, 924, 925, 940, 946	Updates can be performed over all variants
UFS 80, 641, 651	Update over satellite or own PC programme (UFS 80 and USB)
UFT 676, UFC 662	Update over own PC programme
UFS 932	Updates over satellite

Special features of the receivers UFS 906, 946, 923, 924, 925, 940:

After being switched into stand-by mode, the receivers will automatically check if new software and/or a programme list is available to be downloaded via satellite. If a new software/ programme list is available, the receivers will display the following message the next time they are started as seen here in the UFS 923:

! Neue Software verfügbar

Information UFS 923 vom xx.xx.xxxx

Sehr geehrter Kunde,
es ist eine neue Software V x.xx verfügbar.

xxx

Weitere Informationen finden Sie auf
www.kathrein.de

BACK Cancel   OK Update Software

! Neue Programmliste verfügbar

Eine Aktualisierung für die Programm-
liste ist verfügbar. Die Sortierung Ihrer
Programmliste bleibt erhalten.

BACK Abbrechen   OK Programmliste aktualisieren

Kathrein offers a special service for software updates. You can register for an infoservice newsletter on "www.kathrein.de" (Service → Software and Downloads → Receivers) and automatically receive an e-mail as soon as new software is available for your receiver.

SCR single-cable system (EN 50494)

Not only are all Kathrein satellite receivers equipped with the technically well-proven DiSEqC™ system, but they also feature the control signals for the SCR single-cable system. The SCR single-cable system is designed to distribute digital Sat-IF and terrestrial signals to up to eight receivers over one single cable.

Twin Smart-TV Receiver
UFS 924/1000 GB/CI+ and UFS 92

Red Bull TV Portal & ServusTV Portal

The premium Smart-TV receiver UFS 924 unites standard TV reception over satellite with the advantages of first-class additional functions from the Internet. The unit is equipped with two independent tuners as well as an integrated hard disk drive with a 500 Gbyte or 1,000 Gbyte memory capacity. Depending on the broadcaster's data rate, this feature allows one to record up to this feature allows one to record up to 600 hours of standard-TV and radio broadcasts, as well as 200 hours of HDTV broadcasts.

Special features:

- UFSconnect (easy video sharing, auto tuner sharing, shared recording list ...)
- SAT-IP client functionality
- HbbTV (additional information and services from the Internet)
- Red Bull Smart-TV portal, including 360° videos
- Full graphic display 256 x 64 pixels
- Two independent Sat HDTV tuners (recording and live TV or two simultaneous recordings)
- Integrated 1,000 (alternatively 500) Gbyte hard disk drive for up to 600 hours of standard TV recordings or 200 hours of HDTV recordings
- Network interface with streaming function
- UFScontrol app for iOS (iPad/iPhone) and Android
- Premium gracenote EPG for up to 14 days
- TV control – TV can be switched on/off through HDMI connection
- WakeOnLAN - the receiver can be switched on by other devices connected to the home network

Stand-by power drain < 0.5 Watt

Internal hard disk

UFS connect

Red Bull TV   ServusTV HD
STARKE PARTNER
KATHREIN
Antennen · Electronic

Sky programmes can be received over the Sky CI Plus module *

*) Sky reception with the Sky CI Plus module is only possible via satellite and with a valid Sky subscription

READY FOR HD+

Sie benötigen nur ein HD+ Modul inkl. HD+ Karte.

CI+

YouTube READY

Powered by SHOUTcast Radio
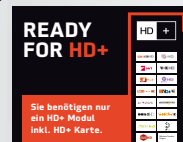
24/500 GB/CI+

Additional features:

- Common Interface for two CI+/CI modules with dual decryption
- Reception of digital satellite TV and radio programmes in DVB-S2 (HDTV) and DVB-S transmission standards
- Recording of radio broadcasts on the integrated hard disk drive
- Video decoding of MPEG-2 and MPEG-4/H.264 signals (HDTV)
- Recording of radio broadcasts on the integrated 1,000 (or 500) Gbyte hard disk drive
- Timeshift function
- Permanent timeshift (ongoing recording of the selected programme)
- Extended EPG functions: Sorting according to categories, extensive search function, creation and administration of programme tips
- Displays broadcaster logos in various on-screen displays
- Any number of timer recordings can be programmed (once, daily, weekly, user-defined and serial timers)
- Eight favourite programme lists each for TV and radio
- Recording list with chapter menu and pictures
- Multimedia archive for pictures and MP3 play-out
- Integrated UPnP server/client
- Internet radio (SHOUTcast™ radio)
- YouTube™ videos
- Guided first installation
- Pre-programmed programme list – immediate viewing without having to perform a programme scan
- Automatic download of software and programme lists
- Upscaler to convert PAL signals to 576p, 720p, 1080i and 1080p
- Language selection for programmes broadcast in several languages
- Allows software updates (operational software and programme list separately) via satellite and USB stick
- On-screen display (OSD) in ten languages (DE, GB, FR, IT, ES, CZ, NL, PL, TR, RU)
- DiSEqC™1.0/1.1/1.2, USALS and SCR single-cable system control signals (EN 50494)
- 4,000 programme memory positions
- Main switch

Connections:

- 4 x F-type connector (2 x input, 2 x output)
- 1 x Ethernet 10/100 Mbit/s – RJ45
- 3 x USB 2.0 (1 x front panel, 2 x rear panel)
- 2 x CI+/CI slot
- 1 x SD card reader
- 1 x HDMI out
- 1 x YPbPr component output
- 2 x SCART (TV/VCR)
- 1 x analogue Video (CVBS) – Cinch
- 2 x analogue Audio (l/r) – Cinch
- 1 x digital Audio S/PDIF optical
- 1 x digital Audio S/PDIF electrical
- 1 x Power connection 230 V/50 Hz

Delivery scope:

- Infra-red remote control
- Batteries
- HDMI cable
- User manual
- Safety notes
- Power cable
- Loop-through cable

The receivers are available in silver and black.

Technical data subject to change.

Smart-TV Receiver UFSconnect 906

Red Bull TV Portal & ServusTV Portal

In conjunction with other network-capable Kathrein receivers, the scope of functions of the UFSconnect 906 can be substantially upgraded.the tuner on the device is being used at the time for recording, the

UFSconnect 906 automatically accesses a Kathrein receiver integrated in the network, using it to receive additional live programmes.

Special features:

- UFSconnect (easy video sharing, auto tuner sharing, shared recording list ...)
- SAT-IP client functionality
- HbbTV (additional information and services from the Internet)
- Red Bull Smart-TV portal
- WakeOnLAN – the receiver can be switched on by other devices connected to the home network
- Option to record TV and radio broadcasts on an external USB hard disk *)
- Network interface with streaming function
- UFScontrol app for iOS (iPad/iPhone) and Android
- Premium gracenote EPG for up to 14 days
- TV control – TV can be switched on/off through HDMI connection

Stand-by power drain < 0.5 Watt

Recording/timeshift on external hard disk

UFS CONNECT

Red Bull TV · ServusTV HD
STARKE PARTNER
KATHREIN
Antennen · Electronic

READY FOR HD+ HD+

Sie benötigen nur ein HD+ Modul inkl. HD+ Karte.

Powered by SHOUTcast Radio

You Tube READY

Additional features:

- Common Interface for a CI+/CI module
- Reception of digital satellite TV and radio programmes in DVB-S2 (HDTV) and DVB-S transmission standards
- Video decoding of MPEG-2 and MPEG-4/H.264 signals (HDTV)
- Timeshift function using an external USB hard disk *)
- Permanent timeshift (ongoing recording of the selected programme)
- Extended EPG functions: Sorting according to categories, extensive search function, creation and administration of programme tips
- Displays broadcaster logos in various on-screen displays
- Any number of timer recordings can be programmed (once, daily, weekly, user-defined and serial timers)
- Eight favourite programme lists each for TV and radio
- Recording list with chapter menu and pictures
- Multimedia archive for pictures and MP3 play-out
- Integrated UPnP server/client
- Internet radio (SHOUTcast™ radio)
- YouTube™ videos
- Guided first installation
- Pre-programmed programme list – immediate viewing without having to perform a programme scan
- Automatic download of software and programme lists
- Upscaler converts PAL signal to 576p, 720p, 1080i, 1080p as well as automatically
- Language selection for programmes broadcast in several languages
- Allows software updates (operational software and programme list separately) via satellite and USB stick
- On-screen display (OSD) in ten languages (D, GB, F, I, E, CZ, NL, PL, TR, RUS)
- DiSEqC™1.0/1.1/1.2, USALS and SCR single-cable system control signals (EN 50494)
- 5,000 programme memory positions
- Mains switch

Connections:

- 1 × F-type connector (1 x input)
- 1 × Ethernet 10/100 Mbit/s – RJ 45
- 2 × USB 2.0 (2 x rear panel)
- 1 × CI+/CI slot
- 1 × HDMI out
- 1 × analogue Video (CVBS) – Cinch
- 2 × analogue Audio (l/r) – Cinch
- 1 × digital Audio S/PDIF optical
- 1 × digital Audio S/PDIF electrical
- 1 × Power connection 12 V

Delivery scope:

- Infra-red remote control
- Batteries
- HDMI cable
- User manual
- Safety notes
- Power supply unit 230 V/12 V

The receivers are available in silver and black.

