

Camping & Caravan 2021

At Home on the Road



KATHREIN
Digital Systems GmbH

Who we are and **what** we stand for

We ensure the best possible radio and TV reception

KATHREIN Digital Systems is the market leader for digital satellite, terrestrial, cable or IP reception and signal distribution in buildings and caravans. Our high-quality and reliable product portfolio for modern TV and radio reception is constantly being expanded to include innovative solutions in the field of building technology.

Thanks to extensive know-how in development and unsurpassed quality standards in production, our solutions and systems are among the best in their class. High-quality satellite reception systems in conjunction with sophisti-

cated solutions for signal distribution – whether in single-family homes or in large building complexes – bring the signals to the receiving equipment in best HD quality. New technologies such as SAT>IP, optical SAT distribution or modular headend technology for hotel TV close the gap between traditional signal distribution and modern optical fibre and network technology.

KATHREIN Digital Systems' advanced solutions are also the best choice for mobile TV reception in caravans and mobile homes.

Find out more about us at www.kathrein-ds.com

Our awards:



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Our Benefits at a Glance (HDP 650/750/850 GPS)

➤ **There are some very good reasons for choosing a fully automatic Kathrein antenna**

1

GPS in all fully automatic antennas

Due to the integrated GPS system, the search time is reduced to approx. 1 minute.



2

3 years warranty

We optimise our products continuously and are so confident in their quality that we give a three years warranty on all HDP turntables



3

Quality made in Germany

All Kathrein turntables are developed and made in Germany. The use of high-quality materials ensures a long service life.



4

Aerodynamic design

The aerodynamic design of our fully automatic antennas HDP 750 and 850 reduces noise emission inside the vehicle to an absolute minimum.



5

CAPcontrol app

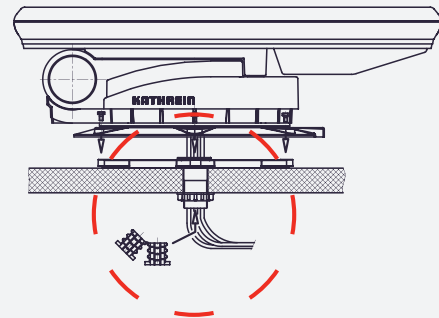
App for controlling the automatic antennas, streaming live TV to mobile devices (in conjunction with the UFZ 131/132), detection of the HDZ 60/66/66 Skew inclinometer, integrated sat finder and voice assistant for aligning the HDS 166 plus antenna set, for example – all conveniently via smartphone/ tablet.



6

Cable feedthrough

The automatic Kathrein antennas provide two options for running the cables into the vehicle interior: out of the side of the antenna or directly from underneath the antenna.



7

Automatic update

Every month Kathrein engineers check whether the search transponder is still up to date and provide a download via satellite. The automatic antennas regularly check whether a new update is available and install it automatically if necessary.



8

CI-BUS

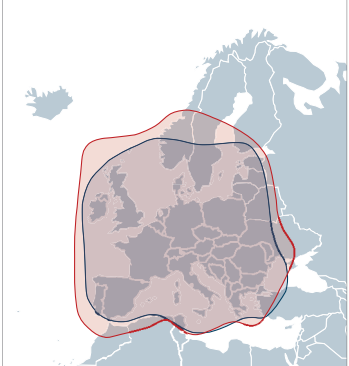

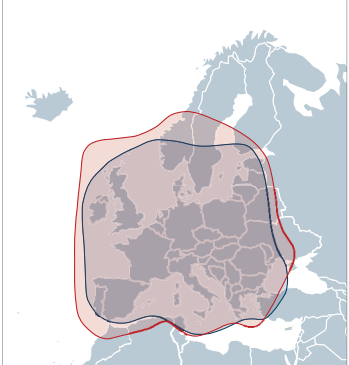

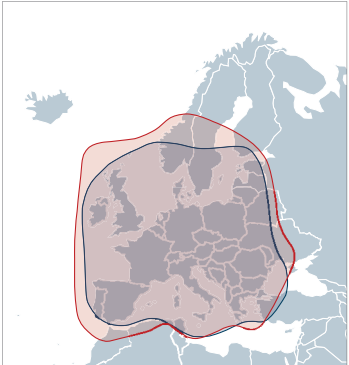

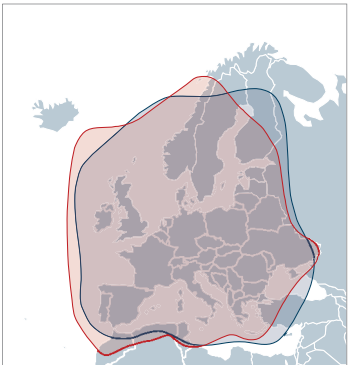

By using an additional adapter, the fully automatic antennas become CI-BUS compatible and can therefore be easily integrated into CI-BUS systems.



