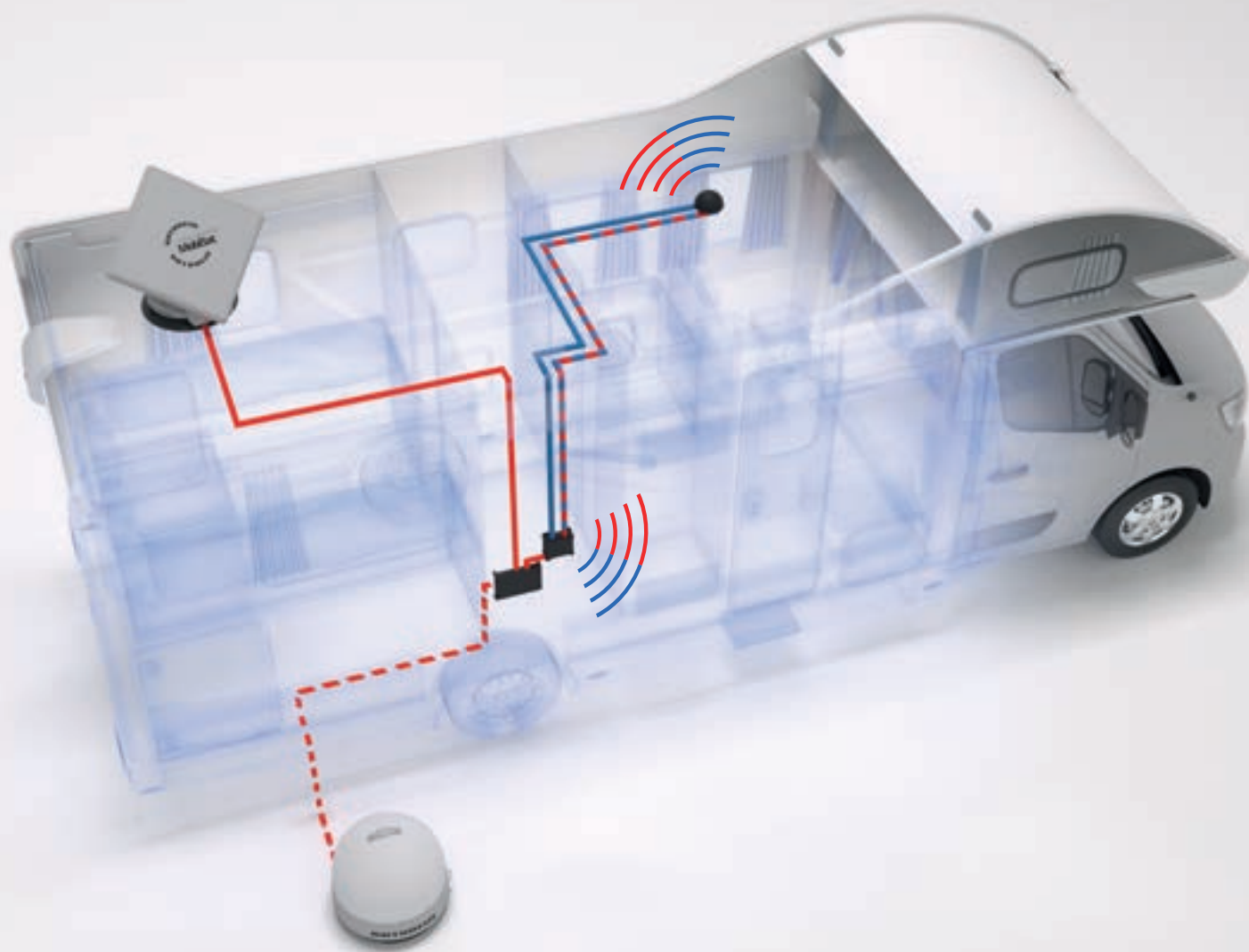




Pure Entertainment for Camping

SAT systems and router solutions for use when camping



KATHREIN

Digital Systems GmbH

KATHREIN | Digital Systems GmbH

Pure Entertainment for Camping

> We ensure the best possible radio and TV reception

KATHREIN Digital Systems is the market leader in digital satellite reception technology and a strong partner to resellers, trades and end-customers. KATHREIN Digital Systems reliably connects people and entertainment media like few others, based on innovative technologies and full-service support, from project planning through to commissioning. Thanks to its nationwide sales network and dedicated expert team, KATHREIN Digital Systems offers fast access, local availability and collaborative partnership with all market players.

The Kathrein brand has been a mark of quality for over 100 years, and the traditional company based in Rosenheim

today supplies products in the fields of SAT reception, broadband cable networks, camping and caravanning, DAB+ radios, network technology and passive DAS.

The company's development, technical support and logistics functions, and much of its production, are "Made in Germany". KATHREIN Digital Systems is committed to high quality standards, continuous development and consistent sustainability in all products and processes.

KATHREIN Digital Systems

For more information see: www.kathrein-ds.com

> Our awards

We always give our best so that we can win awards like these for your benefit



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Pure Entertainment for Camping: Internet & free live TV using a hotspot

People who travel a lot still want to catch their favourite TV and radio shows. Kathrein has been rising to this challenge from its customers since 1974 and has developed mobile reception systems specifically for use in motor homes/caravans. These are designed for maximum convenience and ease of operation, and offer the best Kathrein quality. A mobile Internet connection is also becoming

an increasingly important part of the camping experience. Our router sets are the perfect solution for this. By combining our external antenna on the roof with the router inside the vehicle, you can enjoy optimum reception at all times, both inside and outside your caravan/motor home. It's the ideal way to provide Internet for the whole family!



CAPcontrol app
Management & streaming

Free live TV
on a mobile terminal

Internet
on a mobile terminal

2 internal
SIM card
slots

CAR 150 and CAR 160 WLAN router sets

Do you often make trips in your motor home or caravan and would like quick and easy Internet access wherever you are in the world? Then equip your motor home or caravan today with the Kathrein WLAN and LTE router.



CAR 150 WiFi Duo LTE/4G Dual-SIM WLAN router set

- Internet via mobile telephony (LTE) or WLAN
- Two SIM card slots
- 12-V or 230-V power supply available

CAR 160 WiFi Duo 5G MIMO Dual-SIM WLAN router set

- LTE/5G MIMO antenna (black or white)
- Internet via mobile telephony (LTE) or WLAN (antenna ready for 5G reception)
- Two SIM card slots
- 12-V or 230-V power supply available

Because they have two SIM card slots, both routers enable you to access two different LTE networks at all times, **without having to switch cards**. This doubles your chances of finding excellent signal strength at the camp site or whilst you're on the move.

Good network reception is ensured by the compact, externally installed 5-in-1 antenna providing two LTE, one GPS and two WLAN antennas on the CAR 150, and the 4-in-1 antenna providing two 5G/LTE, one GPS and one WLAN antenna on the CAR 160. This allows you to easily use the WLAN networks on the camp sites, and also take advantage of free hotspots at businesses and restaurants. The user-friendly router interface shows you at a glance which networks are available and the corresponding signal strength, and makes it simple to switch between the various networks.



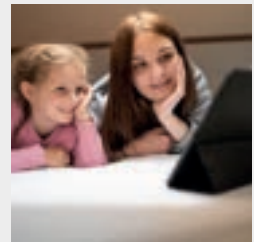
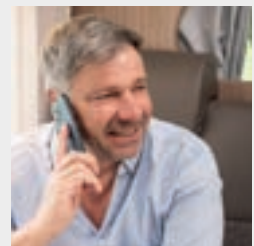
Items supplied:

- Router
- Roof antenna
- Internal WLAN antenna
- Roof duct with fixing screw
- 230-V power supply unit
- Ethernet cable
- 12-V connecting cable



ADVANTAGE

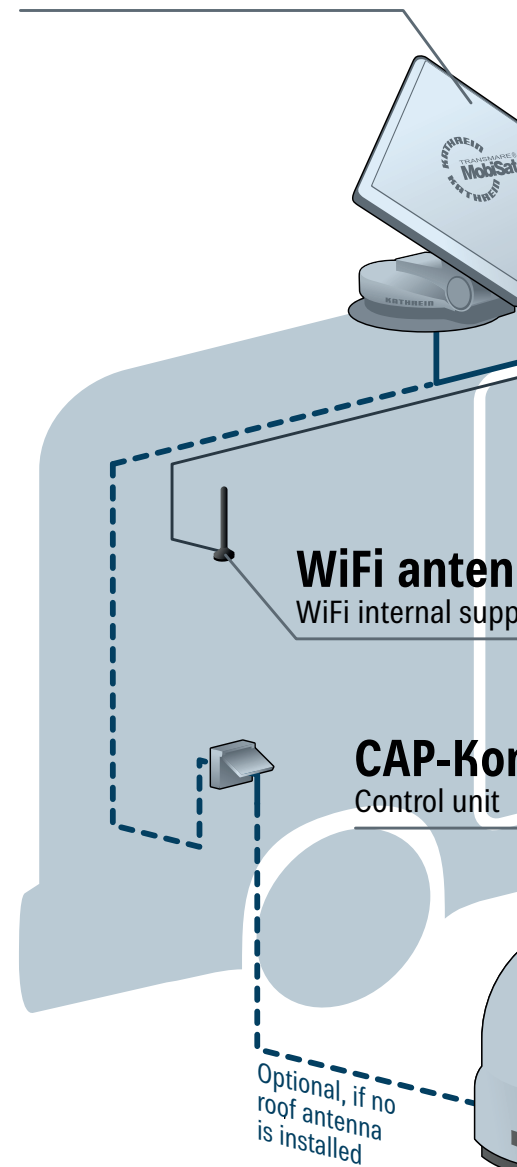
There is no need to log in your mobile terminals all over again when you switch to a new LTE or WLAN network.

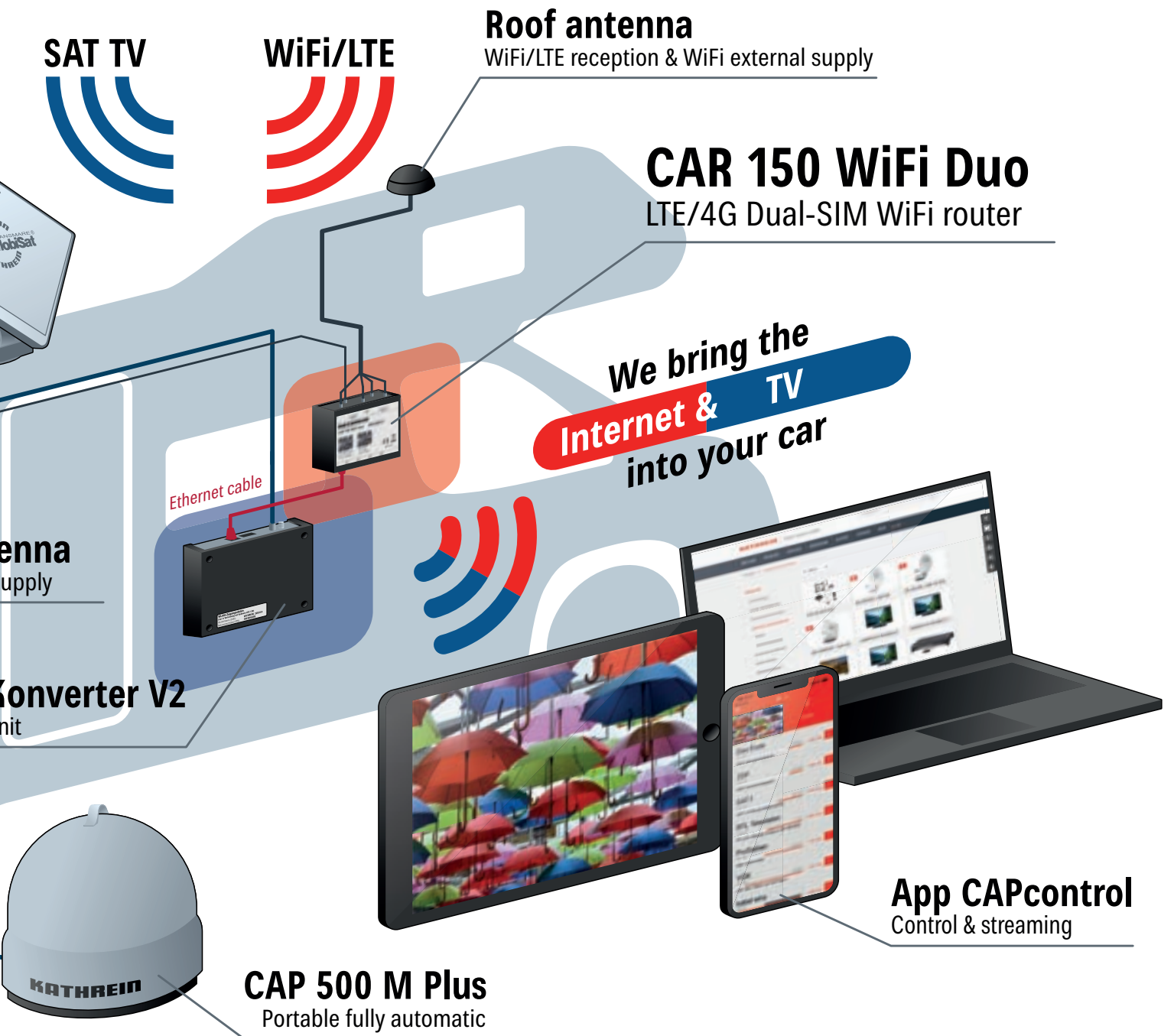


> Internet and TV via a hotspot

Using CAP x50 GPS, CAP 500M plus or HDS 166 plus with the CAR 150/160 router sets and our free "CAPcontrol" app, you can easily stream the received radio and TV channels to a mobile terminal. In this scenario, the UFZ 131/132 WLAN/USB stick normally required for streaming is replaced by the router. This has the advantage that the WLAN signal broadcast by the router via the internal and external antennas is stronger than that broadcast by the UFZ 131/132, thereby extending the signal range around the motor home or caravan.