* Only with hard disk drives from Kathrein's programme range or with suitable hard disk drives (www.kathrein.de ➞ Service ➞ FAQ)

Technical data subject to change

Hybrid Twin HDTV Satellite Receiv
UFS 925/1000 GB/HD+ and UFS 9

Hybrid receiver - unites TV and Internet

The hybrid receiver UFS 925/HD+ unites conventional satellite TV with the world of Internet. The unit is equipped with two independent tuners as well as an integrated hard disk drive with a 500/1,000 Gbyte memory capacity. In spite of the wide range of functions and the fusion of TV and Internet, the UFS 925/HD+ is easy to operate and is characterised by a high degree of convenience.

Special features:

- HbbTV (additional information and services from the Internet)
- HD+ SmartTV/HD+ RePlay
- Full graphic display 256 x 64 pixels
- Two independent Sat HDTV tuners (recording and live TV or two simultaneous recordings)
- Integrated 1,000 Gbyte (or 500) hard disk drive for up to 600 (300) hours of standard TV or 200 (100) hours of HDTV recordings
- HD+ incl. an HD+ card valid for services for one year
- Common Interface for two CI+/CI modules with dual decryption
- Network interface with streaming function
- UFScontrol app for iOS (iPad/iPhone) and Android
- Premium *tvtv* EPG for up to 14 days
- TV control – TV can be switched on/off through HDMI connection

Stand-by power drain < 0.5 Watt

Internal hard disk

Premium-*tvtv*-EPG

Sky programmes can be received over the Sky CI Plus module *
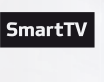
*) Sky reception with the Sky CI Plus module is only possible via satellite and with a valid Sky subscription

Additional features:

- Reception of digital satellite TV and radio programmes in DVB-S2 (HDTV)
  and DVB-S transmission standards
- Video decoding of MPEG-2 and MPEG-4/H.264 signals (HDTV)
- Recording of radio broadcasts on the integrated 1,000 (or 500) Gbyte hard disk
- Timeshift function
- Permanent timeshift (ongoing recording of the selected programme)
- Extended EPG functions: Sorting according to categories, extensive search function,
  creation and administration of programme tips
- Displays broadcaster logos in various on-screen displays
- Any number of timer recordings can be programmed
  (once, daily, weekly, user-defined and serial timers)
- Eight favourite programme lists each for TV and radio
- Recording list with chapter menu and pictures
- Integrated UPnP server/client
- Multimedia archive for pictures and MP3 play-out
- Internet radio (SHOUTcast™Radio)
- YouTube™ videos
- Guided first installation
- Pre-programmed programme list – immediate viewing without having to perform a programme scan
- Automatic download of software and programme lists
- Upscaler to convert PAL signals to 576p, 720p, 1080i and 1080p
- Language selection for programmes broadcast in several languages
- Allows software updates (operational software and programme list separately)
  via satellite and USB stick
- On-screen display (OSD) in ten languages (DE, GB, FR, IT, ES, CZ, NL, PL, TR, RU)
- DiSEqC™1.0/1.1/1.2, USALS and SCR single-cable system control signals (EN 50494)
- 5,000 programme memory positions
- Mains switch

Connections:

- 2 x F-type sockets (2 x input, internal loop-through)
- 1 x Ethernet 10/100 Mbit/s – RJ45
- 3 x USB 2.0 (1 x front panel, 2 x rear panel)
- 2 x CI+/CI slot
- 1 x SD card reader
- 1 x Smart card reader
- 1 x HDMI out
- 1 x YPbPr component output
- 2 x SCART (TV/VCR – RGB and S-Video)
- 1 x analogue Video (CVBS) – Cinch
- 2 x analogue Audio (l/r) – Cinch
- 1 x digital Audio S/PDIF optical
- 1 x digital Audio S/PDIF electrical
- 1 x power connection 230 V/50 Hz

Delivery scope:

- Infra-red remote control
- Batteries
- HD+ card
- HDMI cable
- User manual
- Safety notes
- Power cable

The receivers are available in silver and black.

Technical data subject to change.

**HD+ Receivers can only be
delivered to customers
in Germany**

Hybrid Twin HDTV Satellite Receiv
UFS 935/HD+

Hybrid receiver – unites TV and Internet

The hybrid receiver UFS 935/HD+ unites conventional satellite TV with the world of Internet. With two independent HDTV tuners, 1 x CI+, including an HD+ card valid for services for one year.

Special features:

- HbbTV (additional information and services from the Internet)
- HD+ SmartTV/HD+ RePlay
- Two independent Sat HDTV tuners (simultaneous recording and live TV)
- Common Interface for a CI+/CI module
- Premium *tvtv* EPG for up to 14 days
- Network interface with streaming function
- UFScontrol app for iOS (iPad/iPhone) and Android
- TV control – TV can be switched on/off through HDMI connection

Stand-by power drain < 0.5 Watt

Recording/timeshift on external hard disk

Premium-*tvtv*-EPG

Sky programmes can be received over the Sky CI Plus module *

*) Sky reception with the Sky CI Plus module is only possible via satellite and with a valid Sky subscription

YouTube READY HD + SmartTV

Powered by SHOUTcast Radio CI+

Additional features:

- Reception of digital satellite TV and radio programmes in DVB-S2 (HDTV) and DVB-S transmission standards
- Video decoding of MPEG-2 and MPEG-4/H.264 signals (HDTV)
- Option to record TV and radio broadcasts on an external USB hard disk *)
- Timeshift function using an external USB hard disk *)
- Permanent timeshift (ongoing recording of the selected programme)
- Extended EPG functions: Sorting according to categories, extensive search function, creation and administration of programme tips
- Displays broadcaster logos in various on-screen displays
- Any number of timer recordings can be programmed once, daily, weekly, user-defined and serial timers)
- Eight favourite programme lists each for TV and radio
- Recording list with chapter menu and pictures
- Integrated UPnP server/client
- Multimedia archive for pictures and MP3 play-out
- Internet radio (SHOUTcast™-Radio)
- YouTube™ videos
- Guided first installation
- Pre-programmed programme list - immediate viewing without having to perform a programme scan
- Automatic download of software and programme lists
- Upscaler to convert PAL signals to 576p, 720p, 1080i and 1080p
- Language selection for programmes broadcast in several languages
- Allows software updates (operational software and programme list separately) via satellite and USB stick
- On-screen display (OSD) in ten languages (DE, GB, FR, IT, ES, CZ, NL, PL, TR, RU)
- DiSEqC™1.0/1.1/1.2, USALS and SCR single-cable system control signals (EN 50494)
- 5,000 programme memory positions
- 4-digit display ports
- Mains switch

Connections:

- 2 x F-type sockets (2 x input, internal loop-through)
- 1 x Ethernet 10/100 Mbit/s – RJ45
- 1 x USB 2.0 (rear panel)
- 1 x CI+/CI slot
- 1 x Smart card reader
- 1 x HDMI out
- 1 x YPbPr component output
- 1 x SCART
- 1 x S-Video (Mini DIN)
- 2 x analogue Audio (l/r) – Cinch
- 1 x digital Audio S/PDIF optical
- 1 x digital Audio S/PDIF electrical
- 1 x power connection 12 V

Delivery scope:

- Infra-red remote control
- Batteries
- HD+ card
- HDMI cable
- Power supply unit 230 V/12 V
- User manual
- Safety notes

The receiver is available in black.

* Only with hard disk drives from Kathrein's programme range or with suitable hard disk drives (www.kathrein.de ➔ Service ➔ FAQ)

Technical data subject to change

HD+ Receivers can only be delivered to customers in Germany

Hybrid Twin HDTV Satellite Receiv
UFS 923/1000 GB/CI+ and UFS 92

High-end receiver with multi-media features

With two independent HDTV tuners, an integrated
hard disk drive and 2 x CI+.