Satellite Reception Overview

	Footprint		Features	Page
Astra 19.2° East Hotbird 13° East			<p>HDP 850 GPS</p> <ul style="list-style-type: none"> Optimised installation height: 18 cm 85 cm parabolic reflector ensures large reception range Twin LNB for connecting a second receiver or TV set Automatic update <p>Order no. 204500003</p>	10
			<p>HDP 750 GPS</p> <ul style="list-style-type: none"> Optimised weight < 10 kg Optimised aerodynamics (low air resistance) Twin LNB for connecting a second receiver or TV set Automatic update <p>Order no. 20310056</p>	12
			<p>HDP 650 GPS</p> <ul style="list-style-type: none"> Compact design Installation height: 21 cm Twin LNB for connecting a second receiver or TV set Automatic update <p>Order no. 20310055</p>	14
			<p>CAP 500M CAP 500M plus</p> <ul style="list-style-type: none"> All-in-one package for fully automatic satellite reception (Astra 19.2° East) Light and portable for mobile and flexible use No additional control unit required Streaming of TV and radio channels (plus) <p>Order no. 203500003 203500004</p>	16

Astra 19.2° East ■ Hotbird 13° East

Footprint		Features	Page
		<p>HDS 166 HDS 166 plus</p> <ul style="list-style-type: none"> ▪ Cost-effective, space-saving alternative to fully automatic satellite antennas ▪ Twin LNB for connecting a second receiver or TV set ▪ Voice assistant helps with the alignment (plus) ▪ Streaming of TV and radio channels (plus) <p>Order no. 20310052 2030000002</p>	20
		<p>BAS 66 Skew</p> <ul style="list-style-type: none"> ▪ For use on stationary motorhomes, caravans or HGVs ▪ For mounting on HDM 14x jointed masts ▪ Twin LNB for connecting a second receiver or TV set ▪ With skew adapter plate for optimised reception at the fringe area of the satellite footprint <p>Order no. 2000000001</p>	24
		<p>BAS 65</p> <ul style="list-style-type: none"> ▪ For mounting on walls, masts, brackets and on flat surfaces ▪ Twin LNB for connecting a second receiver or TV set ▪ Including mounting support for easy antenna alignment <p>Order no. 20010032</p>	25
		<p>KEA 650</p> <ul style="list-style-type: none"> ▪ Folding LNB arm made of aluminium ▪ Aluminium reflector, powder-coated ▪ Rear support, mast and clamps of galvanised sheet steel (fully assembled) <p>Order no. 20010048</p>	25

Fully Automatic Satellite Antennas

> Perfect satellite reception



CAP 500M



HDP 850 GPS



HDP 750 GPS



HDP 650 GPS

Solution 1: Customised satellite TV packages

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



Caravan TV systems – the One-Cable-Solution by Kathrein and alphatronics

- Control of the antenna directly via the TV set
- Only one coax cable between the TV set and the antenna
- Minimum installation effort
- Live TV streaming to mobile devices (smart-phones, tablets) with the UFZ 131/132 (optionally available)
- LED panels are 100% free of dead pixels
- Made in Germany

Solution 2: CAP all-in-one package

Recommended if a TV set with satellite tuner is already available.