CAP GPS antennas 650 / 750 / 850





Our advantages at a glance (HDP 650/750/850 GPS)

> Why you should choose a fully automatic antenna from Kathrein



1

GPS in all fully automatic antennas

GPS integration means we have reduced the search time for the systems to about 1 minute.



2

3-year warranty

We continuously optimise our products, and we are so confident of the quality that we offer a 3-year warranty on the HDP turntables.



3

Quality "made in Germany"

Kathrein turntables are developed and manufactured in Germany. We use high-quality materials to ensure a long working life.



4

Aerodynamic design

The aerodynamic design of the Kathrein HDP 750 and 850 fully automatic antennas minimises driving noise within the vehicle to an extreme degree.



5

CAPcontrol app

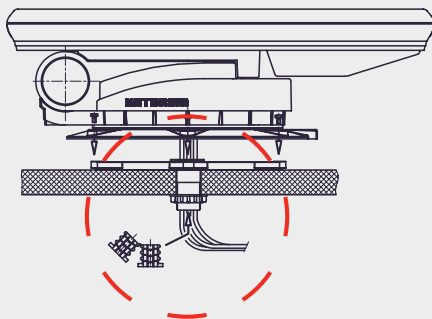
An app for controlling the automatic antennas, streaming of live TV to a mobile terminal (in conjunction with the UFZ 131/132), detecting the HDZ 60/66/66 Skew elevation instrument, integrated SAT finder and voice assistance during the alignment process (for instance, for the HDS 166 plus antenna set) – all conveniently arranged on your smartphone/tablet.



6

Cable routing

The cables of the Kathrein automatic antennas can be fed out the side and can also be brought into the vehicle directly underneath the system.



7

CI-BUS

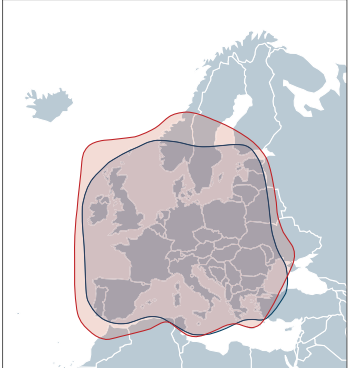

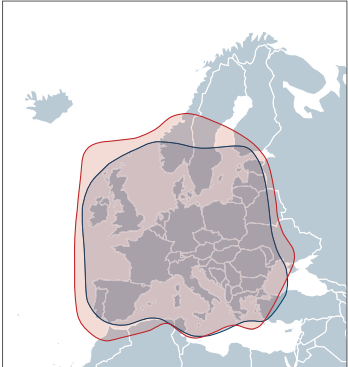

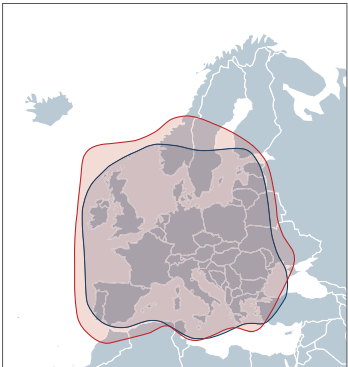

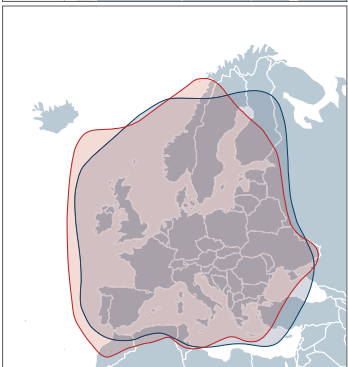

The use of an additional adapter makes the fully automatic antennas CI-BUS-capable and thus gives you an easy option for integration into CI-BUS systems.



Overview of SAT reception

	Footprints		Features	Page
■ ASTRA 19.2° East ■ Hotbird 13° East			<p>HDP 850 GPS</p> <ul style="list-style-type: none"> Optimised installed height: 17 cm Wide reception range thanks to the 85 cm parabolic reflector Twin LNB for connecting a second receiver or TV set <p>Order no.: 204500003</p>	16
			<p>HDP 750 GPS</p> <ul style="list-style-type: none"> Optimised weight: < 10 kg Optimum aerodynamics (low air resistance) Twin LNB for connecting a second receiver or TV set <p>Order no.: 20310056</p>	18
			<p>HDP 650 GPS</p> <ul style="list-style-type: none"> Compact design Installed height: 21 cm Twin LNB for connecting a second receiver or TV set <p>Order no.: 20310055</p>	20
			<p>CAP 500M CAP 500M plus</p> <ul style="list-style-type: none"> The complete package for fully automatic SAT reception (ASTRA 19.2° East) Lightweight, portable and thus mobile and flexible to use No additional controller required Streaming of TV and radio channels (CAP 500M plus) <p>Order no.: 203500003 203500004</p>	22

■ ASTRA 19.2° East ■ Hotbird 13° East

Footprints		Features	Page
		<p>HDS 166 HDS 166 plus</p> <ul style="list-style-type: none"> ▪ A space-saving and inexpensive alternative to the fully automatic SAT antenna ▪ Twin LNB for connecting a second receiver or TV set ▪ Voice wizard for alignment (plus) ▪ Streaming of TV and radio channels (plus) <p>Order no.: 20310052 2030000002</p>	26
		<p>BAS 66 Skew</p> <ul style="list-style-type: none"> ▪ For use on stationary motor homes, caravans or HGVs ▪ For mounting on HDM 14x SAT jointed masts ▪ Twin LNB for connecting a second receiver or TV set ▪ With skew adapter plate for optimising reception at the edge of the satellite footprint <p>Order no.: 2000000001</p>	30
		<p>BAS 65</p> <ul style="list-style-type: none"> ▪ For mounting on the wall, on masts, on booms and on flat surfaces ▪ Twin LNB for connecting a second receiver or TV set ▪ Incl. mounting support for easy alignment of the antenna <p>Order no.: 20010032</p>	31
		<p>KEA 650</p> <ul style="list-style-type: none"> ▪ Folding LNB carrier arm of aluminium ▪ Aluminium reflector, powder-coated ▪ Rear part, mast and clamping pieces (fully pre-assembled) of galvanised steel <p>Order no.: 20010048</p>	31

Fully automatic SAT antennas

➤ How to obtain perfect SAT reception



CAP 500M



HDP 850 GPS



HDP 750 GPS



HDP 650 GPS

Solution 1: Individual SAT TV packages

Consisting of HDP (650/750/850 GPS) and CTS TV set (22/24/27/32")



Caravan TV systems – single-cable solution from Kathrein and alphatronics

- Control the antenna directly from the TV set
- Only one coaxial cable between the TV set and the antenna
- Minimal installation work
- Live TV on a mobile terminal (smartphone, tablet) using the UFZ 131/132 (optional accessory)
- 100% freedom from pixel errors on the LED panel
- Made in Germany

Solution 2: Complete CAP package

Recommended where a TV set with a SAT tuner is already available.

Contents: Fully automatic antenna, CAP converter



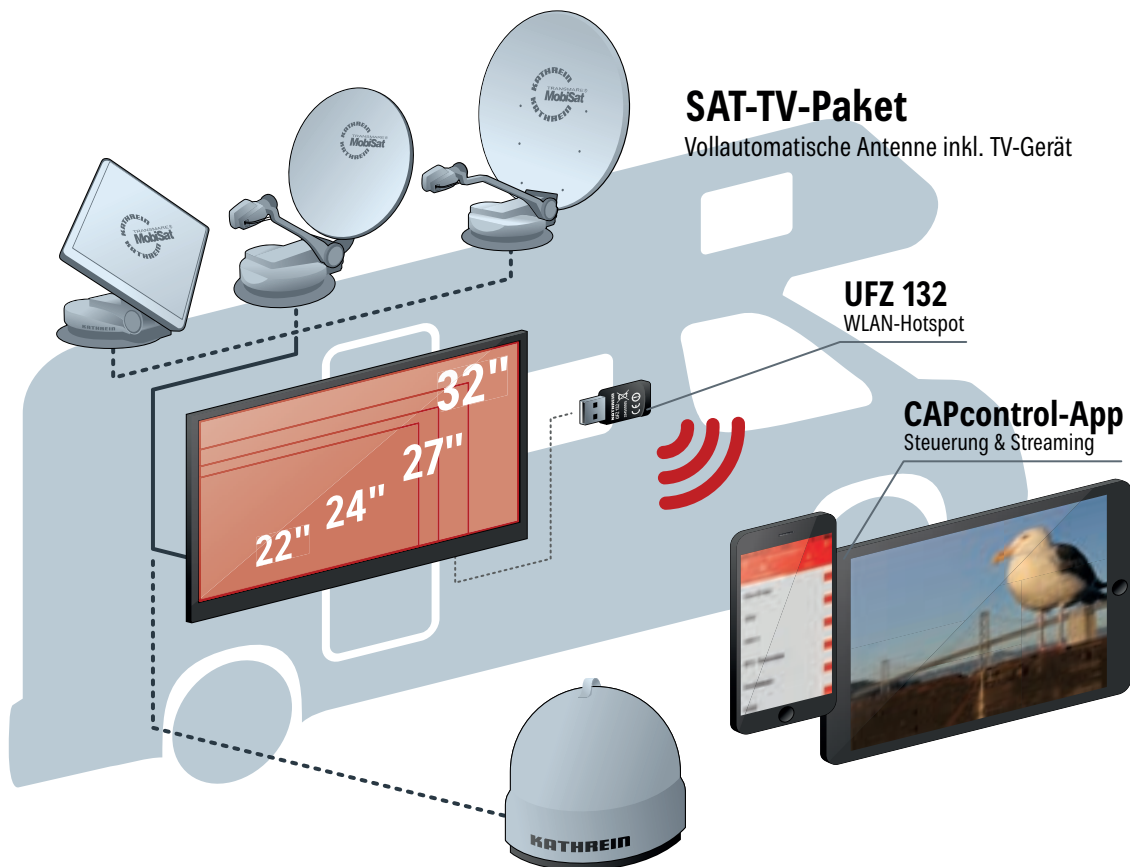
CAP 650 GPS/750 GPS/850 GPS/500M plus

- Receiver-independent antenna
- Compatible with any receiver or TV set with a SAT tuner
- Live TV on a mobile terminal (smartphone, tablet) using the UFZ 131/132 (optional accessory)

➤ Single-cable solution from Kathrein and alphanetronics Individual SAT TV packages

To create your individual SAT TV package, choose one of our fully automatic SAT antennas together with your desired TV set from alphanetronics. This combines the expertise of both companies into an intelligent reception concept.

The fully automatic SAT antennas are controlled directly from the alphanetronics TV set – there is no need to integrate a separate controller or receiver. As such, only two components (the turntable and the TV set) are required for TV and radio reception in your caravan or motor home. In their cooperative endeavour, Kathrein and alphanetronics each set great store by a simple connection between the antenna and the TV set, with very little need for cabling. The same coaxial cable is used to control the antenna and transfer the SAT signal to the TV set.