Special features:

- HbbTV (additional information and services from the Internet)
- 16-digit alphanumeric display with status icons to show the programme names and programme information
- Permanent timeshift (ongoing recording of the selected programme)
- Premium *tvtv* EPG for up to 14 days
- Common Interface for 2 CI+/CI modules with dual decryption
- Multimedia archive for pictures and MP3 play-out
- Ethernet interface for multi-media applications
- Integrated UPnP server/client
- Network interface with streaming function
- UFScontrol app for iOS (iPad/iPhone) and Android
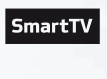- TV control – TV can be switched on/off through HDMI connection

Stand-by power drain < 0.5 Watt

Internal hard disk

Premium-*tvtv*-EPG

Sky programmes can be received over the Sky CI Plus module *

*) Sky reception with the Sky CI Plus module is only possible via satellite and with a valid Sky subscription

READY FOR HD+

Sie benötigen nur ein HD+ Modul inkl. HD+ Karte.

CI+

You Tube READY

Powered by **SHOUTcast Radio**

23/500 GB/CI+

Additional features:

- Reception of digital satellite TV and radio programmes in DVB-S2 (HDTV) and DVB-S transmission standards
- Video decoding of MPEG-2 and MPEG-4/H.264 signals (HDTV)
- Two independent Sat HDTV tuners with loop-through output
- Integrated 1,000 Gbyte (or 500 Gbyte) hard disk drive for up to 600 (300) hours of standard TV recordings or 200 (100) hours of HDTV recordings
- Recording of radio broadcasts on the integrated 1,000 (or 500) Gbyte hard disk drive
- Extended EPG functions: Sorting according to categories, extensive search function, creation and administration of programme tips
- Recording list with chapter menu and pictures
- Internet radio (SHOUTcast™-Radio)
- YouTube™ videos
- Guided first installation
- Pre-programmed programme list – immediate viewing without having to perform a programme scan
- Automatic download of software and programme lists
- Upscaler to convert PAL signals to 1080p
- Displays broadcaster logos in various on-screen displays
- Any number of timer recordings can be programmed (once, daily, weekly, user-defined and serial timers)
- Eight favourite programme lists each for TV and radio
- Videotext decoder with 800-page memory capacity
- Language selection for programmes broadcast in several languages
- Suitable for software updates (operational software and programme list separately) via satellite, USB stick and PC
- On-screen display (OSD) in 10 languages (DE, GB, FR, IT, ES, CZ, NL, PL, TR, RU)
- DiSEqC™1.0/1.1/1.2, USALS and SCR single-cable system control signals (EN 50494)
- LINUX-based operational system
- PIP function
- Multi-functional tuner on the front panel for easy operation
- 4,000 programme memory positions
- Mains switch

Connections:

- 4 x F-type connector (2 x input, 2 x output)
- 1 x Ethernet 10/100 Mbit/s – RJ45
- 3 x USB 2.0 (1 x front panel, 2 x rear panel)
- 2 x CI+/CI slot
- 1 x HDMI out
- 1 x YPbPr component output
- 2 x SCART (TV/VCR – RGB and S-Video)
- 1 x analogue Video (CVBS) – Cinch
- 2 x analogue Audio (l/r) – Cinch
- 1 x digital Audio S/PDIF optical
- 1 x digital Audio S/PDIF electrical
- 1 x IR sensor connection - RJ 11
- 1 x Power connection 230 V/50 Hz

Delivery scope:

- Infra-red remote control
- Batteries
- HDMI cable
- User manual
- Safety notes
- Power cable
- Loop-through cable

The receivers are available in silver and black.

Technical data subject to change.

HD Satellite Receiver UFS 932/HD+

The HD+ entry-level model

HDTV satellite receiver for HD+ and CI+. including an HD+ card valid for services for one year.

Special features:

- Kathrein EPG with intuitive timer programming
- Guided first installation
- 22; DiSEqC™1.0 and SCR single-cable system (EN 50494)
- Software update via satellite
- Upscaler to convert PAL signals to 1080p
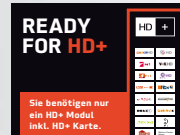
Stand-by power drain < 1 Watt

Recording/timeshift on external hard disk

Sky programmes can be received over the Sky CI Plus module *

*) Sky reception with the Sky CI Plus module is only possible via satellite and with a valid Sky subscription

Additional features:

- Reception of digital satellite TV and radio programmes in DVB-S2 (HDTV) and DVB-S transmission standards
- Video decoding of MPEG-2 and MPEG-4/H.264 signals (HDTV)
- Nagravision decoding system for HD+ embedded
- Valid HD+ smartcard
- CI+ interface for one CI+/CI module
- Upscaler to convert PAL signals (576i) to 576p, 720p, 1080i and 1080p
- Option to record TV and radio broadcasts on an external USB hard disk *)
- Timeshift function using an external USB hard disk *)
- Pre-programmed programme list - immediate viewing without having to perform a programme scan
- Ten favourite programme lists each for TV and radio
- Language selection for programmes broadcast in several languages
- On-screen display (OSD) in 10 languages (DE, GB, FR, IT, ES, CZ, NL, PL, TR, RU)
- 5,000 programme memory positions
- Videotext decoder with 800-page memory capacity
- 4-digit display
- Mains switch
- Stand-by power consumption: < 1 W

Connections:

- 2 x F-type sockets (1 x input, 1 x output)
- 1 x USB 2.0 (rear panel)
- 1 x CI+/CI slot
- 1 x Smart card reader
- 1 x HDMI out
- 1 x YPbPr component output
- 2 x SCART (TV/VCR – RGB and S-Video)
- 1 x analogue Video (CVBS) – Cinch
- 2 x analogue Audio (l/r) – Cinch
- 1 x digital Audio S/PDIF optical
- 1 x Power connection 230 V/50 Hz

The receivers are available in silver and black.

Delivery scope:

- Infra-red remote control
- Batteries
- HD+ card
- HDMI cable
- User manual
- Safety notes

* Only with hard disk drives from Kathrein's programme range or with suitable hard disk drives (www.kathrein.de → Service → FAQ)

Technical data subject to change.

The HD+ card is exclusively for use in the Federal Republic of Germany.

HD+ Receivers can only be delivered to customers in Germany

HDTV Satellite Receiver UFS 80

HDTV entry-evel model

Special features:

- Guided first installation
- Pre-programmed programme list – immediate viewing without having to perform a programme scan
- Kathrein EPG with intuitive timer programming
- 22; DiSEqC™1.0 and SCR single-cable system (EN 50494)
- Mains switch on front panel

Stand-by power drain < 1 Watt

Additional features:

- Reception of digital satellite TV and radio programmes in DVB-S2 (HDTV) and DVB-S transmission standards
- Video decoding of MPEG-2 and MPEG-4/H.264 signals (HDTV)
- Upscaler to convert PAL signals (576i) to 576p, 720p and 1080i
- Electrical audio output for Dolby * Digital data stream (AC 3)
- Eight favourite programme lists each for TV and radio
- 14 timers; convenient programming via EPG
- Suitable for software updates (operational software and programme list separately) via satellite and USB stick
- Videotext decoder with 800-page memory capacity and videotext generation (only via Scart)
- Language selection for programmes broadcast in several languages
- On-screen display (OSD) in eight languages (DE, GB, FR, IT, ES, CZ, NL, TR)
- 4,000 programme memory positions
- External IR sensor can be connected
- Stand-by power consumption: < 1 W
- 4-digit display ports
- Mains switch

Connections:

- 2 x F-type sockets (1 x input, 1 x output)
- 1 x USB 2.0 (rear panel)
- 1 x HDMI out
- 1 x SCART (TV - RGB and CVBS)
- 1 x analogue Video (CVBS) – Cinch
- 2 x analogue Audio (l/r) – Cinch
- 1 x digital Audio S/PDIF electrical
- 1 x IR sensor connection – RJ 11

Delivery scope:

- Infra-red remote control
- Batteries
- HDMI cable
- User manual
- Safety notes

The receivers are available in silver and black.