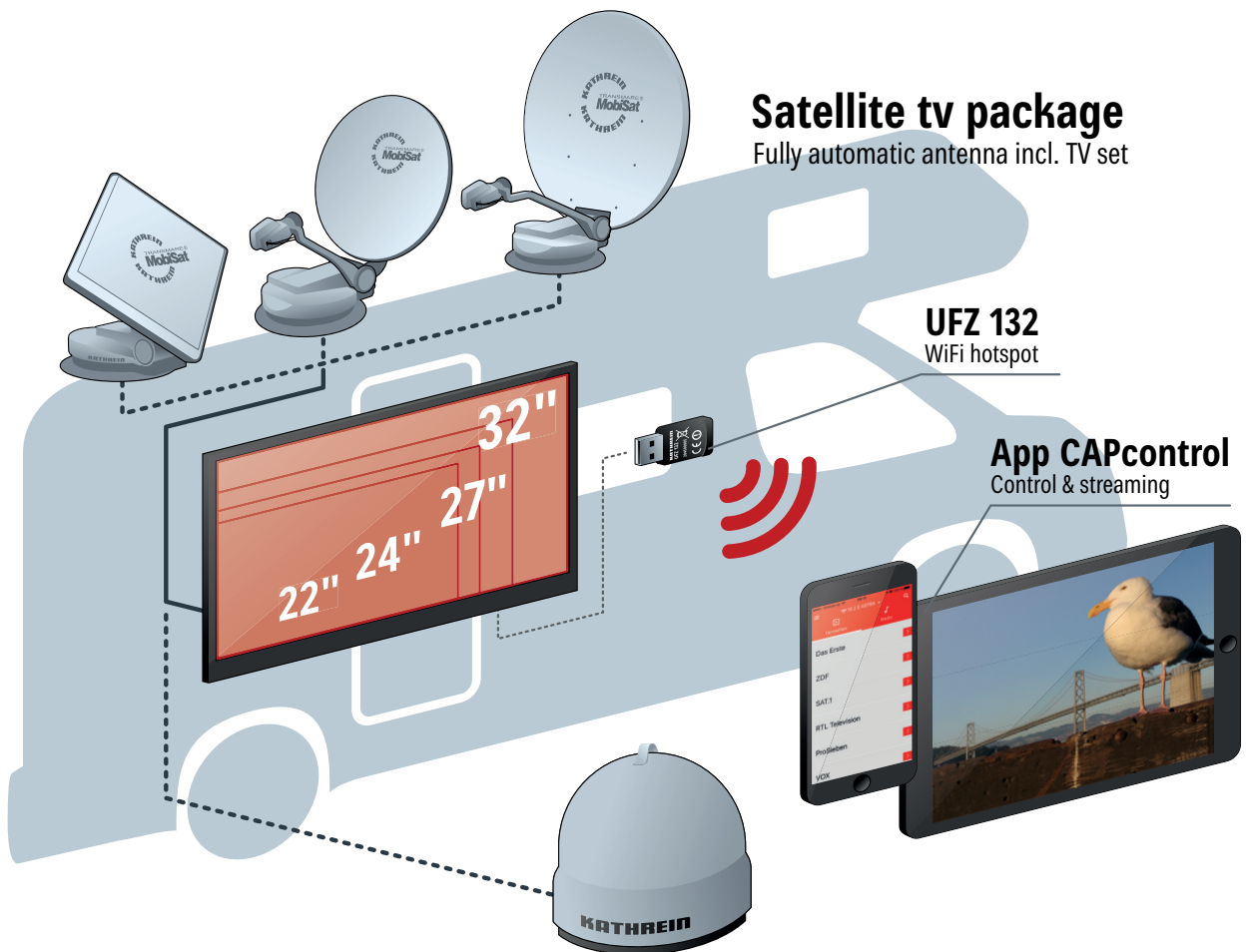
Includes: Fully automatic antenna, CAP converter



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

- Receiver-independent antenna
- Compatible with any TV set/receiver with satellite tuner
- Live TV streaming to mobile devices (smart-phones, tablets) with the UFZ 131/132 (optionally available)

➤ **The One-Cable-Solution by Kathrein and alphantronics**
 Customised satellite TV packages



Satellite tv package
 Fully automatic antenna incl. TV set

UFZ 132
 WiFi hotspot

App CAPcontrol
 Control & streaming

For your customised satellite TV package, select one of our fully automatic satellite antennas and the desired TV set from alphantronics. It provides the combined know-how from both companies in one intelligent reception concept.

The fully automatic satellite antennas are controlled via the alphantronics TV set. A separate control unit or receiver

is not required. This means that only two units are required for TV and radio reception in a caravan or motorhome (turntable and TV set). Kathrein and alphantronics attached great importance to ensuring that the antenna and the TV set can be easily connected with as little cabling effort as possible. Control of the antenna and transfer of the satellite signals to the TV set both run over the same coaxial cable.