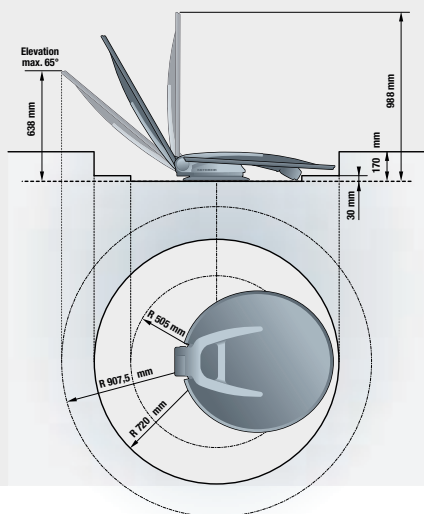
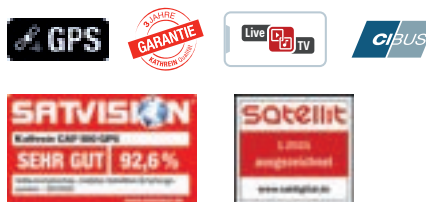


> The big one
HDP 850 GPS

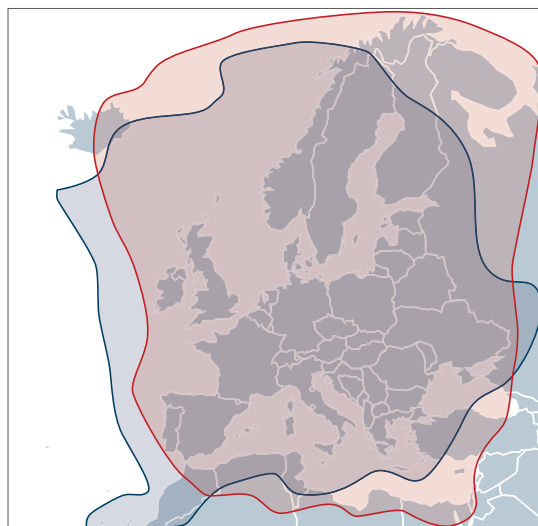
The HDP 850 GPS is based on the HDP 750 GPS but has been given a new carrier arm and an 85 cm parabolic reflector. The larger parabolic reflector increases the safety margin for reception and the effective operating radius of the system. The HDP 850 also uses GPS to ensure quick alignment of the antenna in about 1 minute. Due to a modified mechanism, the aerodynamic design of the system measures only 17 cm high, permitting vehicle speeds of up to 130 km/h (with the antenna lowered). In conjunction with the proven CAPcontrol app and the UFZ 131 or 132 WLAN/USB adapter, the HDP 850 also provides the sought-after functionality to stream live TV to a mobile terminal (smartphone, tablet).

Main features

- Optimised installed height: 17 cm
- Streaming of live TV using the UFZ 131/132 WLAN/USB adapter and the free CAPcontrol app
- Wide reception range due to the 85 cm parabolic reflector with high gain
- Twin LNB for connecting a second receiver or TV set
- Automatic alignment to other satellites on changing channels



Footprints



■ ASTRA 19.2° East ■ Hotbird 13° East

SAT TV packages with HDP 850 GPS

Solution 1

**Fully automatic antenna
HDP 850 GPS
incl. alphanetics TV set**



- Control the antenna directly from the TV set
- Only one coaxial cable between the TV set and the antenna
- Only one remote control
- No additional controller required
- Live TV on a mobile terminal (smartphone, tablet) using the UFZ 131/132 (optional accessory)

HDP 850 GPS, order no.: 204500003

The potential combinations are shown on page 25

Solution 2

**Fully automatic antenna
HDP 850 GPS incl. CAP converter**



- Receiver-independent antenna
- Compatible with any receiver or TV set with a SAT tuner
- Live TV on a mobile terminal (smartphone, tablet) using the UFZ 131/132 (optional accessory)

CAP 850 GPS, order no.: 203500001

Recommended accessories

▪ HDS 50 (only for solution 2)

External control part for the CAP x50 GPS series
Order no. 20410070
Further details on page 37

▪ UFZ 132

WLAN/USB adapter
Order no. 204500005
Further details on page 32

▪ HDZ 100

Roof duct
Order no. 20410032
Further details on page 37

▪ HDS 42

Master/slave changeover switch
Order no. 204000006
Further details on page 40

➤ **The lightweight one**
HDP 750 GPS

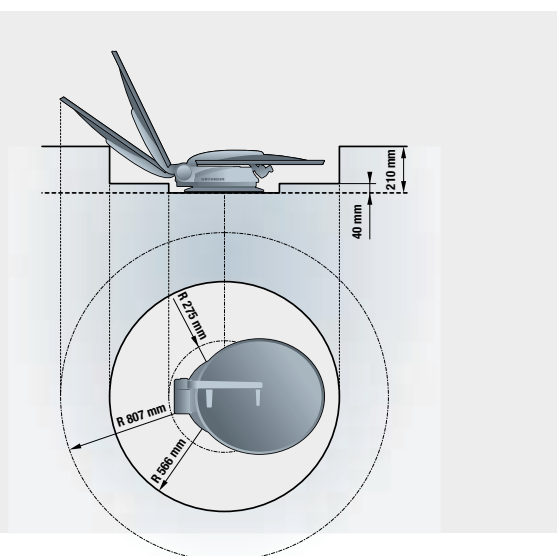
The use of a parabolic antenna increases the reception range compared to a planar antenna. The design of the parabolic antenna makes a clear contribution to limiting the weight of the antenna, keeping it below 10 kg, one of the lightest antennas on the market. This antenna also includes a twin LNB for connection of a second receiver. The HDP 750 GPS also uses GPS to ensure quick alignment of the antenna in about 1 minute. The aerodynamic design of the turntable and the planar antenna is only 21 cm high, permitting vehicle speeds of up to 130 km/h (with the antenna lowered).

Main features

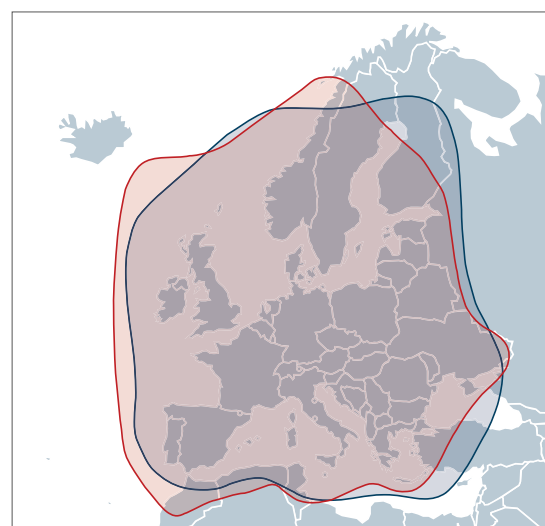
- Optimised weight: < 10 kg
- One of the lightest fully automatic turntables
- Optimum aerodynamics
 - Low air resistance
 - Low noise emission
- Allows connection of a second receiver or TV set



Space required



Footprints



■ ASTRA 19.2° East ■ Hotbird 13° East

SAT TV packages with HDP 750 GPS

Solution 1

**Fully automatic antenna
HDP 750 GPS
incl. alphatronics TV set**



- Control the antenna directly from the TV set
- Only one coaxial cable between the TV and the antenna
- No additional controller required
- Live TV on a mobile terminal (smartphone, tablet) using the UFZ 131/132 (optional accessory)

HDP 750 GPS, order no.: 20410084

The potential combinations are shown on page 25

Solution 2

**Fully automatic antenna
HDP 750 GPS incl. CAP converter**



- Receiver-independent antenna
- Compatible with any receiver or TV set with a SAT tuner
- Live TV on a mobile terminal (smartphone, tablet) using the UFZ 131/132 (optional accessory)

CAP 750 GPS, order no.: 20310056

Recommended accessories

- | | | | |
|--|--|--|---|
| <p>▪ HDS 50 (only for solution 2)
External control part
for the CAP x50 GPS series
Order no. 20410070
More information on page 37</p> | <p>▪ UFZ 132
WLAN/USB adapter
Order no. 204500005
More information on page 32</p> | <p>▪ HDZ 100
Roof duct
Order no. 20410032
More information on page 37</p> | <p>▪ HDS 42
Master/slave changeover switch
Order no. 204000006
More information on page 40</p> |
|--|--|--|---|



> The compact one
HDP 650 GPS

The HDP 650 GPS fully automatic antenna is equipped with a planar antenna, which makes this solution particularly compact and greatly minimises the space required. It is equipped with a twin LNB and also with GPS for very quick alignment of the antenna in about 1 minute.

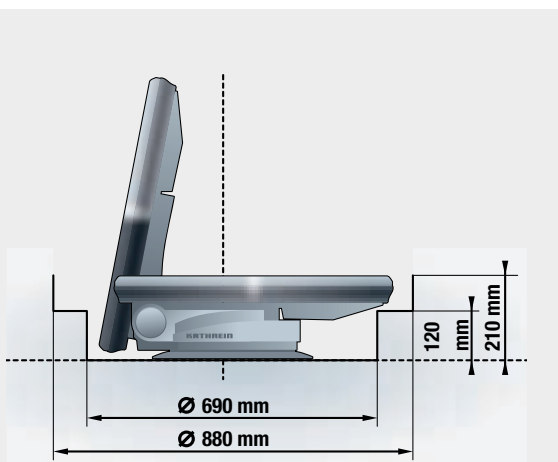
The aerodynamic design of the turntable and the planar antenna is only 21 cm high, permitting vehicle speeds of up to 130 km/h (with the antenna lowered).

Main features

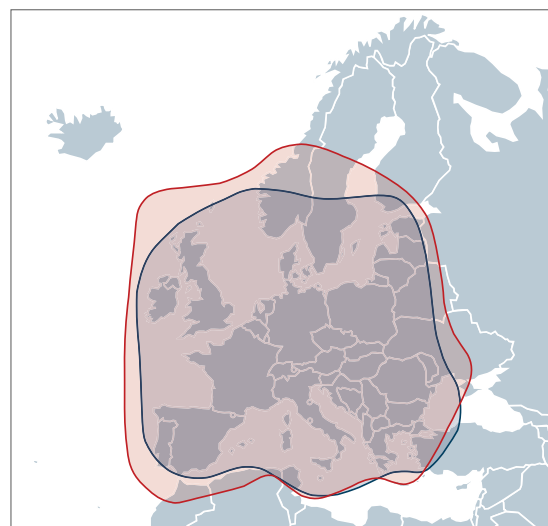
- Compact design
- Simple installation – only a single cable for control and transmission of the SAT signals
- Allows connection of a second receiver or TV set



Space required



Footprints



■ ASTRA 19.2° East ■ Hotbird 13° East

SAT TV packages with HDP 650 GPS

Solution 1

**Fully automatic antenna
HDP 650 GPS
incl. alphatronics TV set**



- Control the antenna directly from the TV set
- Only one coaxial cable between the TV set and the antenna
- Only one remote control
- No additional controller required
- Live TV on a mobile terminal (smartphone, tablet) using the UFZ 131/132 (optional accessory)

HDP 650 GPS, order no.: 20410083

The potential combinations are shown on page 25

Solution 2

**Fully automatic antenna
HDP 650 GPS
incl. CAP converter**



- Receiver-independent antenna
- Compatible with any receiver or TV set with a SAT tuner
- Live TV on a mobile terminal (smartphone, tablet) using the UFZ 131/132 (optional accessory)

CAP 650 GPS, order no.: 20310055

Recommended accessories

▪ HDS 50 (only for solution 2)

External control part for the CAP x50 GPS series

Order no. 20410070

Further details on page 37

▪ UFZ 132

WLAN/USB adapter

Order no. 204500005

Further details on page 32

▪ HDZ 100

Roof duct

Order no. 20410032

Further details on page 37

▪ HDS 42

Master/slave changeover switch

Order no. 2040000006

Further details on page 40



> The portable one
CAP 500M

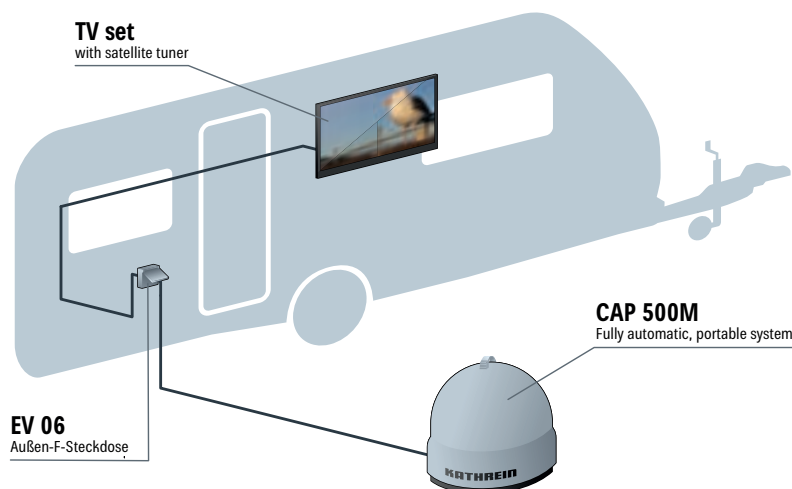
- The complete package for fully automatic SAT reception from ASTRA 19.2° East
- Lightweight, portable and thus mobile and flexible to use
- Quick installation and TV reception in typically 90 seconds
- No additional controller required
- Software updating via Bluetooth
- Power supply directly from any TV and any receiver with an integral SAT tuner
- Consumes no power in stand-by
- Anti-theft security

Items supplied:

- Fully automatic SAT antenna
- 10-m coaxial cable
- User manual/operating instructions



CAP 500M in direct operation on the TV set



ASTRA 19.2° East footprint



The potential combinations (CAP 500M and smart TV sets) are shown on page 25

> The portable one + streaming CAP 500M plus

- Live streaming of TV and radio channels to a mobile terminal in conjunction with the free CAPcontrol app
- The complete package for fully automatic SAT reception from ASTRA 19.2° East
- Lightweight, portable and thus mobile and flexible to use
- Quick installation and TV reception in typically 90 seconds
- Software updating via Bluetooth
- Power supply directly via the CAP converter
- Anti-theft security