* Dolby is a registered trademark of Dolby Laboratories

Technical data subject to change

DVB-S Receiver FTA
UFS 651

Basic unit for satellite reception - Just watch TV

Special features:

- Typical power consumption during operation: 5 W
- Stand-by power consumption: < 0.5 W
- Guided first installation with national programme lists
- Pre-programmed programme list – immediate viewing without having to perform a programme scan
- HDMI output for top video quality on your flat-screen TV set
- Mains switch

Stand-by power drain < 0.5 Watt

With HDMI® connection

Upscaler converts to 576p, 720p and 1080i

DVB S Satellit

EPG Standard

HDMI Ausgang

VT 800 Seiten

MENÜ Mehrsprachig

4X Anzeige

ONoff Netzschalter

Additional features:

- Reception of digital satellite TV and radio programmes
- 4-digit display
- Kathrein EPG with timer programming
- Upscaler to convert PAL signals (576i) to 576p, 720p and 1080i
- Suitable for software downloads via satellite and PC
- Eight favourite programme lists each for TV and radio
- On-screen display (OSD) in eight languages (DE, GB, FR, IT, ES, CZ, NL, TR)
- 14 timers; convenient programming via EPG
- Language selection for programmes broadcast in several languages
- Electrical audio output for Dolby * Digital data stream (AC 3)
- CVBS and RGB signal output programmable on Scart socket
- Cinch sockets for AV signal
- Videotext decoder with 800-page memory capacity and videotext generation (via Scart only)
- Automatic 4:3 and 16:9 format recognition with optional output format
- Programme scan
- Programme position sort function
- Automatic date and time setting via DVB data stream
- DiSEqC™1.0 and SCR single-cable system (EN 50494)
- 4,000 programme memory positions
- Infra-red remote control
- External IR sensor can be connected

Connections:

- 2 x F-type sockets (1 x input, 1 x output)
- 1 x HDMI out
- 2 x SCART (TV/VCR - RGB and CVBS)
- 1 x analogue Video (CVBS) – Cinch
- 2 x analogue Audio (l/r) – Cinch
- 1 x digital Audio S/PDIF electrical
- 1 x IR sensor connection – RJ 11

Delivery scope:

- Infra-red remote control
- Batteries
- User manual
- Safety notes
- Scart cable
- Power cable

The receivers are available in silver and black.

* Dolby is a registered trademark of Dolby Laboratories

Technical data subject to change

DVB-S receivers for mobile use in caravans

Whoever spends a lot of time travelling will not want to miss out on their favourite TV/radio programmes and shows.
Kathrein have been taking their customers needs into account for years and have developed special satellite reception systems for use in motorhomes and caravans.
We have always set a high value on delivering the most convenience, the easiest operation and meeting the standards of our proven Kathrein quality. Not only do we offer satellite reception systems with automatic alignment, but also offer a range of more economical, manually alignable ones. Sat jointed masts, tripods and planar antennas simplify this form of satellite reception, making it as easy as possible. For even more comfort, Kathrein caravan receivers are equipped with a special Sat Finder, making it quicker and easier to receive a desired satellite even with manually adjustable systems.

r Caravans

For more information on our caravan products, please read our latest caravan product brochure or visit our website "www.kathrein.de"

HDTV Satellite Receiver for Mobile
UFS 940

The mobile concealed receiver

Special features:

- Integrated bracket and compact dimensions facilitate concealed installation
- Removable remote control sensor for concealed installation
- TV control – TV can be switched on/off through HDMI
- Integrated set of commands to control the automatic turntables CAP 900/910, 700/710/720, 600/610
- Kathrein easy-use EPG with intuitive timer programming

Stand-by power drain < 1 Watt

Recording/timeshift on external hard disk

Premium comfort EPG

Integrated Sat finder

940

Additional features:

- Reception of digital satellite TV and radio programmes in DVB-S2 (HDTV) and DVB-S transmission standards
- Video decoding of MPEG-2 and MPEG-4/H.264 signals (HDTV)
- Option to record TV and radio broadcasts on an external USB hard disk drive * (not in CAP mode)
- Upscaler to convert PAL signals (576i) to 576p, 720p and 1080i
- Guided first installation
- Antenna level shown on TV (optically and acoustically) for manual alignment of a parabolic reflector (Sat Finder)
- Common Interface for one CI module
- Pre-programmed programme list – immediate viewing without having to perform a programme scan
- Automatic download of software and programme lists
- Timeshift function using an external USB hard disk drive *
- Eight favourite programme lists each for TV and radio
- 1,000 timers (series and interval timers)
- Suitable for software updates (operational software and programme list separately) via satellite and USB stick
- Videotext decoder with 800-page memory capacity
- Language selection for programmes broadcast in several languages
- On-screen display (OSD) in eight languages (DE, GB, FR, IT, ES, CZ, PL, TR)
- 22; DiSEqC™1.0/1.1/1.2/USALS, CAP set of commands and SCR single-cable (EN 50494)
- 12 V supply for mobile use
- 230 V power supply unit for stationary use
- 31 pre-programmed satellites
- 4,000 programme memory positions
- Infra-red remote control with command set switching
- Stand-by power consumption: < 1 W
- On/off switch (disconnection from 12 V supply)

Connections:

- 2 x F-type sockets (1 x input, 1 x output)
- 1 x USB 2.0 (rear panel)
- 1 x CI slot
- 1 x HDMI out
- 1 x analogue Video (CVBS) – Cinch
- 2 x analogue Audio (l/r) – Cinch
- 1 x digital Audio S/PDIF optical
- 1 x IR sensor connection - RJ 11
- 1 x Power connection 12 V

The receiver is available in black.

Delivery scope:

- Infra-red remote control
- Batteries
- IR sensor
- TV connection cable 3 x Cinch to 3 x Cinch
- 12 V connection cable with shock-proof plug (cigarette lighter and 12 V connection plug)
- Power supply unit 230 V/12 V
- User manual
- Safety notes

* Only with hard disk drives from Kathrein's programme range or with suitable hard disk drives (www.kathrein.de → Service → FAQ)

Technical data subject to change.

HDTV Satellite Receiver for Mobile
UFS 946

The CI+ receiver for mobile use

Special features:

- Simplified aligning Kathrein antenna in conjunction with the inclinometer 60 HDZ
- Common Interface for a CI+/CI module
- Remote Sensor for concealed installation
- TV control – TV can be switched on/off through HDMI connection
- HbbTV (additional information and services from the Internet)
- Network interface with streaming function
- UFScontrol app for iOS (iPad/iPhone) and Android

Stand-by power drain < 0.5 Watt

Prepared for inclinometer HDZ 60

Sat finder menu

Installation options
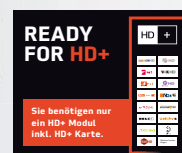
Powered by SHOUTcast Radio

You Tube READY

CI+

READY FOR HD+

HD+

Sie benötigen nur ein HD+ Modul inkl. HD+ Karte.

NEW

Additional features:

- Reception of digital satellite TV and radio programmes in DVB-S2 (HDTV) and DVB-S transmission standards
- Video decoding of MPEG-2 and MPEG-4/H.264 signals (HDTV)
- Kathrein easy-use EPG with intuitive timer programming
- Eight favourite programme lists each for TV and radio
- Multimedia archive for pictures and MP3 play-out
- Integrated UPnP server/client
- Internet radio (SHOUTcast™ radio)
- YouTube™ videos
- Guided first installation
- Pre-programmed programme list – immediate viewing without having to perform a programme scan
- Automatic download of software and programme lists
- Upscaler to convert PAL signals to 1080p
- Language selection for programmes broadcast in several languages
- Allows software updates (operational software and programme list separately) via satellite and USB stick
- On-screen display (OSD) in ten languages (DE, GB, FR, IT, ES, CZ, NL, PL, TR, RU)
- DiSEqC™1.0/1.1/1.2/USALS and SCR single-cable (EN 50494)
- 12 V supply for mobile use
- 230 V power supply unit for stationary use
- Mains switch
- 5,000 programme memory positions
- 16-digit alphanumeric display

Connections:

- 1 × F-type socket
- 1 x Ethernet 10/100 Mbit/s – RJ 45
- 1 x USB 2.0 (rear panel)
- 1 x CI+/CI slot
- 1 x HDMI out
- 1 x analogue Video (CVBS) – Cinch
- 2 x analogue Audio (l/r) – Cinch
- 1 x digital Audio S/PDIF optical
- 1 x digital Audio S/PDIF electrical
- 1 x IR sensor connection - RJ 11
- 1 x Power connection 12 V

The receiver is available in black.

Delivery scope:

- Infra-red remote control
- Batteries
- IR sensor
- HDMI cable
- 12 V connection cable with shock-proof plug (cigarette lighter and 12 V connection plug)
- Power supply unit 230 V/12 V
- User manual
- Safety notes

* Only with hard disk drives from Kathrein's programme range or with suitable hard disk drives (www.kathrein.de → Service → FAQ)

Technical data subject to change.