> The large version HDP 850 GPS

The HDP 850 GPS is based on the HDP 750 GPS, but has a newly designed support arm and an 85 cm parabolic reflector. By increasing the size of the parabolic reflector, the reception reserve and the operating radius of the system have been increased. The use of GPS permits quick alignment (approx. 1 minute) of the HDP 850 at any new location. Due to a revision of the mechanical design, the antenna now has a height of only 18 cm. Its aerodynamic shape allows a vehicle speed of up to 130 km/h (with the antenna lowered). When used with the CAPcontrol app and the UFZ 131 or 132 USB/Wi-Fi adapter, the HDP 850 also enables the streaming of live TV to mobile devices (smartphone/tablet).

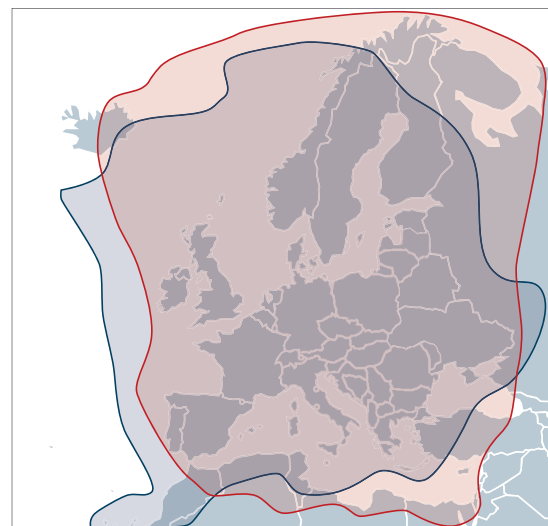
Main features

- Optimised installation height: 18 cm
- Streaming of live TV by means of UFZ 131/132 USB/Wi-Fi adapter and free CAPcontrol app
- Software update via satellite
- Large reception area due to high-gain 85 cm parabolic reflector
- Twin LNB for connecting a second receiver or TV set
- Automatic alignment with other satellites when changing channels

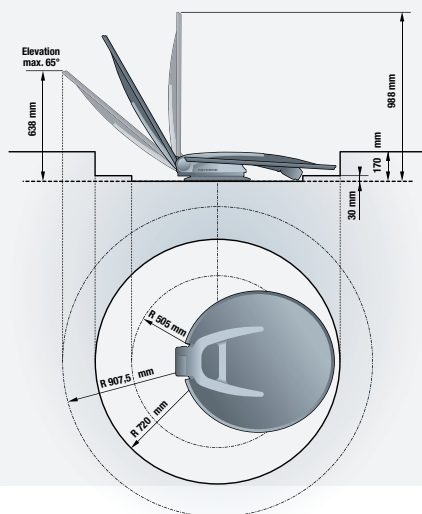


* Manufacturer's recommended retail price

Footprint



■ Astra 19.2° East ■ Hotbird 13° East



HDP 850 GPS – satellite TV packages

Solution 1

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



- Control of the antenna directly via the TV set
- Only one coax cable between the TV set and the antenna
- Only one remote control
- No additional control unit required
- Live TV streaming to mobile devices (smartphones, tablets) with the UFZ 131/132 (optionally available)

HDP 850 GPS, order no.: 204500003

RRP HDP only: € 1949.00

Order No. TV	Type	RRP CTS-TV	RRP Total HDP + CTS-TV
204500007	CTS SL-22 DSBAl+K	€ 699.00	€ 2648.00
204500008	CTS SL-24 DSBAl+K	€ 769.00	€ 2718.00
204500009	CTS SL-27 DSBAl+K	€ 849.00	€ 2798.00
204500010	CTS SL-32 DSBAl+K	€ 899.00	€ 2848.00

Solution 2

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



- Receiver-independent antenna
- Compatible with any TV set or receiver with satellite tuner
- Live TV streaming to mobile devices (smartphones, tablets) with the UFZ 131/132 (optionally available)

Name	Contents	Order No.	RRP (€)
CAP 850 GPS	HDP 850 GPS and CAP converter	203500001	€ 1999.00