Items supplied:

- Fully automatic SAT antenna
- 10-m coaxial cable
- User manual/operating instructions
- Kathrein WLAN/USB adapter
- CAP converter V2

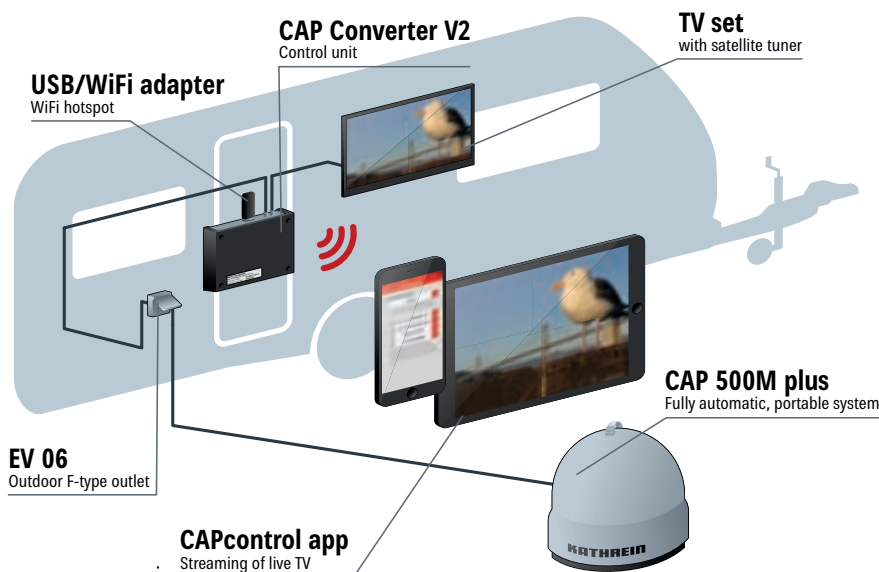


WLAN/USB adapter



CAP converter V2

CAP 500M plus with streaming of live TV



Install the
CAPcontrol app here:



> alphatronics smart TV sets
CTS SL-xx

You are sure to be impressed by the technological features offered by the SL-Line+. It has two SMART TV portals, opening up the world of the mobile Internet for you! The Android 9.0 operating system allows you to browse the Internet in comfort, or to choose from a wide variety of apps in the Google Play Store. The Netrange SMART TV portal offers you customised SMART TV content and a wide variety of interesting apps. Naturally, streaming services such as Netflix, Amazon Prime and Disney+ are also available. A further new feature is the capability to perform an OTA update (software update via the Internet). The Miracast and DLNA function allows the screen content of a mobile terminal to be shown full size on the TV.

The SL-Line+, like all alphatronics TV sets, is also equipped with Bluetooth. The new Bluetooth 5.0 standard allows connections to be established even more quickly, with a greater range and lower power consumption. The colour resolution incorporates an even wider colour spectrum and even brighter colours. The new AUDIO DSP technology offers a better sound quality experience, and the new digital processor offers quicker access to your favourite channels.



32"

27"



24"

22"



CTS SL-32 DSBAI+K,
CTS SL-27 DSBAI+K

- Kathrein single-cable solution control concept
- Audio-DSP technology
- 2 × HDMI
- alphatronicsSound Bluetooth 5.0 module integrated
- CI+ slot
- EPG
- Photo viewer
- 2 × USB 2.0 port/media player
- DVD player integrated on the side (format CD, DVD, VCD, MP3, DVD-R, DVD-RW, DivX, JPEG)
- Internet SMART TV 9.0
- SMART TV portal
- Sleep timer
- On/Off switch
- VESA standard (100 × 100 mm)

Items supplied:

- Remote control
- DVB-T antenna AN5
- Power supply unit
- YPbPr adapter
- AV adapter
- 12-V cable for the vehicle
- Batteries
- User manual

> Overview of caravan TV systems

“Single-cable solution” caravan TV systems from Kathrein & alphasatronics

Order no.	Type	TV order no.	Type
203500003	CAP 500 M	204500007	CTS SL-22 DSBAI+K
		204500008	CTS SL-24 DSBAI+K
		204500009	CTS SL-27 DSBAI+K
		204500010*	CTS SL-32 DSBAI+K
20410083	HDP 650 GPS	204500007	CTS SL-22 DSBAI+K
		204500008	CTS SL-24 DSBAI+K
		204500009	CTS SL-27 DSBAI+K
		204500010*	CTS SL-32 DSBAI+K
20410084	HDP 750 GPS	204500007	CTS SL-22 DSBAI+K
		204500008	CTS SL-24 DSBAI+K
		204500009	CTS SL-27 DSBAI+K
		204500010*	CTS SL-32 DSBAI+K
204500003	HDP 850 GPS	204500007	CTS SL-22 DSBAI+K
		204500008	CTS SL-24 DSBAI+K
		204500009	CTS SL-27 DSBAI+K
		204500010*	CTS SL-32 DSBAI+K

* UFZ 132 WLAN/USB adapter included



One-Cable-Solution
alphatronics

alphatronics offer the following range of TV sets:

- 22" CTS SL-22 DSBAI+K
- 24" CTS SL-24 DSBAI+K
- 27" CTS SL-27 DSBAI+K
- 32" CTS SL-32 DSBAI+K



Dimensions of TV sets

(W × H × D in mm; without a stand):

- 22": 503 × 312 × 52
- 24": 552 × 340 × 52
- 27": 622 × 376 × 55
- 32": 732 × 437 × 61

"Semi-automatic" SAT antennas

> **HDS 166 plus antenna set** 2030000002

This antenna set has been developed as a space-saving and inexpensive alternative to the fully automatic SAT antenna. It's perfect if you have no SAT reception directly at the vehicle, for instance because of shading by trees, and you wish to set up the system at some distance from your vehicle. Optimal interaction between the supplied components is ensured using the revised CAPcontrol app (Android and iOS). As soon as all the components have been installed and connected, the antenna is aligned in **60 seconds**. The HDS 166 plus antenna set is your ideal companion – whether you are travelling in a motor home, a caravan or a van.



FEATURES

- Voice wizard for alignment
- Streaming of TV and radio channels on a mobile terminal
- 11 satellites pre-installed
- GPS-capable smartphone/tablet is required for installation

Manual alignment has never been so easy

Items supplied

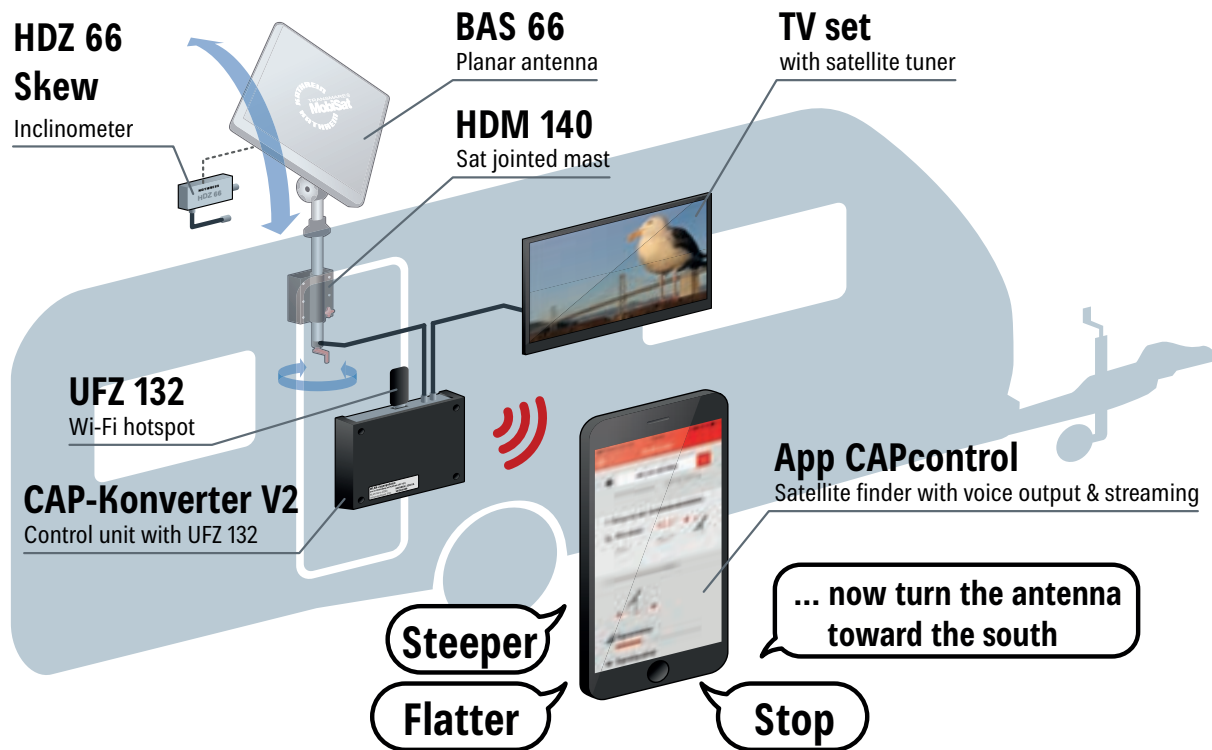
- BAS 66 Skew planar antenna (with twin LNB)
- HDZ 66 Skew elevation indicator
- Tripod, adapter joint, incl. carrying bags for tripod and antenna
- CAP converter V2 and UFZ 132 WLAN/USB adapter
- 15-m coaxial cable

Recommended accessories

- EV 06 outdoor outlet | 218464
 - 12 V power supply unit | 1683660
 - Adapter cable | 197500004
- For connection to 230 V sockets (adapter cable essential). Both obtainable from our central service and repair workshop
CSS Caravan-SAT-Service GmbH

➤ Complete solution with HDM 140/HDM 141 SAT jointed mast

SAT jointed masts allow optimum erection and rapid alignment of the BAS 66 planar antenna from inside the vehicle.

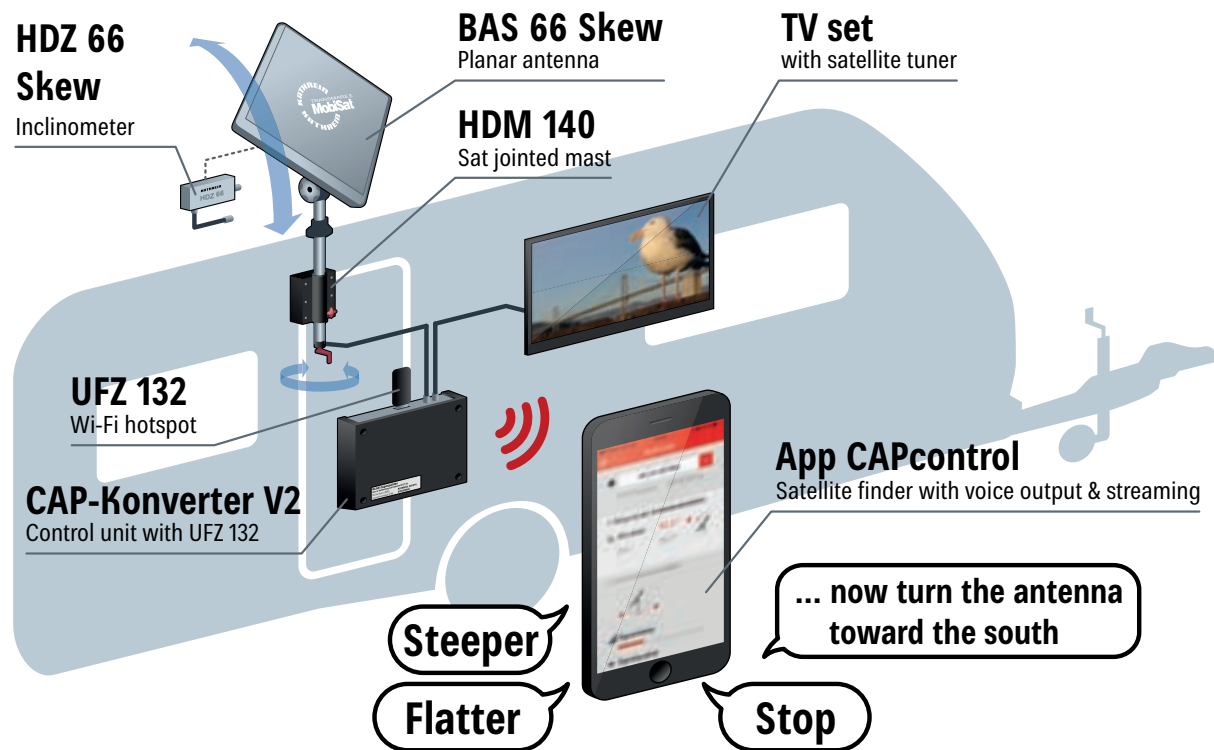


The complete HDM set consists of:

Order no.	Product	Description
200000001	BAS 66 Skew	Planar antenna with twin LNB and skew adapter plate; reception range: 10.7–12.75 GHz, fits a HDM SAT jointed mast
218456 or 218457	HDM 140 or HDM 141	HDM 140: SAT twin jointed mast for BAS 66/BAS 66 Skew for caravan installation, 103 cm long HDM 141: SAT twin jointed mast for BAS 66/BAS 66 Skew for caravan installation, short version, 76.5 cm long
204500002	HDZ 66 Skew	Elevation indicator: necessary for easy alignment using the app
204500001	CAP converter V2	Controller: necessary for easy alignment using the app
204500005	UFZ 132	WLAN/USB adapter: for wireless connection of suitable network-capable Kathrein receivers, IEEE 802.11n, WLAN hotspot

> Extension set for existing SAT jointed mast systems

The extension set can extend a planar antenna (such as BAS 66 with a HDM 140 jointed mast) already installed in the caravan so that it can be aligned using the app.