The mobile entry-level model

Special features:

- Guided first installation with national programme lists
- Pre-programmed programme list – immediate viewing without having to perform a programme scan
- HDMI output for top video quality on your flat-screen TV set
- Suitable for 12 V or 230 V connection

Stand by power drain < 1 Watt

With HDMI® connection

Upscaler converts to 576p, 720p and 1080i

Integrated Sat finder

Installation options

Additional features:

- Reception of digital satellite TV and radio programmes
- Upscaler to convert PAL signals (576i) to 576p, 720p and 1080i
- 4-digit display
- Common Interface for a CA module
- Kathrein EPG with timer programming
- Antenna level shown on TV (optically and acoustically) for manual alignment of a parabolic reflector (Sat Finder)
- Suitable for software downloads via satellite and PC
- 12 V supply for mobile use, stationary operation
- 230 V power supply unit for stationary use
- Eight favourite programme lists each for TV and radio
- On-screen display (OSD) in eight languages (DE, GB, FR, IT, ES, CZ, NL, TR)
- 14 timers; convenient programming via EPG
- Language selection for programmes broadcast in several languages
- Videotext decoder with 800-page memory capacity and videotext generation (only via Scart)
- Automatic 4:3 and 16:9 format recognition with optional output format
- Programme scan
- Automatic date and time setting via DVB data stream
- Programme position sort function
- 22; DiSEqC™1.0 and SCR single-cable system (EN 50494)
- 4,000 programme memory positions
- External IR sensor for concealed receiver installation (included in delivery scope)
- Stand-by power consumption: < 1 Watt
- On/off switch (disconnection from 12 V supply)

Connections:

- 2 x IEC connector female (1 x input, 1 x output)
- 1 x CI slot
- 1 x HDMI out
- 1 x SCART (TV - RGB and CVBS)
- 1 x analogue Video (CVBS) – Cinch
- 2 x analogue Audio (l/r) – Cinch
- 1 x digital Audio S/PDIF electrical
- 1 x IR sensor connection – RJ 11
- 1 x Power connection 12 V

The receiver is available in silver.

Technical data subject to change.

Delivery scope:

- Infra-red remote control
- Batteries
- Mounting bracket
- IR sensor
- TV connection cable 3 x Cinch to 3 x Cinch
- 12 V connection cable with shock-proof plug (cigarette lighter and 12 V connection plug)
- Power supply unit 230 V/12 V
- User manual
- Safety notes

DVB-T Receiver
UFT 676

Basic unit for DVB-T – Just watch TV

Energy-efficiency concept

Special features:

- Typical power consumption during operation: 5 W
- Stand-by power consumption: < 0.5 W
- An active DVB-T antenna (e.g. BZD 30, BZD 40) can be remote-fed through the RF input
- HDMI output for top video quality on your flat-screen TV set
- Guided first installation with national programme lists
- Programme sort according to pre-programmed programme list

Stand-by power drain < 0.5 Watt

With HDMI connection

Upscaler converts to 576p, 720p and 1080i

Additional features:

- Reception of FTA digital terrestrial TV and radio programmes
- Upscaler to convert PAL signals (576i) to 576p, 720p and 1080i
- 4-digit display
- Kathrein EPG with timer programming
- Logical channel number function
- Suitable for software downloads via PC (RS 232/RJ 11)
- Eight favourite programme lists each for TV and radio
- On-screen display (OSD) in eight languages (DE, GB, FR, IT, ES, CZ, NL, TR)
- 14 timers; convenient programming via EPG
- Language selection for programmes broadcast in several languages
- Videotext decoder with 800-page memory capacity and videotext generation (via Scart only)
- Automatic 4:3 and 16:9 format recognition with optional output format
- 1,000 programme memory positions
- Automatic date and time setting via DVB data stream
- Programme scan
- Programme position sort function
- Mains switch
- An active DVB-T antenna (e.g. BZD 30, BZD 40) can be remote-fed through the RF input
- External IR sensor can be connected

Connections:

- 2 x IEC connector female/male (1 x input, 1 x output)
- 1 x HDMI out
- 2 x SCART (TV/VCR - RGB and CVBS)
- 1 x analogue Video (CVBS) – Cinch
- 2 x analogue Audio (l/r) – Cinch
- 1 x digital Audio S/PDIF electrical
- 1 x IR sensor connection – RJ 11

The receiver is available in black.

Technical data subject to change.

Delivery scope:

- Infra-red remote control
- Batteries
- User manual
- Safety notes
- Scart cable

DVB-T Terrestrisch

EPG Standard

HDMI Ausgang

VT 800 Seiten

MENÜ Mehrsprachig

4X Anzeige

ONoff Netzschalter

BZD DVB-T Antennas

BZD 30

Active VHF/UHF indoor antenna for the reception of digital terrestrial TV and radio programmes (DVB-T).

Features BZD 30

- Reception range: VHF: 174-230 MHz; UHF: 470-862 MHz
- No specific alignment required as almost omni-directional characteristics
- For horizontal and vertical polarisation
- Attractive, space-saving design (Dimensions: 140 x 195 mm)
- Gain B III: 18 dB; UHF: 15 dB
- Remote feeding (5 V/30 mA) over the coaxial cable through the connected DVB-T receiver
- Very low noise figure
- Integrated trap filter against GSM interferences
- Accessories supplied:
    - Foot for easy mounting
    - Wall bracket with fixings
    - Connection cable of 2 metres length with a straight and an angled IEC plug

BZD 40

Active VHF/UHF outdoor antenna for the reception of digital terrestrial TV and radio programmes (DVB-T).

Features BZD 40

- Reception range: VHF: 174-230 MHz; UHF: 470-862 MHz
- For horizontal and vertical polarisation
- Attractive, space-saving design (Dimensions: 204 x 196 mm)
- Easy to mount on walls, masts or balconies
- Connection: F-type socket with protective cap
- Gain: B III: 18 dB; B IV/V: 15 dB
- Remote feeding (5 V/30 mA) over the coaxial cable through the connected DVB-T receiver or through external remote-feed power supply (5-25 V)
- Very low noise figure
- Accessories supplied:
    - Fixing material for wall or balcony mounting
    - 10 m connection cable, F-type plug and IEC plug

HDTV Cable Receiver
UFC 965/CI+

Standard HDTV Cable Receiver

Special features:

- Guided first installation with national programme lists
- Common Interface for a CI+/CI module
- Recording of TV and radio broadcasts on an external USB hard disk drive [1]
- Timeshift function using an external USB hard disk drive [1]
- EPG with intuitive timer programming
- Harmonized with UFO®*compact* processing system special features (LCN capable)
- Automatic programme list sorting (LCN) [2]

Stand-by power drain < 0.5 Watt

Recording/timeshift on external hard disk

HDTV Fernsehen
DVB-C Kabel
CI+ Schacht
DVR vorbereitet
TimeShift
USB Version 2.0
EPG Standard
HDMI Ausgang
VT 800 Seiten
MENÜ Mehrsprachig
ONoff Netzschalter

Additional features:

- Reception of digital cable TV and radio programmes
- Video decoding of MPEG-2 and MPEG-4/H.264 signals (HDTV)
- Upscaler to convert PAL signals to 1080p
- Nine favourite programme lists
- Language selection for programmes broadcast in several languages
- On-screen display (OSD) in over 20 languages
- 5,000 programme memory positions
- Videotext decoder with 800-page memory capacity
- 4-digit display
- Mains switch
- Stand-by power consumption: < 0.5 W

The receiver is available in silver and black.

* Only with hard disk drives from Kathrein's programme range or suitable hard disk drives (www.kathrein.de ➔ Service ➔ FAQ)
[2] According to NorDig specification Desc. 1.0, must be supported by the network operator
Technical data subject to change.