Recommended accessories

- **HDS 50 (only for solution 2)**
External control unit for CAP x50 GPS
Order no. 20410070, RRP € 199.00
More details on page 32
- **UFZ 132**
USB/Wi-Fi adapter
Order no. 204500005, RRP € 40.00
More details on page 33

- **HDZ 100**
Roof gland
Order no. 20410032, RRP € 29.00
More details on page 32
- **HDS 42**
Master/slave switch
Order no. 2040000006, RRP € 59.00
More details on page 35

* Manufacturer's recommended retail price

> The light version
HDP 750 GPS

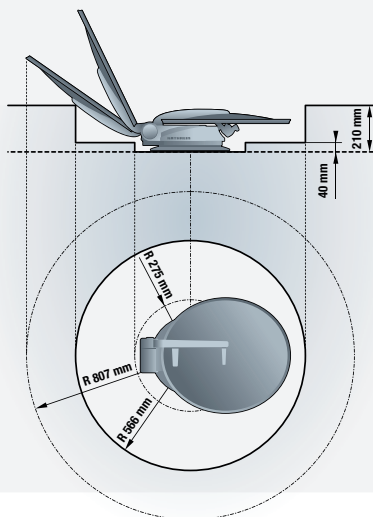
The use of a parabolic antenna increases the reception range compared to a planar antenna. What is more, it reduces the weight of the system considerably. A total weight of under 10 kg makes this antenna one of the lightest on the market. This antenna also features a twin LNB for connecting a second receiver. The use of GPS permits quick alignment (approx. 1 minute) of the HDP 750 GPS at any new location. The turntable plus the antenna have a height of only about 21 cm. The aerodynamic design allows a vehicle speed of up to 130 km/h (with the antenna lowered).

Main features

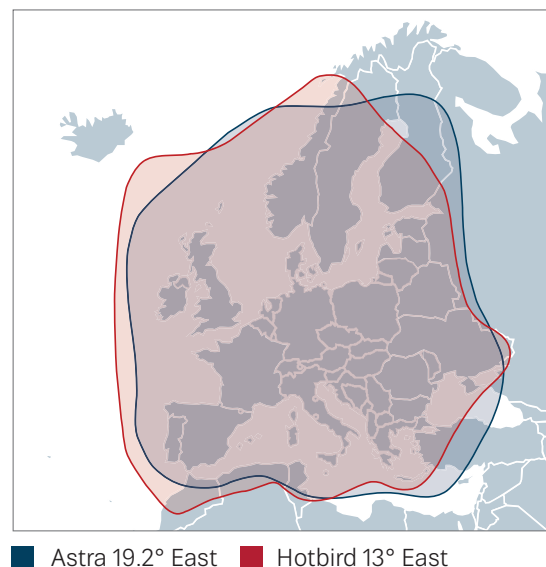
- Optimised weight: < 10 kg
- One of the lightest fully automatic turntables
- Optimised aerodynamics
 - Low air resistance
 - Low noise emission
- Connection of a second receiver or TV set



Space required



Footprint



HDP 750 GPS – satellite TV packages

Solution 1

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



- Control of the antenna directly via the TV set
- Only one coax cable between the TV set and the antenna
- Only one remote control
- No additional control unit required
- Live TV streaming to mobile devices (smartphones, tablets) with the UFZ 131/132 (optionally available)

HDP 750 GPS, order no.: 20410084

RRP HDP only: € 1699.00

Order No. TV	Type	RRP CTS-TV	RRP Total HDP + CTS-TV
204500007	CTS SL-22 DSBAl+K	€ 699.00	€ 2398.00
204500008	CTS SL-24 DSBAl+K	€ 769.00	€ 2468.00
204500009	CTS SL-27 DSBAl+K	€ 849.00	€ 2548.00
204500010	CTS SL-32 DSBAl+K	€ 899.00	€ 2598.00

Solution 2

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



- Receiver-independent antenna
- Compatible with any TV set or receiver with satellite tuner
- Live TV streaming to mobile devices (smartphones, tablets) with the UFZ 131/132 (optionally available)

Name	Contents	Order No.	RRP (€)
CAP 750 GPS	HDP 750 GPS and CAP converter	20310056	1749.00

Recommended accessories

▪ HDS 50 (only for solution 2)