The extension set comprises:

Order no.	Product	Description
204500002	HDZ 66 Skew	Elevation indicator: Installation set for BAS 66/BAS 66 Skew
204500001	CAP converter V2	Controller: necessary for easy alignment using the app
204500005	UFZ 132	WLAN/USB adapter: for wireless connection of suitable network-capable Kathrein receivers, IEEE 802.11n, WLAN hotspot

* KATHREIN Digital Systems GmbH recommended retail price

Manual SAT antennas

> HDS 166 antenna set 20310052

The HDS 166 antenna set for manual SAT reception, consisting of a planar antenna, tripod, adapter joint, 15-m coaxial cable and carrying bag, is an excellent alternative to a fully automatic, permanently installed antenna.

The BAS 66 Skew planar antenna is very well suited to alignment and searching for satellites using a smartphone and a compass app (depending on the smartphone and operating system, such an app may be pre-installed).

Align the antenna in three easy steps:

- 1 Read the settings shown in the manual for the Azimuth/Elevation table supplied
- 2 Start the compass app, place the smartphone on the planar antenna and set the inclination (elevation) of the antenna
- 3 Use the spirit level app to determine the satellite position (for instance, in the Munich area Astra 19.2° East = 169.80°), and turn the antenna in that direction



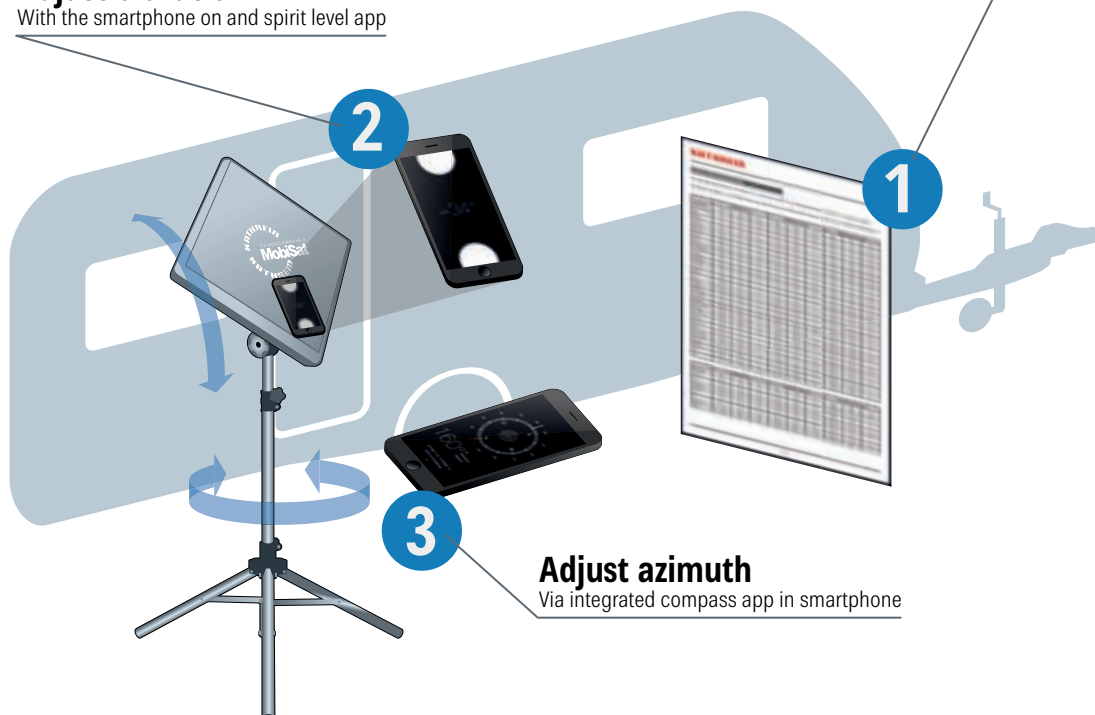
* KATHREIN Digital Systems GmbH
recommended retail price

Adjust elevation

With the smartphone on and spirit level app

Setting values for location

From azimuth/elevation table in the manual



Adjust azimuth

Via integrated compass app in smartphone

> Planar antennas

BAS 66 Skew

Despite its small size, the BAS 66 Skew planar antenna offers optimum satellite reception. This is due to the special honeycombed dipole structure of the reception surface.

- For use on stationary motor homes, caravans or HGVs
- For mounting on HDM 14x SAT jointed masts (see page 27 for details)
- With integral twin LNB (two outputs)
- With skew adapter plate for optimising reception at the edge of the satellite footprint

Recommended accessories

- **HDM SAT jointed masts (HDM 140/141/143)**
(see page 27 for further details)
- **HDZ 66 Skew elevation indicator**



> Elevation indicator

HDZ 66 Skew

Installation kit for BAS 66 Twin – easy antenna alignment in conjunction with the UFS 940, UFS 946 or CAP converter.

- Installation set for the BAS 66 and BAS 66 Skew planar antennas
- Easy antenna alignment in conjunction with the UFS 940/UFS 946/CAP converter
- Installed with a few simple steps on the LNB housing of the BAS 66 and BAS 66 Skew
- The specified elevation and actual elevation are displayed in the receiver menu/HDS 50 control part/CAPcontrol app
- The elevation can be displayed even when the skew is set
- The set skew is displayed in the HDS 50 control part/CAPcontrol app
- No additional cabling necessary between antenna and receiver



> Planar antenna for stationary use BAS 65

- For mounting on the wall, on masts, on booms and on flat surfaces
- Incl. mounting support for easy alignment of the antenna
- For reception of digital SAT TV and radio channels
- Frequency range: 10.70–12.75 GHz
- Power is supplied via the connected coaxial cable
- With integral twin LNB (two outputs)



Installation examples



> Offset parabolic antennas KEA 650

- Folding LNB carrier arm of aluminium
- Aluminium reflector, powder-coated
- Rear part, mast and clamping pieces (fully pre-assembled) of galvanised steel
- Stainless steel nuts and bolts
- Reflector colours: white, graphite



> Universal LNBS KEL 411, KEL 422

The Kathrein Euroline Universal feed systems are suitable for satellite receivers with a 40-mm LNB holder. They are intended for reception from satellites in the Ku band, such as ASTRA, EUTELSAT, Türksat, Hispasat etc. All LNBS are compatible with HDTV-/DVB-S2.



KEL 411
(single LNB)



KEL 422
(twin LNB)

Our unique selling points

> **Smartphone/tablet controlling the antenna and receiving live streaming**

The ability to set up a WLAN hotspot allows TV and radio transmissions to be streamed to mobile terminals (smartphones, tablets etc.) even without an additional Internet router.

No additional charges are payable. The data are sent by the UFZ 132 directly to your mobile terminal. This does not count as part of your data allowance.

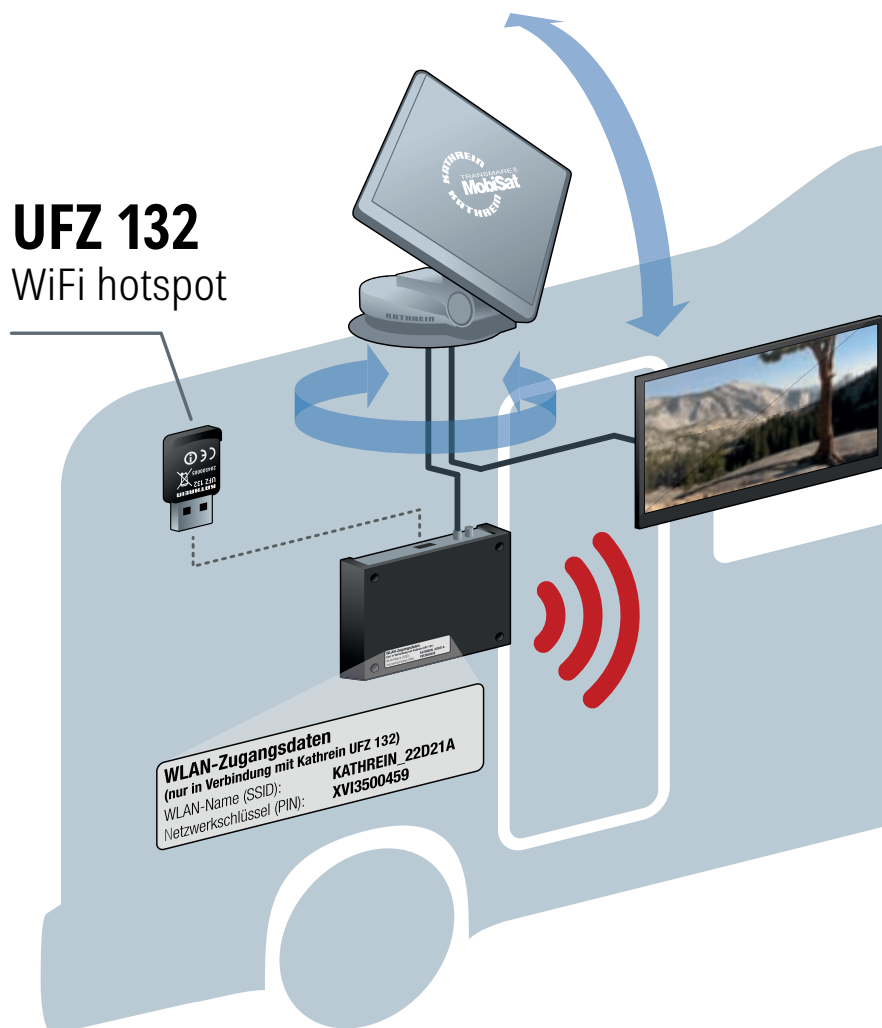
> **WLAN/USB adapter**

UFZ 132

- Supports the wireless standards IEEE 802.11a/b/g/n with a data rate up to 433 Mbps
- No additional software required
- Supports 2, 4 and 5 GHz ISM bands (dual band)
- Supports 64/128-bit WEP, WPA, WPA2 encryption
- Power supply via the USB port
- Suitable for CAP converters and alphatronics TV

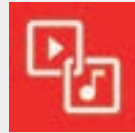


UFZ 132 WiFi hotspot



App CAPcontrol

Control and streaming



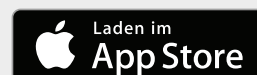
CAPcontrol app

Convenience and versatility
as standard

The Kathrein "CAPcontrol" app has been comprehensively revised and offers some new functions. As well as the existing capability to control fully automatic antennas and live TV (in conjunction with the optional UFZ 132), the app now also has an integral SAT finder, designed specifically for the BAS 66 Skew manual planar antenna and the HDZ 66 Skew elevation indicator. When used in conjunction with the CAP converter V2 or an alphantronics TV set with a Kathrein control unit, this antenna can now be aligned conveniently from a smartphone/tablet.

CAPcontrol app features

- Controls the automatic antennas
- Live TV on a mobile terminal (smartphone/tablet)
- Displays the software version and update availability for the fully automatic antennas
- Detects the HDZ 60/66 elevation indicator
- SAT finder integrated
- Voice assistance when aligning the HDS 166 plus antenna set



> **Satellite reception in vans**

Vans – small, compact and lively – are nowadays greatly loved by caravanning enthusiasts. Compact solutions are necessary so that you need not do without satellite reception in such a vehicle. Our CAP 650 GPS fully automatic antenna and our HDS 166 or HDS 166 plus antenna sets satisfy precisely this requirement.

> **Variant 1**

TV reception with CAP 650 GPS

The compact CAP 650 GPS takes up only a small amount of space on the vehicle and can also be operated without a TV set.

In this case, the system is controlled from a mobile terminal (tablet, smartphone). Thanks to live streaming, TV channels can be received and displayed directly on it.