Connections:

- 2 x IEC connector female/male (1 x input, 1 x output)
- 1 x USB 2.0 (rear panel)
- 1 x CI+/CI slot
- 1 x HDMI out
- 1 x YPbPr component output
- 1 x analogue Video (CVBS) – Cinch
- 2 x analogue Audio (l/r) – Cinch
- 1 x digital Audio S/PDIF optical
- 1 x power connection 230 V/50 Hz

Delivery scope:

- Infra-red remote control
- Batteries
- HDMI cable
- User manual
- Safety notes

DVB Cable Receiver
UFC 662

Basic unit for cable TV – Just watch TV

Special features:

- HDMI output for top video quality on your flat-screen TV set
- Common Interface for a CA module
- Guided first installation with national programme lists
- Programme sort according to pre-programmed programme list

Stand-by power drain < 1 Watt

With HDMI®connection

Upscaler converts to 576p, 720p and 1080i

DVB C Kabel
CI Schacht
EPG Standard
HDMI Ausgang
VT 800 Seiten
MENÜ Mehrsprachig
~230V Netzteil
12V Mobil
4X Anzeige
ONoff Netzschalter

Additional features:

- Reception of digital cable TV and radio programmes
- Upscaler to convert PAL signals (576i) to 576p, 720p and 1080i
- 4-digit display
- Kathrein EPG with timer programming
- Suitable for software and programme list downloads via PC
- Eight favourite programme lists each for TV and radio
- On-screen display (OSD) in eight languages (DE, GB, FR, IT, ES, CZ, NL,TR)
- 14 timers; convenient programming via EPG
- Language selection for programmes broadcast in several languages
- Videotext decoder with 800-page memory capacity and videotext generation (only via Scart)
- Automatic 4:3 and 16:9 format recognition with optional output format
- Programme scan
- Automatic date and time setting via DVB data stream
- Programme position sort function
- 4,000 programme memory positions
- On/off switch (disconnection from 12 V supply)
- Connection for an external IR sensor (available as an accessory)
- Harmonized with UFO®compact processing system special features (LCN capable)

The receiver is available in black.

Technical data subject to change.

Connections:

- 1 × F-type connector, female (input)
- 1 x IEC pin (output)
- 1 x CI slot
- 1 x HDMI out
- 1 x SCART (TV/VCR – RGB and CVBS)
- 1 x analogue Video (CVBS) – Cinch
- 2 x analogue Audio (l/r) – Cinch
- 1 x digital Audio S/PDIF electrical
- 1 x IR sensor connection – RJ 11
- 1 x power connection 12 V

Delivery scope:

- Infra-red remote control
- Batteries
- User manual
- Safety notes
- Scart cable
- Power supply unit 230 V/12 V

Accessories

WLAN/USB adapter UFZ 130

The WLAN/USB adapter UFZ 130 allows wireless integration of network-capable Kathrein receivers into a home network.

• Supports the wireless standards IEEE 802.11b/g/n with a data rate of up to 150 Mbps
• Easy installation over receiver menu, no additional software required
• Rotatable antenna: 90° vertical and 180° horizontal
• Supports 64/128 bit WEP, WPA and WPA2 encryption
• LED indicates connection
• Supply voltage through receiver USB port
• Designed for the receivers: UFS 913 from software version V1.01, UFS 923 from software version V1.03, UFS 924, UFS 925, UFS 935, UFS 946, UFS 906

USB hard disk UFZ 112

• Recommended and suitable for Kathrein receivers featuring a facility to connect an external hard disk
• Hard disk capacity: 500 Gbytes for up to 300 hours of standard TV recordings or 100 hours of HDTV recordings
• The hard disk is controlled, switched on and off by the receiver
• No additional power supply unit required
• Only one USB cable required for connection

Delivery scope:
• Portable USB 2.0 hard disk
• USB cable
• Instructions for use

Infra-red sensor URS 100

• External infra-red sensor for hidden installation of the receiver
• Suitable for receivers with an RJ 11 interface (e.g. UFS 90, UFS 641, UFS 651, UFS 905, UFS 923, UFT 671 …)
• Cable length: 2 m

Exclusive Infra-red Remote Control RCU 672

- Exclusive remote control for Kathrein receivers
- Premium ergonomic design
- Distinctive plateau and different materials allow intuitive operation even in poor lighting
- Clear arrangement – buttons are divided into logical functional blocks
- Optimised for the receiver menu
- Soft-touch and innovative orientation guide on reverse side
- Switchable code (RCmm/RC6 Code)
- Includes brand-name batteries
- Designed for the receivers: UFS 940, UFS 932, UFS 931 UFS 922, UFS 912, UFS 910, UFS 905, UFS 904, UFS 903, UFS 902, UFS 900, UFS 90, UFS 80, UFS 822, UFS 821, UFS 740, UFS 712, UFS 710, UFS 705, UFS 700, UFS 651, UFS 640, UFS 601, UFT 676, UFT 675, UFT 671, UFC 960, UFC 861, UFC 662

ICON Description/Explanation

Icon	Description	Icon	Description	Icon	Description
LINUX System	LINUX-based operational system	EPG Komfort	Kathrein easy-use EPG with timer programming	12V Mobil	12 V supply for mobile use
HDTV Fernsehen	High definition TV	tvtv Premium-EPG	Professionally edited programme guide	SAT Update	Software and programme list downloading via satellite
DVB S Satellit	Reception of digital programmes in SD and HD	VT 800 Seiten	Videotext memory for 800 pages	AUTO Software	Automatic software download
DVB C Kabel	Cable tuner	HbbTV	Hybrid TV	AUTO Progr.-Listen	Automatic programme list download
DVB T Terrestrisch	Terrestrial tuner	PIP Bild-in-Bild	Picture in Picture function	4X Anzeige	4-digit alphanumerical display
TWIN Empfänger	Two independent tuners	HDMI Ausgang	HDMI output	12X Anzeige	12-digit alphanumerical display
Bedienrad	Rapid channel zapping using a scroll wheel on the receiver	HDMI TV-Ein-Aus	TV control on/off switching function over the HDMI connection **	16X Anzeige	16-digit alphanumeric display with status icons
ONoff Netzschalter	On/Off switch (with mains disconnection)	JPEG Diashow	Pictures can be displayed as slide shows	MENÜ Mehrsprachig	Different languages can be selected for on-screen display
HDD 500 GB	Hard disk drive with a 500-Gbyte storage capacity (HDD)	MP3 Wiedergabe	Multi-media archive for MP3 play-out	APP UFScontrol	App for smartphones
HDD 1000 GB	Hard disk drive with a 1,000-Gbyte storage capacity (HDD)	Nagravision	Nagravision decryption system integrated	256x64 Anzeige	Full graphic display
TimeShift	Timeshift function	Conax	Conax decryption system integrated	RADIO Text	Radiotext
REC Sofort-Aufn.	Immediate one-button recording start	CI Schacht	Common Interface for a CA module	WOL Wake On LAN	Wake On LAN
USB Version 2.0	USB 2.0 port for connection of external USB storage media	CI+ Schacht	Common Interface for one CI+ module	WLAN vorbereitet	WLAN ready
DVR vorbereitet	Recording option * on an external USB hard disk drive	2X CI Schacht	Common Interface for two CA modules		
Netzwerk	Ethernet interface	2X CI+ Schacht	Common Interface for two CI+ modules		
EPG Standard	Electronic programme guide (EPG) with detailed information	~230V Netzteil	230 V power supply unit for stationary use		

* Only with hard disk drives from Kathrein's programme range or with approved hard disk drives (www.kathrein.de →Service→FAQ)
** On flat-screen TV sets which support this function

Technical Data

Type		UFS 924si/ 1000 GB	UFS 924sw/ 1000 GB	UFS 924si/ 500 GB	UFS 924sw/ 500 GB	UFSconnect 906si	UFSconnect 906sw
				DVB-S			
Order no.		20210206	20210207	20210208	20210209	20210220	20210221
Colour		Silver	Black	Silver	Black	Silver	Black
RF range							
Sat-IF range	MHz	950-2,150				950-2,150	
Input level range	dBµV	44-83				44-83	
Modulation, FEC, de-multiplexer		DVB-S/ DVB-S2 standard				DVB-S/ DVB-S2 standard	
Video resolution		CCIR 601 (720 x 576 lines), 576p, 720p, 1080i, 1080p				CCIR 601 (720 x 576 lines), 576p, 720p, 1080i, 1080	
Video decoding		MPEG-2, MPEG-4/H.264, Xvid				MPEG-2, MPEG-4/H.264, Xvid	
Input data rate	MSymb/s	2-45 (30 for DVB-S2/8PSK)				2-45 (30 for DVB-S2/8PSK)	
S/N	dB	> 53				> 53	
TV system Audio							
Decoding		AC 3, MPEG-1, Layer 1, 2 and 3 (MP3)/HE-AAC				AC 3, MPEG-1, Layer 1, 2 and 3 (MP3)/ HE-AAC	
Sampling rate	kHz	32/44.1/48				32/44.1/48	
S/N	dB	> 65				> 65	
Hard disk recorder							
Memory capacity	Gbytes	1,000		500		-	
Recording time	hours	Approx. 600 for SDTV, approx. 200 for HDTV (depending on the data rate and modifications to picture contents)		Approx. 300 for SDTV, approx. 100 for HDTV (depending on the data rate and modifications to picture contents)		-)	
Power supply							
Mains voltage	V/Hz	230/50-60				230/50-60	
Power consumption (max./typ. operation/stand-by)	W	< 75/typ. 22/< 0.5				< 28/Typ. 10/< 0.5	
LNB supply voltage (horiz./vert.)	V/mA	14/18, Max. 400				14/18, Max. 400	
Control signal	kHz	22; DiSEqC™1.0/1.1/1.2, USALS, SCR single-cable system (EN 50494)				22; DiSEqC™1.0/-1.1/-1.2, USALS, SCR single-cable (EN 50494)	
Connections							
Sat-IF input		4 x F-type connector				1 × F-type socket	
TV/VCR connection		2 x Scart socket				-	
Video output (analogue)		3 x Cinch socket (YPbPr)/1 x Cinch socket				1 x Cinch socket	
Video/audio output (digital)		1 x HDMI				1 x HDMI	
Audio output (analogue)		2 x Cinch socket				2 x Cinch socket	
Audio output digital (optical/electrical)		Standard optical (SPDIF)/1 x Cinch socket				Standard optical (SPDIF)	
Common Interface/decryption system		For 2 CI+/CI modules/-				For 1 CI+ or CI module/-	
Data interface							
USB		3 x 2.0				3 x 2.0	
Ethernet		1				1	
SD card reader		1				-	
General							
Ambient temperature range	°C	Max. +5 to +40				Max. +5 to +40	
Dimensions (W x H x D)	mm	435 x 67 x 273				255 x 47 x 190	
Weight	kg	3.6				< 2	