External control unit for CAP x50 GPS

Order no. 20410070, RRP € 199.00

More details on page 32

▪ UFZ 132

USB/Wi-Fi adapter

Order no. 204500005, RRP € 40.00

More details on page 33

▪ HDZ 100

Roof gland

Order no. 20410032, RRP € 29.00

More details on page 32

▪ HDS 42

Master/slave switch

Order no. 2040000006, RRP € 59.00

More details on page 35

* Manufacturer's recommended retail price

> The compact version
HDP 650 GPS

The fully automatic HDP 650 GPS is equipped with a planar antenna. This ensures a compact design and minimises the required space. In addition to a twin LNB it features GPS for quick alignment of the antenna (approx. 1 minute).

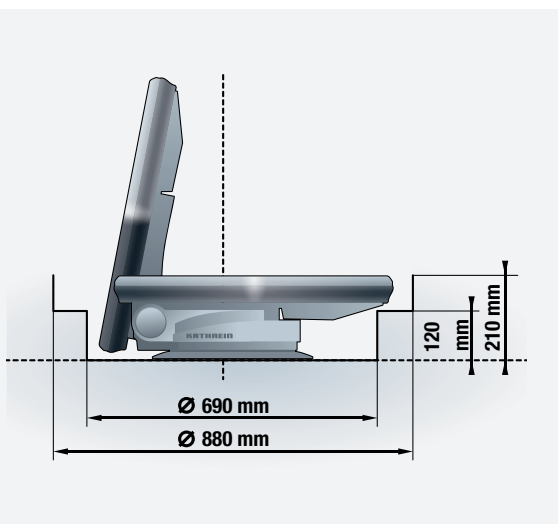
The turntable plus the antenna have a height of only about 21 cm. The aerodynamic design allows a vehicle speed of up to 130 km/h (with the antenna lowered).

Main features

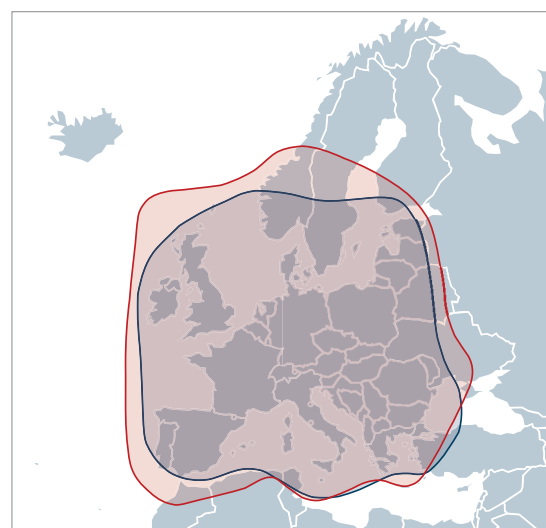
- Compact design
- Easy installation – only one cable for control and transmission of satellite signals necessary
- Connection of a second receiver or TV set



Space required



Footprint



■ Astra 19.2° East ■ Hotbird 13° East

HDP 650 GPS – satellite TV packages

Solution 1

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



- Control of the antenna directly via the TV set
- Only one coax cable between the TV set and the antenna
- Only one remote control
- No additional control unit required
- Live TV streaming to mobile devices (smartphones, tablets) with the UFZ 131/132 (optionally available)

HDP 650 GPS, order no.: 20410083

RRP HDP only: € 1799.00

Order No. TV	Type	RRP CTS-TV	RRP Total HDP + CTS-TV
204500007	CTS SL-22 DSBAI+K	€ 699.00	€ 2498.00
204500008	CTS SL-24 DSBAI+K	€ 769.00	€ 2568.00
204500009	CTS SL-27 DSBAI+K	€ 849.00	€ 2648.00
204500010	CTS SL-32 DSBAI+K	€ 899.00	€ 2698.00

Solution 2

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



- Receiver-independent antenna
- Compatible with any TV set or receiver with satellite tuner
- Live TV streaming to mobile devices (smartphones, tablets) with the UFZ 131/132 (optionally available)

Name	Contents	Order No.	RRP (€)
CAP 650 GPS	HDP 650 GPS and CAP converter	20310055	€ 1849.00

Recommended accessories

▪ HDS 50 (only for solution 2)