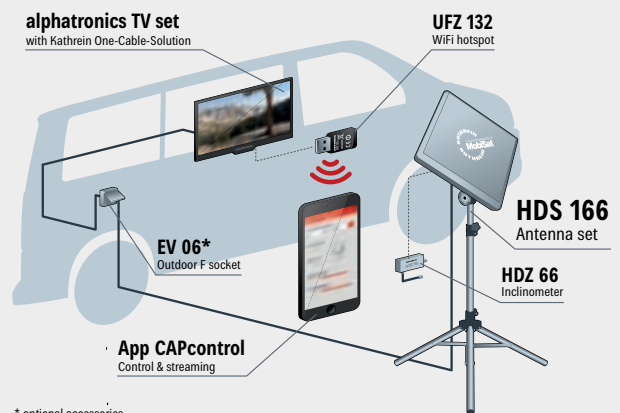
> **Variant 2**

TV reception with HDS 166 or HDS 166 plus

The HDS 166 antenna set is the ideal solution for campers who would prefer not to mount an antenna on their vehicle. Its very small packed volume and quick alignment using a smartphone set it apart.

Perfectly matched with an alphatronics SL-Line TV set (with Kathrein control unit)

The alignment is performed even more quickly using a smartphone in conjunction with an appropriate alphatronics TV set and the UFZ 131/132. The revised version of the CAPcontrol app now detects the elevation indicator (which is included with the HDS 166). The additional integrated SAT finder allows the antenna to be optimally aligned even when the TV set cannot be seen.



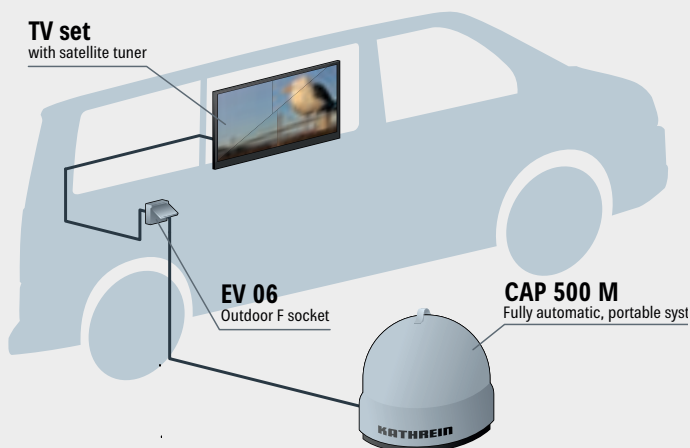
* optional accessories

> Variant 3

TV reception with the CAP 500M or CAP 500M plus

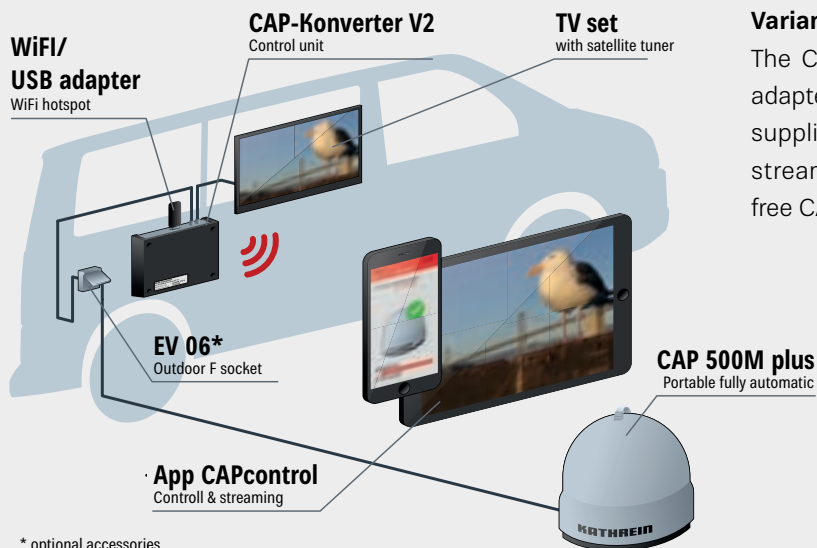
The CAP 500M or the CAP 500M plus set is the ideal solution for campers who would prefer not to mount an antenna on their vehicle, but who nevertheless would like an automatic antenna. The CAP 500M does not need its own power supply, instead it simply draws power from the TV set with the SAT tuner, via the supplied antenna cable that is plugged in.

The plus variant (incl. CAP converter and WLAN/USB adapter) is ideal if no TV set can be installed in the camper/caravan and the user wishes to stream to a mobile terminal.



Variant without streaming

The antenna cable supplied connects the CAP 500M directly to the TV set. No additional cables required.



Variant with streaming

The CAP 500M and the UFZ 132 USB/WLAN adapter are connected to the CAP converter V2 supplied. Radio and TV channels can now be streamed to a mobile terminal using the free CAPcontrol app.

* optional accessories

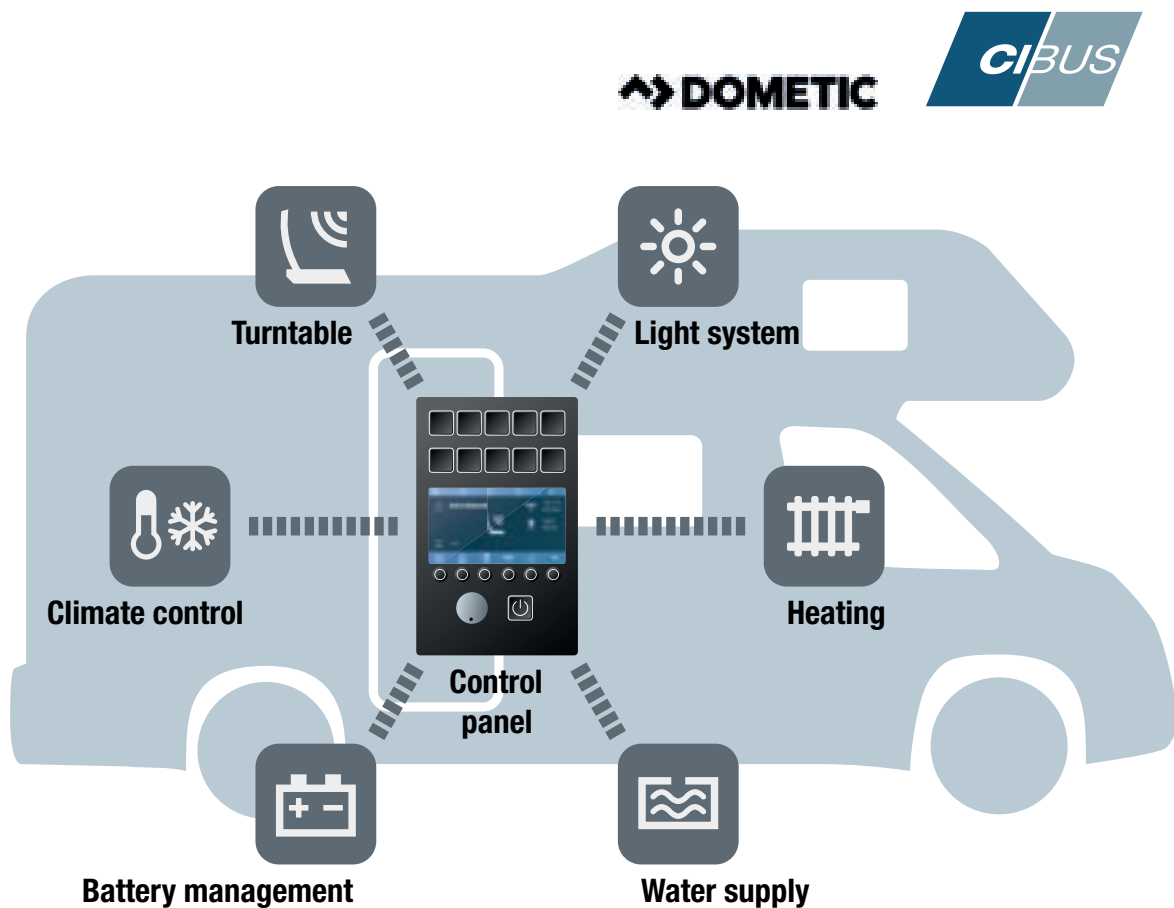
> **Central control of the fully automatic antenna via the CI-BUS**

The digital lifestyle has long been part and parcel of caravans and mobile homes. The caravanning industry bus (CI-BUS) interface allows all electrical equipment that conforms to this standard to be easily controlled by a central control part.

Kathrein is ensuring that campers will in future be able to optimise their reception of broadcasts using this convenient method. Because an additional adapter is used, our CAP x50 GPS receiver-independent antennas are CI-BUS-capable and thus give you an easy option for

integration into CI-BUS systems. Mobile homes and caravans made by Hobby were the first to make use of a CI-BUS-capable fully automatic antenna. These are available with the CAP 650 GPS as an exclusive special accessory.

It goes without saying that we are working on being able to connect our products via the CI-BUS to other central control parts as well. For example, thanks to our collaboration with DOMETIC, our fully automatic antennas can now be controlled using a DOMETIC central control part.



Accessories and DVB-T2 antennas

> External control part for the CAP x50 GPS range HDS 50

The HDS 50 external control part allows you to control the CAP 650 GPS, 750 GPS, 850 GPS and 950 antennas easily and conveniently without needing to switch on a receiver or TV set. Other functions are available in addition to the ability to select satellites and to lower the antenna into the park position. These functions can be called up via a highly intuitive menu. An LC display provides the necessary overview.

- Compatible with the CAP x50 GPS range
- No power supply of its own required
- Easy wall mounting
- Includes 3-m connection cable
- Dimensions (W × H × D in mm): 227 × 38 × 172



> Controller CAP converter V2

The CAP converter is included with the CAP x50 and CAP 500M plus fully automatic antennas, and also with the HDS 166 plus antenna set. It serves as the central controller. As a standalone product, it is particularly recommended for customers who wish to convert their CAP antenna with a receiver into a receiver-independent solution. Furthermore, the CAP converter and the UFZ 131/132 WLAN stick also allow the HDS 166 antenna set to be expanded to include live TV on the smartphone/tablet and alignment using the voice wizard.



Caution! A firmware update for the turntable is necessary for converting the CAP systems (6xx, 7xx or 9xx) to the CAP converter. This update can be performed by our service workshops.

> Roof duct HDZ 100

- Protective housing for cable interfaces
- Also suitable for continuing the cable routing on the roof
- For a maximum of two RF cables and one DC cable
- Optimised for CAP systems
- Easy installation
- Unused cable gland entries can be blocked by integral sealing plugs
- Cable duct connection point size: up to 29 × 17 mm



> **WLAN/USB adapter**

UFZ 132

WLAN/USB adapter for live TV/radio streaming to mobile terminals in conjunction with the free CAPcontrol app (iOS and Android); IEEE 802.11n; WLAN hotspot

- Supports the wireless standards IEEE 802.11a/b/g/n with a data rate up to 433 Mbps
- No additional software required
- Supports 2, 4 and 5 GHz ISM bands (dual band)
- Supports 64/128-bit WEP, WPA, WPA2 encryption
- Power supply via the USB port
- Suitable for CAP converters and alphasatronics TV sets



> **Outdoor outlet**

EV 06

Outdoor outlet with 5-m coaxial cable, connection: F-type connector



> **Active DVB-T2 antennas**

BZD 30/32/40



Active DVB-T/T2 indoor antenna BZD 30

- Remote power supply (5 V/30 mA) is provided from the DVB-T2 receiver via the coaxial cable
- Incl. 2 m long connecting cable
- Integrated blocking filter against GSM and LTE interference



Active DVB-T/T2 indoor antenna BZD 32

- Remote power supply (5 V/30 mA) is provided via the 3 m USB remote supply cable, e.g. from the TV set
- Integrated blocking filter against GSM and LTE interference



Active DVB-T/T2 outdoor antenna BZD 40

- Remote power supply (5 V/30 mA) is provided from the DVB-T2 receiver via the coaxial cable
- Accessories: fastenings for wall or mast mounting, 10 m connecting cable, F-type connector and IEC connector

> SAT jointed masts and tripod stand

HDM 140, 141, 143, HDS 100

SAT jointed masts allow optimum erection and rapid alignment of the BAS 66 planar antenna from inside the vehicle. The jointed masts are of rust-proof and seawater-resistant duralumin; the joint heads are

of die-cast aluminium. In conjunction with the BAS 66, this is the manual alternative to the automatic system. The maximum permissible vehicle speed is 130 km/h.



HDM 140 mast

For mounting the BAS 66 planar antenna on a caravan or mobile home, 103 cm long



HDM 141 mast

Like the HDM 140, but a shorter version, 76.5 cm long



HDM 143 mast

For converting a terrestrial reception system into a SAT reception system with the BAS 66 planar antenna



HDM 135 duralumin mast

Length 2 m, diameter 35 mm, with attachment bracket and roof gland



HDS 100 SAT tripod stand

Ideal for flexibly erecting the BAS 65 or KEA 650 SAT antennas, extendable rotating extension for simple alignment of the antenna when installed, aluminium tripod stand with 1.5 mm wall thickness (lightweight and very stable), securing pegs for stability on the ground, incl. carrying bag

* KATHREIN Digital Systems GmbH recommended retail price



Spare parts for many products in the "Camping and Caravan" range are available from the Kathrein repair workshop CSS Caravan-Sat-Service GmbH (the address can be found on page 48).