Technical data subject to change.

Technical Data

Type		UFS 925si/ 500 GB	UFS 925sw/ 500 GB	UFS 935sw/HD+	UFS 923si/ 1000 GB	UFS923sw/ 1000 GB
		DVB-S				
Order no.		20210198	20210199	20210214	20210182	20210183
Colour		Silver	Black	Black	Silver	Black
RF range						
Sat-IF range	MHz	950-2,150		950-2,150	950-2,150	
Input level range	dBµV	44-83		44-78	44-83	
Modulation, FEC, de-multiplexer		DVB-S/ DVB-S2 standard		DVB-S/DVB-S2 standard	DVB-S/ DVB-S2 standard	
Video resolution		CCIR 601 (720 x 576 lines), 576p, 720p, 1080i, 1080p		CCIR 601 (720 x 576 lines), 576p, 720p, 1080i, 1080p	CCIR 601 (720 x 576 lines), 576p, 720p, 1080i, 1080p	
Video decoding		MPEG-2, MPEG-4/H.264, Xvid		MPEG-2, MPEG-4/H.264, Xvid	MPEG-2, MPEG-4/H.264, Xvid	
Input data rate	MSymb/s	2-45 (30 for DVB-S2/8PSK)		2-45 (30 for DVB-S2/8PSK)	2-45 (30 for DVB-S2/8PSK)	
S/N	dB	> 53		> 53	> 53	
TV system Audio						
Decoding		AC 3, MPEG-1, Layer 1, 2 and 3 (MP3)/HE-AAC		AC 3/MPEG-1, Layer 1, 2 and 3 (MP3)/HE-AAC	AC 3, MPEG-1, Layer 1, 2 and 3 (MP3)/HE-AAC	
Sampling rate	kHz	32/44.1/48		32/44.1/48	32/44.1/48	
S/N	dB	> 65		> 65	> 65	
Hard disk recorder						
Memory capacity	Gbytes	500		-	1000	
Recording time	hours	Approx. 300 for SDTV, approx. 100 for HDTV (depending on the data rate and modifications to picture contents)		-	Approx. 600 for SDTV, approx. 200 for HDTV (depending on the data rate and modifications to picture contents)	
Power supply						
Mains voltage	V/Hz	230/50-60		230 (± 10 %)/50-60	100-240/50-60	
Power consumption (max./typ. operation/stand-by)	W	< 75/typ. 22/< 0.5		< 34/Typ. 16/< 0.5	< 55/Typ. 21/< 0.5	
DC voltage		-		12	-	
LNB supply voltage (horiz./vert.)	V/mA	14/18, Max. 400		14/18, Max. 400	14/18, Max. 400	
Control signals	kHz	22; DiSEqC™1.0/1.1/1.2, USALS, SCR single-cable system (EN 50494)		22; DiSEqC™1.0/1.1/1.2/ USALS, SCR single-cable system (EN 50494)	DiSEqC™1.0/1.1/1.2/1.3 and SCR single-cable system (EN 50494)	
Connections						
Sat-IF input/output		2 x F-type sockets		2 x F-type sockets	4 x F-type connector	
TV/VCR connection		2 x Scart socket		1 x Scart socket	2 x Scart socket	
Video output (analogue)		3 x Cinch socket (YPbPr)/1 x Cinch socket		3 x Cinch socket (YPbPr)/ S-Video	3 x Cinch socket (YPbPr)/1 x Cinch socket	
Video/audio output (digital)		1 x HDMI		1 x HDMI	1 x HDMI	
Audio output (analogue)		2 x Cinch socket		2 x Cinch socket	2 x Cinch socket	
Audio output digital (optical/ electrical)		Standard optical (SPDIF)/1 x Cinch socket		Standard optical (SPDIF)/ 1 x Cinch socket	Standard optical (SPDIF)/1 x Cinch socket	
Common Interface		For 2 CI+/CI modules/Nagravision		For 1 CI+ or CI module/ Nagravision	For 2 CI+/CI modules	
Data interface						
USB		3 x 2.0		1 x 2.0	3 x 2.0	
Ethernet		1		1	1	
RS 232		1		-	RJ 11	
General						
Ambient temperature range	°C	Max. +5 to +40		Max. +5 to +40	Max. +5 to +40	
Dimensions (W x H x D)	mm	435 x 67 x 273		270 x 34 x 167	435 x 69 x 303	
Weight	kg	3.6		< 2	3.6	

		DVB-S					
Type		UFS 923si/ 500 GB	UFS 923sw/ 500 GB	UFS 932si/HD+	UFS 932sw/HD+	UFS 80si	UFS 80sw
Order no.		20210212	20210213	20210188	20210189	2010210	2010211
Colour		Silver	Black	Silver	Black	Silver	Black
RF range							
Input frequency range	MHz	950-2,150		950-2,150		950-2,150	
Input level range	dBµV	44-83		44-83		44-83	
TV system Video							
Modulation, FEC, de-multiplexer		DVB-S/ DVB-S2 standard		DVB-S/ DVB-S2 standard		DVB-S/ DVB-S2 standard	
Video resolution		CCIR 601 (720 x 576 lines), 576p, 720p, 1080i, 1080p		CCIR 601 (720 x 576 lines), 576i, 576p, 720p, 1080i		CCIR 601 (720 x 576 lines), 576i, 576p, 720p, 1080i	
Video decoding		MPEG-2, MPEG-4/H.264, Xvid		MPEG-2, MPEG-4/H.264		MPEG-2, MPEG-4/H.264	
Input data rate	MSymb/s	2-45 (30 for DVB-S2/8PSK)		2-45 (30 for DVB-S2/8PSK)		2-45 (30 for DVB-S2/8PSK)	
S/N	dB	> 53		> 53		> 53	
TV system Audio							
Decoding		AC 3, MPEG-1, Layer 1, 2 and 3 (MP3)/ HE-AAC		AC 3, MPEG-1, Layer 1 and 2		AC 3, MPEG-1, Layer 1, 2 and 3 (MP3)	
Sampling rate	kHz	32/44.1/48		32/44.1/48		32/44.1/48	
S/N	dB	> 65		> 65		> 65	
Hard disk recorder							
Memory capacity	Gbytes	500					
Recording time	hours	Approx. 300 for SDTV, approx. 100 for HDTV (depending on the data rate and modifications to picture contents)		-		-	
Power supply							
Mains voltage	V$_{AC}$/Hz	100-240/50-60		230 (± 10 %)/50-60		230 (± 10 %)/50-60	
Power consumption (max./typ. operation/ stand-by)	W	< 55/typ. 21/< 0.5		< 25/12/1		< 20/10/0.8	
LNB supply voltage (horiz./vert.)	V/mA	14/18, Max. 400		14/18; Max. 350		14/18, Max. 400	
Control signal	kHz	DiSEqC™1.0/1.1/1.2/1.3 and SCR single-cable system (EN 50494)		22; DiSEqC™1.0 and SCR single-cable system (EN 50494)		22; DiSEqC™1.0 and SCR single-cable system (EN 50494)	
Connections							
Sat-IF input/output (loop-through)		4 x F-type connector		2 x F-type sockets		2 x F-type sockets	
TV/VCR		2 x Scart socket		2 x Scart socket		1 x Scart socket	
Video output (analogue)		3 x Cinch socket (YPbPr)/1 x Cinch socket		3 x Cinch socket (YPbPr)/1 x Cinch socket		1 x Cinch socket	
Video/audio output (digital)		1 x HDMI		1 x HDMI		1 x HDMI	
Audio output (analogue)		2 x Cinch socket		2 x Cinch socket		2 x Cinch socket	
Audio output digital (optical/electrical)		Standard optical (SPDIF)/1 x Cinch socket		Standard optical (SPDIF)		1 x Cinch socket	
Common Interface/decryption system		For 2 CI+/CI modules		For 1 CI+ or CI module/Nagravision		-	
Data interface							
USB		3 x 2.0		1 x 2.0		1 x 2.0	
Ethernet		1		-		-	
RS 232		RJ 11		-		RJ 11	
General							
Permissible ambient temperature	°C	Max. +5 to +40		Max. +5 to +40		Max. +5 to +40	
Dimensions (W x H x D)	mm	435 x 69 x 303		210 x 40 x 310		255 x 47 x 190	
Weight	kg	3.6		< 2		< 2	

Technical data subject to change.