External control unit for CAP x50 GPS

Order no. 20410070, RRP € 199.00

More details on page 27

▪ UFZ 132

USB/Wi-Fi adapter

Order no. 204500005, RRP € 40.00

More details on page 28

▪ HDZ 100

Roof gland

Order no. 20410032, RRP € 29.00

More details on page 27

▪ HDS 42

Master/slave switch

Order no. 2040000006, RRP € 59.00

More details on page 30

> Portable antenna CAP 500M

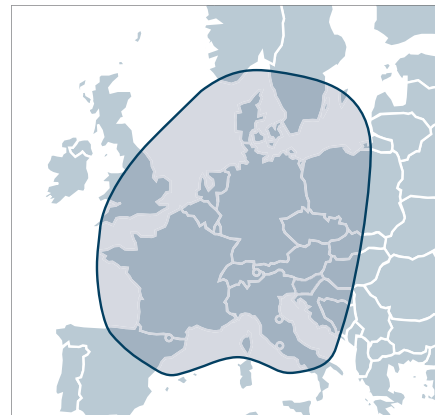
- All-in-one package for fully automatic reception of Astra 19.2° East
- Light and portable for mobile and flexible use
- Quick installation and TV reception typically within 90 seconds
- No additional control unit required
- Software update via Bluetooth
- Power supply directly via any TV or receiver with integrated satellite tuner
- No power consumption in standby mode
- Anti-theft protection



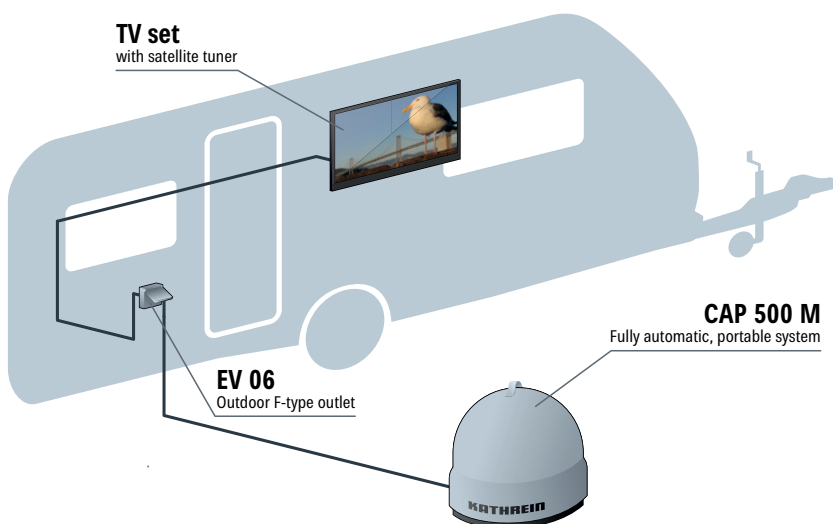
Scope of supply:

- Fully automatic satellite antenna
- 10 m coaxial cable
- Instruction manual/application notes

Footprint Astra 19.2° East



CAP 500M operated directly on the TV set



Portable antenna + streaming
CAP 500M plus

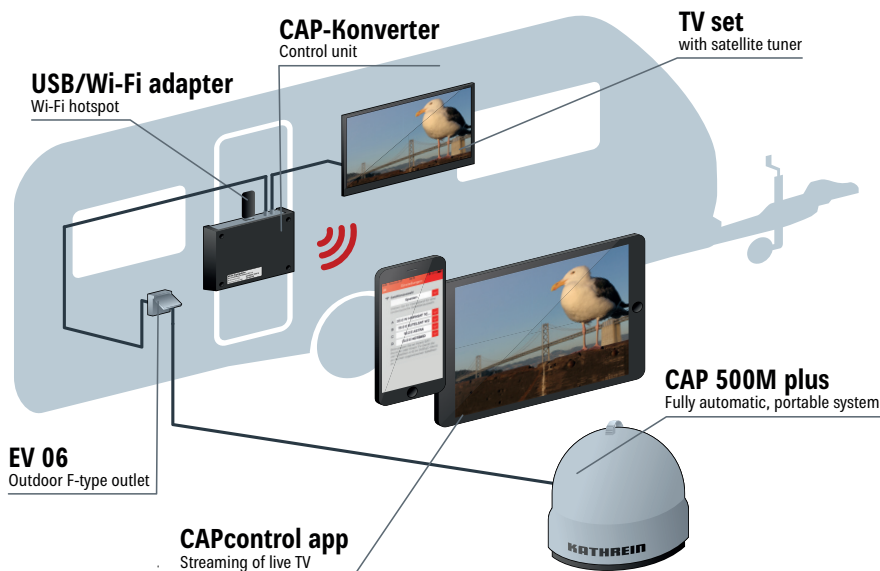
- Live streaming of TV and radio channels to mobile devices using the free CAPcontrol app
- All-in-one package for fully automatic reception of Astra 19.2° East
- Light and portable for mobile and flexible use
- Quick installation and TV reception typically within 90 seconds
- Software update via Bluetooth
- Power supply directly via the CAP converter
- Anti-theft protection