> Master/slave changeover switch
HDS 42

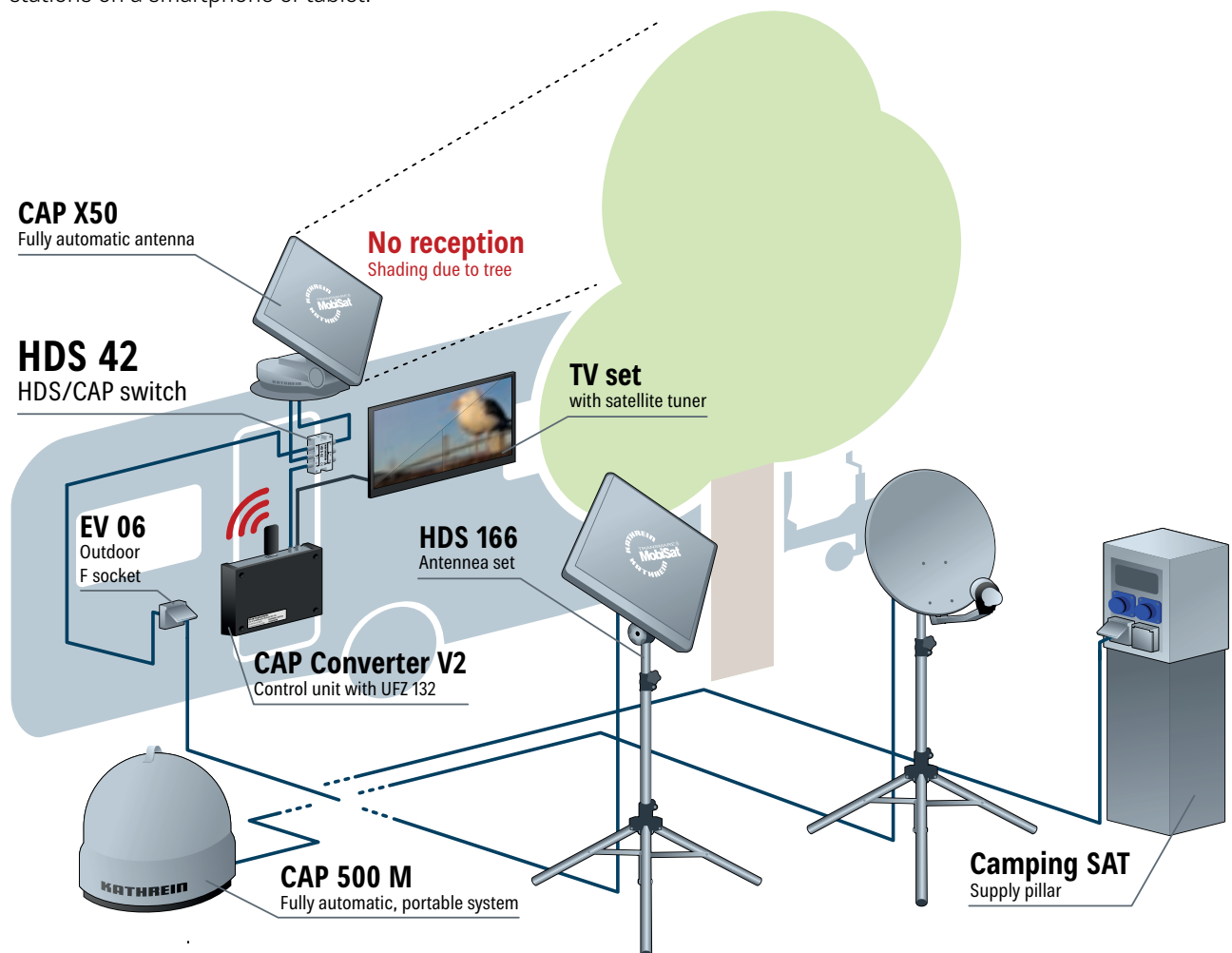
The HDS 42 master/slave changeover switch was developed for customers who have an offset antenna in addition to a fully automatic antenna, or who want to make use of a SAT signal available at the location.

The HDS 42 connects the two systems and automatically detects which system is currently receiving a signal. The highlight of this solution is that there is no need to change over the cables.

As the CAP converter again acts as the central unit, the free CAPcontrol app can be used across both reception paths. You can use the app to also view freely receivable stations on a smartphone or tablet.



* KATHREIN Digital Systems GmbH recommended retail price

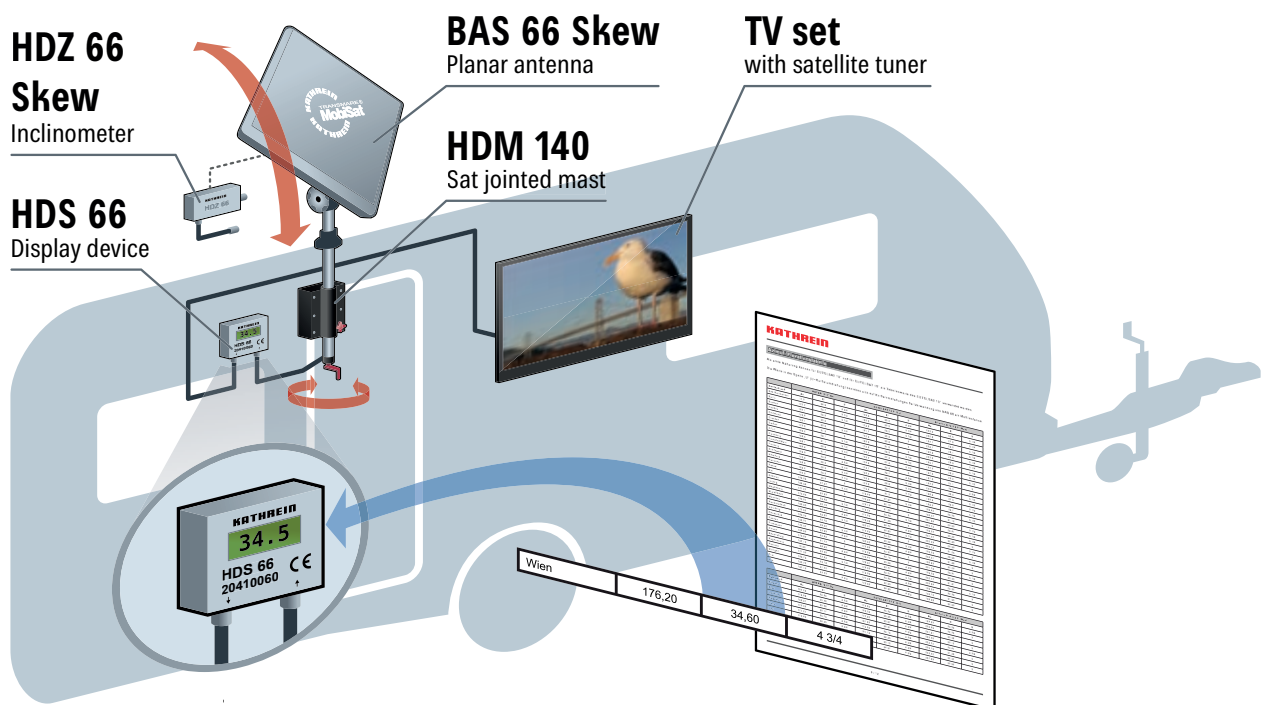


> Display unit HDS 66

- Displays the actual elevation from the HDZ 60 or HDZ 66 elevation indicator
- The display backlighting switches off automatically if the elevation does not change (energy-saving mode)
- The display backlighting switches on automatically when the elevation is changed
- Easy wall mounting



Alignment of the planar antenna with HDS 66



Technical data

Type	CAP converter V2
Order no.	204500001
Sat IF band [MHz]	950–2150
Input level range [dB μ V]	44–83
Modulation, FEC, demultiplexer	DVB-S(2)
Input data rate [MSymb/s]	2–45 (30 for DVB-S2/8PSK)
Supply voltage (car battery) [V]	10.5–30.0
Power consumption at 230V (max./typ. operation/stand-by) [W]	14/12/0.2
LNB supply (horiz./vert.) [V/mA]	14/18; max. 400
Antenna	1 \times F socket
TV/STB	1 \times F socket
Control signals supported (TV input)	DiSEqC™1.0/22 kHz; 14/18 V
USB	1 \times 2.0
Ethernet	1 \times RJ45
Control unit	1 \times RJ12
Permissible ambient temperature [°C]	-10 to +45
Weight net/gross [kg]	0.5/0.65
Dimensions of device/packaging (W x H x D) [mm]	227 \times 38 \times 172/260 \times 90 \times 206

Type	UFZ 132
Order no.	204500005
Standard	IEEE 802.11ac/a/b/g/ng
Port	USB 2.0
Data rates [Mbps]	11b: 1/2/5.5/11
Data rates [Mbps]	11g: 6/9/12/24/36/48/54
Data rates [Mbps]	11n: up to 300
Operating temperature [°C]	-20 to +70
Dimensions of device/packaging (W x H x D) [mm]	29.3 \times 7.5 \times 15/95 \times 147 \times 15
Weight [kg] net/gross	0.02/0.05

Type	BAS 66 Skew	BAS 65
Order no.	2000000001	20010032
Application	Mobile use	Stationary use
Installation option	HDM 140, 141, 143	Wall, mast, boom, flat surface
Reception range [GHz]	Switchable: 10.70–11.70 (0 kHz) 11.70–12.75 (22 kHz)	
Polarisation	Switchable: vertical (14 V), horizontal (18 V)	
Gain [dB]	> 55	
Half-power beam width [°] ¹⁾	Typical < 3	
LNB	2 switchable outputs	
Output frequency [MHz]	950–1950/1100–2150	
Oscillator frequency (L.O.) [GHz]	9.75/10.6	
Supply voltage LNB [V]	Vertical: 11.5–14.0 – horizontal: 16.0–19.0	
Max. power consumption [mA]	220	
Wind load [N] ²⁾	240	
Mast clamping range [mm]	–	38–50
Setting range, elevation [°]	0–90 (HDM 14x)	0–50
Setting range, azimuth [°]	360	± 65 (wall mounting), 360 (mast installation)
Dimensions net/gross [mm]	500 × 500 × 109 (without support)/600 × 600 × 200	500 × 500 × 121 (without support)/600 × 600 × 200
Weight net/gross [kg]	5.9/7.5	6.5/8.5

¹⁾ At mid-band ²⁾ At a dynamic pressure of 800 N/m² in accordance with EN 60728-11

Type	CAP 850 GPS HDP 850 GPS	CAP 750 GPS HDP 750 GPS	CAP 650 GPS HDP 650 GPS
Order no.	203500001 204500003	20310056 20410084	20310055 20410083
Approx. diameter of parabolic reflector [cm]	85	60	–
Space required – radius/height [cm]	90.8/98.8	80.7/84	88/70
LNB	2 switchable outputs: V/H (14/18 V) Low/High (0/22 kHz)		
Supply voltage LNB [V]	Vertical: 11.5-14 – horizontal: 16–19		
Input frequency [GHz]	10.70–12.75		
Output frequency [MHz]	950–1950/1100–2150		
Oscillator frequency (L.O.) [GHz]	9.75/10.60		
Supply voltage (car battery) [V]	10.5–15.5		
Current consumption from the vehicle's 12-V supply [A]	Typical 3		
Current consumption from the receiver [mA]	Typical 160		
Setting range: elevation/azimuth/skew [°]	0–65/370/± 45	0-75/370/± 45	0-80/370/± 15
Weight of the turntable with parabolic reflector/planar antenna [kg]	11.8/–	9.7/–	–/14.5
Packaging dimensions (W x H x D) [mm]	934 × 985 × 384	620 × 815 × 268	599 × 582 × 373
Weight net/gross [kg]	15.7/21.7	13.3/17.2	17.2/22.35

Type	CAP 500M CAP 500 Plus	
Order no.	203500003 203500004	
Input frequency [GHz]	10.7–12.75	
Polarisation	horizontal/vertical	
Antenna gain [dBi]	31.0	
Min. EIRP [dbW]	51	
Typ. satellite search time [s]	90	
LNB outputs	1	
LNB output frequency [MHz]	950–2150	
Supply voltage [V]	13–18	
Power consumption [W]	5.4 (during the search process)	
L.O. Frequency [V DC]	9.75/10.6	
Dimensions net/gross [mm]	450 × 450 × 440/535 × 535 × 495	
Weight net/gross [kg]	4.7/8.0	5.4/9.0