Technical Data

		DVB-S				
Type		**UFS 651si**	**UFS 651sw**	**UFS 940sw**	**UFS 946sw**	**UFS 641si**
Order no.		20210155	20210156	20210151	20210222	20210158
Colour		Silver	Black	Black	Black	Silver
RF range						
Input frequency range	MHz	950-2,150		950-2,150	950-2,150	950-2,150
Input level range	dBμV	44-83		44-83	44-78	44-83
TV system Video						
Modulation, FEC, de-multiplexer		DVB-S standard		DVB-S/ DVB-S2 standard	DVB-S/ DVB-S2 standard	DVB-S standard
Video resolution		CCIR 601 (720 x 576 lines), 576p, 720p, 1080i		CCIR 601 (720 x 576 lines), 567i, 576p, 720p, 1080i	CCIR 601 (720 x 576 lines), 576p, 720p, 1080i, 1080p	CCIR 601 (720 x 576 lines), 576p, 720p, 1080i
Video decoding		MPEG-2		MPEG-2, MPEG-4/ H.264	MPEG-2, MPEG-4/ H.264, Xvid	MPEG-2
Input data rate	MSymb/s	-		2-45 (30 for DVB-S2/8PSK)	2-45 (30 for DVB-S2/8PSK)	-
S/N	dB	> 53		> 53	> 53	> 53
TV system Audio						
Decoding		MPEG-1, Layer 1 and 2		AC 3, MPEG-1, Layer 1, 2 and 3 (MP3)	AC 3/MPEG-1, Layer 1, 2 and 3 (MP3)/HE-AAC	MPEG-1, Layer 1 and 2
Sampling rate	kHz	32/44.1/48		32/44.1/48	32/44.1/48	32/44.1/48
S/N	dB	> 65		> 65	> 65	> 65
Power supply						
Mains voltage	V_{AC}/Hz	230 ± 10 %/50		230 ± 15 %/50	230 (± 10 %)/50-60	230 ± 15 %/50
DC voltage	V	-		12	12	12
Power consumption (max./typ. operation/stand-by)	W	< 15/5/< 0.5		< 26/10/1	< 34/Typ. 16/< 0.5	< 26/12/< 1
LNB supply voltage (horiz./vert.)	V/mA	14/18, Max. 400		14/18, Max. 400	14/18; Max. 400	14/18, Max. 400
Control signal	kHz	22; DiSEqC™1.0, SCR single-cable (EN 50494)		22; DiSEqC™1.0/1.1/1.2, USALS, CAP command set, SCR single-cable (EN 50494)	22; DiSEqC™ 1.0/1.1/1.2, USALS, SCR single-cable (EN 50494)	22; DiSEqC™1.0, SCR-single-cable (EN 50494)
Connections						
Sat-IF input/output (loop-through)		2 x F-type sockets		2 x F-type sockets	1 × F-type socket	2 x F-type sockets
TV/VCR		2 x Scart socket		-		1 x Scart socket
Video output (analogue)		1 x Cinch socket		1 x Cinch socket	1 x Cinch socket	1 x Cinch socket
Video output (digital)		1 x HDMI		1 x HDMI	1 x HDMI	1 x HDMI
Audio output (analogue)		2 x Cinch socket		2 x Cinch socket	2 x Cinch socket	2 x Cinch socket
Audio digital output (electrical)		1 x Cinch socket		-	1 x Cinch socket	1 x Cinch socket
Audio digital output (optical)		-		Standard optical (SPDIF)	Standard optical (SPDIF)	-
Common Interface/decryption system		-/-		For 1 CA module	For 1 CI+/CI module	1/-
Data interface						
USB		-		1 x 2.0	1 x 2.0	-
RS 232		RJ 11		RJ 11		RJ 11
General						
Permissible ambient temperature	°C	Max. +5 to +40		Max. +5 to +40	Max. +5 to +40	Max. +5 to +40
Dimensions (W x H x D)	mm	255 x 47 x 190		226 x 38 x 170	270 x 34 x 167	255 x 47 x 190
Weight	kg	1.0		< 1.5	< 2	1.0

Technical data subject to change.

		DVB-T	DVB-C		
Type		UFT 676sw	UFC 965sw/CI+	UFC 965si/CI+	UFC 662sw
Order no.		20210157	20210186	20210187	20210150
Colour		Black	Black	Silver	Black
RF range					
Input frequency range	MHz	-	47-862		47-862
Input level range	dBµV	-	46-86		46-86
Demodulation			QAM 16, 32, 64, 128, 256		QAM 16, 32, 64, 128, 256
RF range terr.					
Input frequency range	MHz	174-230 and 470-862	-	-	-
Loop-through range	MHz	174-862	-	-	-
Channel bandwidth	MHz	7/8, automatically switchable	-	-	-
Modulation type		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	-	-	-
Input level range	dBµV	28-86 (at 16 QAM)	-	-	-
TV system Video					
Modulation, FEC, de-multiplexer		DVB-T standard	DVB-C standard		DVB-C standard
Video resolution		CCIR 601 (720 x 576 lines), 576p, 720p, 1080i	CCIR 601 (720 x 576 lines) 576p, 720p, 1080i, 1080p		CCIR 601 (720 x 576 lines) 576p, 720p, 1080i
Input data rate	MSymb/s	5-32	1-7		1.5-15
Video decoding		MPEG-1 and MPEG-2 compatible	MPEG-2, MPEG-4/H.264		MPEG-1 and MPEG-2 compatible
Bit rate	Mbit/s	1.5-15	-		-
Frequency range	kHz	0.02-5	-		-
S/N	dB	> 53	-		-
TV system Audio					
Audio decoding		MPEG-1 and MPEG-2, Layer 1 and 2	AC 3, MPEG-1, Layer 1 and 2		MPEG-1 and MPEG-2, Layer 1 and 2
Sampling rate	kHz	32/44.1/48	32/44.1/48		32/44.1/48
S/N	dB	> 65	> 65		> 53
Power supply					
Mains voltage	V_{AC}/Hz	230/50 ± 10 %	230 ± 10 %/50-60		230 ± 10 %/50
Power consumption (max./typ. operation/stand-by)	W	< 6/5/1	< 18/10/0.5		< 26/11/< 1
DC voltage	V	-	-		12
Remote feeding	V/mA	5/75	-		-
Connections					
RF input/output (loop-through)		2 x IEC connector female/male	2 x IEC connector female/male		F-type connector (f)/ IEC connector (f)
TV/VCR output		2 x Scart socket	1 x Scart socket		1 x Scart socket
Video output		Cinch socket	3 x Cinch socket (YPbPr)/1 x Cinch socket		1 x Cinch socket
Video/audio output (digital)		1 x HDMI	1 x HDMI		1 x HDMI
Audio output (analogue)		2 x Cinch socket	2 x Cinch socket		2 x Cinch socket
Audio digital output (electrical)		1 x Cinch socket	Standard optical (SPDIF)		1 x Cinch socket
Common Interface/decryption system		-/-	For 1 CI+/CI module		1/-
Data interface		RJ 11 socket	1 x USB 2.0		RJ 11 socket
General					
Permissible ambient temperature	°C	Max. +5 to +40	Max. +5 to +40		Max. +5 to +40
Dimensions (W x H x D)	mm	255 x 47 x 190	280 x 45 x 175		255 x 47 x 190
Weight	kg	1	< 2		1

Technical data subject to change.

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