Type	CTS SL-32 DSBAI+K	CTS SL-27 DSBAI+K	CTS SL-24 DSBAI+K	CTS SL-22 DSBAI+K
Order no.	204500010	204500009	204500008	204500007
Screen size [cm (")]	80 (32")	68.5 (27")	60 (24")	55 (22")
alphatronicsView wide-angle LED display 178°/178°	E LED display			
Picture format	16:9 wide-screen			
Resolution	1920 × 1080 full HD			
Contrast ratio	3000:1	1000:1		
Brightness value	250 cd/m ²	230 cd/m ²	250 cd/m ²	300 cd/m ²
Response time [ms]	< 5			
Viewing angle [H, V]	178, 178			
Tuner	PAL B/G, NTSC, SECAM			
Sound – music output [W]	2 × 5			
Power supply unit (external) [AC,DC]	100-240-V AC, 12 DC			
Dimensions (W × H × D) with stand/ without stand/gross [mm]	732 × 476 × 213/ 732 × 437 × 61/ 816 × 520 × 143	622 × 408 × 175/ 622 × 376 × 55/ 680 × 445 × 125	552 × 370 × 154/ 552 × 340 × 54/ 630 × 405 × 118	503 × 343 × 154/ 503 × 312 × 53/ 580 × 375 × 11
Weight with stand/without stand/gross [kg]	6.75/6.7/8.8	5.2/4.7/6.7	4.2/3.9/5.7	3.7/3.4/5
Energy efficiency class	F			
Power consumption [kWh/1000h]	32/26/22/20			
Housing colour	Brushed anthracite			

Type	HDS 166	HDS 166 plus
Order no.	20310052	2030000002
Dimensions of the tripod stand (height, stand diameter, tube diameter) [mm]	1500 max., 1200 max., 35	
Dimensions of the BAS 66 Skew antenna (W × H × D) [mm]	495 × 495 × 120	
Weight of the tripod stand [kg]	approx. 2.4	
Weight of the BAS 66 Skew with adapter joint	approx. 6.4	
Weight of the set (net/gross) [kg]	13.8/15.1	
Packaging dimensions (W × H × D) [mm]	177 × 792 × 1030	

Type	BZD 30	BZD 32	BZD 40
Order no.	20710002	20710013	20710005
Reception range [MHz]	174–230/470–790	174–230/470–790	174–230/470–862
Figure of merit [dB/K] ¹⁾	Typical -28.5	Typical -28.4	Typical -32
Gain [dB]	B III: 18, B IV/V: 15	B III: 18, B IV/V: 15	B III: 18, B IV/V: 15
Max. output level [dBμV] ²⁾	Typical 95	Typical 95	95
Permissible remote power feed [V]	5	5	5–25
Dimensions [mm]	140 × 195	140 × 195	204 × 196 × 71 ³⁾
Packaging unit/weight [pc./kg]	1 (10)/0.5	1 (10)/0.5	1 (10)/1.23
Single pack dimensions [mm]	245 × 160 × 70	245 × 160 × 70	250 × 210 × 80

¹⁾ Bandwidth 8 MHz, Tu 290 K, connection cable a = 3.5 dB, receiver LF = 7 dB @ 560 MHz

²⁾ Measured at the antenna output in accordance with EN 60728-5 for 60 dB intermodulation distance (2 transmitters – 3rd order)

³⁾ With bracket

Type	CAR 150 WiFi Duo / CAR 160 WiFi Duo 5G MIMO Router	
Antenna connections	2 × SMA for LTE/2 × RP-SMA for WLAN/1 × SMA for GPS	
Ethernet ports	3 × LAN, 1 × WAN	
Other ports	1 × USB host, 1 × microSD	
Mobile telephony standards	4G/LTE (cat. 4), 3G, 2G	
WLAN standard	IEEE 802.11b/g/n	
WiFi security	WPA2-PSK	
Input voltage range [V]	9–30	
Typical current consumption [mA]	170	
Typical power consumption [W]	2	
Permissible ambient temperature [°C]	-40 to +75	
Dimensions (W × H × D) [mm]	109 × 50 × 103	
Weight [kg]	0.295	
Type	CAR 150 WiFi Duo antenna	CAR 160 WiFi Duo 5G MIMO black/white
GNSS		
Frequency range [MHz]	1575.42–1610	
Polarisation	RHCP	
LNA gain [dB]	28 ±2	
Impedance [Ω]	50	
Ports	SMA connector	
LTE		
Frequency range [MHz]	698-960/1710-2690	698-960/1710-2690/3400-3800
Polarisation	Linear	
Gain [dBi]	3	
Impedance [Ω]	50	
Ports	2 × SMA connectors	
WiFi		
Frequency range [MHz]	2400–2483.5/4900–5825	
Polarisation	Linear	
Gain [dBi]	2	
Impedance [Ω]	50	
Ports	2 × RP-SMA connectors	
Mechanical data		
Protection class	IP67	
Weight [kg]	approx. 0.55	
Dimensions (W × H × D) [mm]	∅ 110 × 55	

Type	DAB+ 1 mini	DAB+ 10 tower	DAB+ 100 highline
Display	OLED display	2.4 inch colour display	3.2 inch colour display
Frequency range	VHF 87.5–108 MHz		
	DAB+ 174.928–239.200 MHz		
Antenna system	Dipole antenna 3.5 mm jack input	Integrated dual band WiFi antenna, DAB/FM telescopic antenna	Dual band WiFi antenna, DAB/FM telescopic antenna, F socket
Favourites memory	10 DAB+, 10 FM	30 memory slots (10 Internet radio, 10 DAB+, 10 FM)	
RMS output power	1.6 W	7 W	2 × 7 W
Audio equaliser	–	Flat/Jazz/Rock/Movie/Classic/Pop/News/My EQ	
AUX input	3.5 mm stereo		
Headphone socket	–	3.5 mm stereo	
Optical digital output	–	–	S/PDIF stereo
Wired Ethernet	–	–	10/100 MBit/s RJ45 port
WiFi to IEEE 802.11a/b/g/n	–	2412–2472 MHz, 5180–5240 MHz	
Bluetooth specifications	Bluetooth® 4.1	Bluetooth® 4.0	Bluetooth® 4.0
Supported profile	A2DP		
Bluetooth audio CODEC	SBC	aptX, SBC and AAC	
Playback formats	–	Compatible with MP3, AAC+ and WMA	
Recording function	–	–	MP3 recording on a USB stick and SD card
CD playback function	–	–	CD player WMA and MP3
Internet streaming	–	UPnP/DMR music streaming (DLNA 1.5)	
Streaming providers	–	Spotify, Deezer, Tidal, Napster, Qobuz	
Sound quality improvement	–	Qualcomm® aptX™ audio	
Sleep timer	Yes		
Alarm clock function	–	Yes	
Battery/rechargeable battery	Integral rechargeable battery	Battery operation and rechargeable battery operation	–
	Rechargeable lithium-ion battery, 2600 mAh	6 × AA batteries can be changed over to NiMH rechargeable batteries with recharge function	–
General			
Power supply/charging port	Micro-USB port 5 V 1 A	External power supply unit (supplied): 240 V/AC 50/60 Hz 1.0 A / 12 V/DC 1.5 A	Internal power supply unit: 240 V/AC 50/60 Hz 1.5 A / 12 V/DC 1.5 A
Charging current	500 mA		
Operating temperature	0°C to +35°C	0°C to +40°C	
Remote control	–	–	2 × AAA batteries
Supporting app from Android & Apple	–	Connection to the UNDOK™ app	
Dimensions (W × H × D) [mm]	116 × 73.5 × 65	134 × 216 × 136	365 × 122 × 252
Weight net/gross [kg]	0.39/0.77	1.6/1.95	4.1/5.96
Packaging dimensions (W × H × D) [mm]	168 × 80 × 155	190 × 325 × 190	450 × 225 × 340

Advice and service

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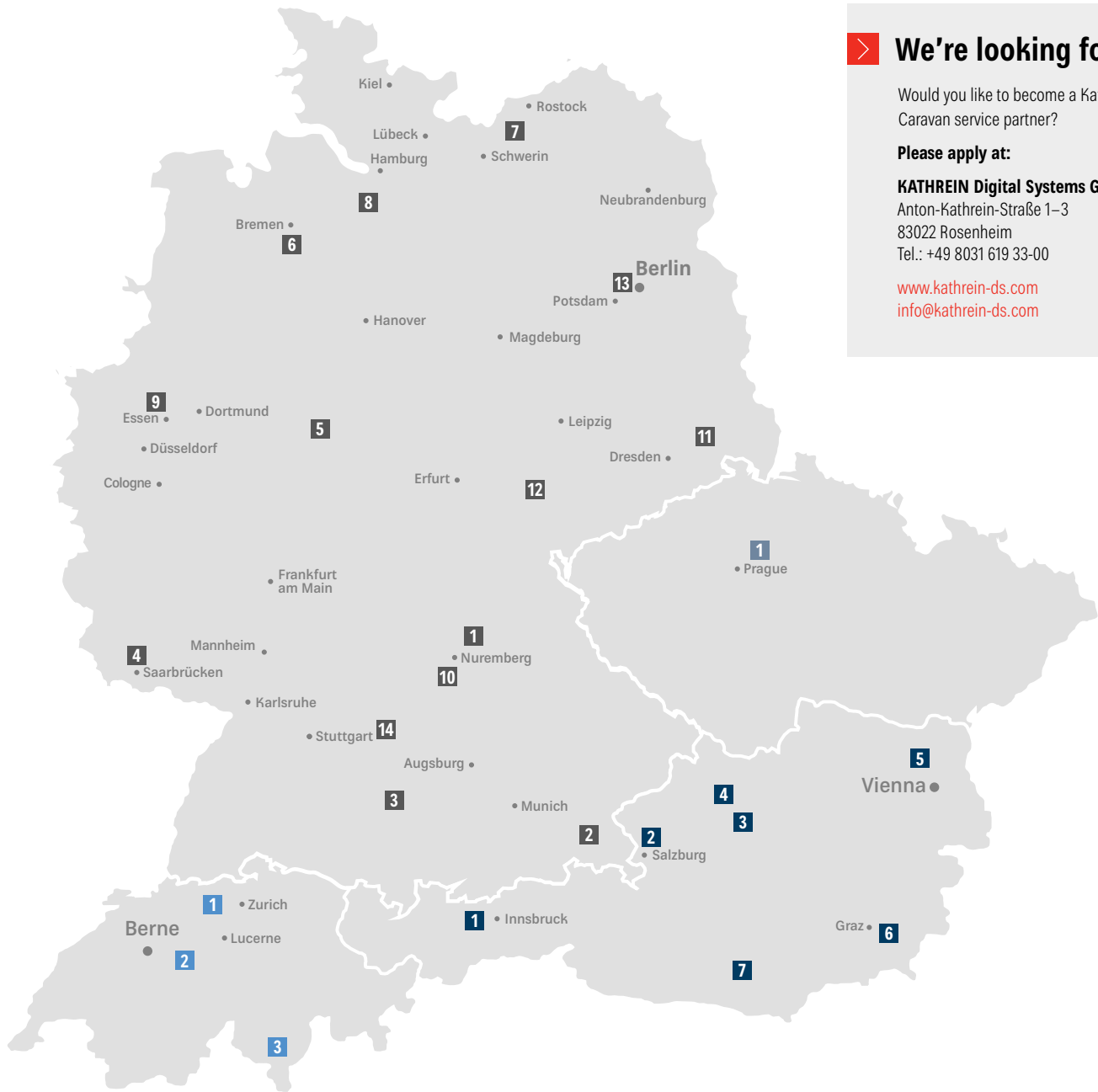
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See <https://www.kathrein-ds.com/en/support/customer-support/> for further information on service and support





Our award-winning DAB+ radio receivers

> DAB+ 1 mini

When you buy the DAB+ 1 mini you acquire a small portable FM/DAB+ radio with excellent sound quality. Additionally equipped with Bluetooth for wireless audio streaming, it leaves nothing to be desired for streaming from a mobile phone on to the radio. An integrated rechargeable battery, an OLED display and an antenna socket for an external dipole antenna perfectly complement the features of the smallest member of our DAB+ range. The DAB+ 1 mini is available in four housing colours – classic in white or silver, or light or dark genuine wood finish.

Features

- DAB+ and FM
- Bluetooth for audio streaming
- OLED display showing DAB service and information
- Integral rechargeable battery
- Including an antenna cable (dipole antenna) (3.5-mm jack cable) and USB connection cable (USB micro) for charging (5 V/1 A)

Available in the following colours:



Dark wood



Light wood



White



Silver



Actual size shown



- Digital sound quality
- Additional multi-media services
- Streaming via Bluetooth

> DAB+ 10 tower

The DAB+ 10 tower is a modern, portable FM/DAB+/Internet radio. As well as Bluetooth for wireless audio streaming, our tower radio is equipped with WLAN and is thus enabled to receive Deezer, Tidal, Napster, Qobuz and Spotify Connect together with Internet radio. Of course, the tower offers even more features such as an alarm clock, sleep timer, pairing by NFC or, for instance, the ability to control it using the UNDOK™ app. With an integral battery/rechargeable battery charging slot (switchable), there's nothing to stop you using the radio far away from a power socket.

Features

- Internet radio/DAB+/VHF-RDS
- Deezer, Tidal, Napster, Qobuz and Spotify Connect
- Bluetooth for audio streaming
- UNDOK™ app for controlling playback
- UPnP/DMR music transmission
- Backlit 2.4" colour display
- Output power: 1 × 10 W (RMS)
- Power supply unit DC 12 V/1.5 A with switchable charger for rechargeable batteries or standard batteries (rechargeable batteries/standard batteries not supplied)



Your specialist trade partner.

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