Scope of supply:

- Fully automatic satellite antenna
- 10 m coaxial cable
- Instruction manual/application notes
- Kathrein USB/Wi-Fi adapter
- CAP Converter



CAP 500M plus – streaming of live TV



You can install the CAPcontrol app right now:



> alphontrics TV sets CTS SL-xx

The SL+ line offers a plus in technology that will impress you.

It features, among other things, Bluetooth 4.2, the new standard for an even faster connection set-up, increased range and reduced power consumption.

A further highlight is the Basic Smart feature. Based on the Linux OS, an integrated browser is available for surfing the Internet. You can also choose from a selection of useful apps.

Another new feature is the 10-bit compression procedure for an even wider colour spectrum and radiant colours.

The new audio DSP technology provides a better sound experience. A new digital processor ensures faster access times to your favourite stations.

All "K" variants are equipped with an integrated control for the Kathrein HDPs/CAPs and are available exclusively from Kathrein.



- Kathrein control: One-Cable-Solution
- Audio DSP technology
- 2x HDMI
- Integrated alphontricsSound Bluetooth 5.0 module
- CI+ slot
- EPG
- Photo viewer
- 2x USB 2.0 port/media player
- DVD player integrated at the side (formats: 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)

Scope of supply:

- Remote control
- DVB-T antenna AN5
- Power supply unit
- YPbPr adapter
- AV adapter
- 12 V car cable
- Batteries
- Operating instructions

> Caravan TV systems at a glance

Caravan TV systems – One-Cable-Solution by Kathrein and alphatronics

Order No.	Type	RRP	Order No. TV	Type	RRP CTS-TV	RRP Total HDP + CTS-TV
203500003	CAP 500M	€ 949.00	204500007	CTS SL-22 DSBAI+K	€ 699.00	€ 1648.00
			204500008	CTS SL-24 DSBAI+K	€ 769.00	€ 1718.00
			204500009	CTS SL-27 DSBAI+K	€ 849.00	€ 1798.00
			204500010	CTS SL-32 DSBAI+K	€ 899.00	€ 1848.00
20410083	HDP 650 GPS	€ 1799.00	204500007	CTS SL-22 DSBAI+K	€ 699.00	€ 2498.00
			204500008	CTS SL-24 DSBAI+K	€ 769.00	€ 2568.00
			204500009	CTS SL-27 DSBAI+K	€ 849.00	€ 2648.00
			204500010	CTS SL-32 DSBAI+K	€ 899.00	€ 2698.00
20410084	HDP 750 GPS	€ 1699.00	204500007	CTS SL-22 DSBAI+K	€ 699.00	€ 2398.00
			204500008	CTS SL-24 DSBAI+K	€ 769.00	€ 2468.00
			204500009	CTS SL-27 DSBAI+K	€ 849.00	€ 2548.00
			204500010	CTS SL-32 DSBAI+K	€ 899.00	€ 2598.00
204500003	HDP 850 GPS	€ 1949.00	204500007	CTS SL-22 DSBAI+K	€ 699.00	€ 2648.00
			204500008	CTS SL-24 DSBAI+K	€ 769.00	€ 2718.00
			204500009	CTS SL-27 DSBAI+K	€ 849.00	€ 2798.00
			204500010	CTS SL-32 DSBAI+K	€ 899.00	€ 2848.00



TV sets from alphatronics are available in the following versions:

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



Dimensions TV sets

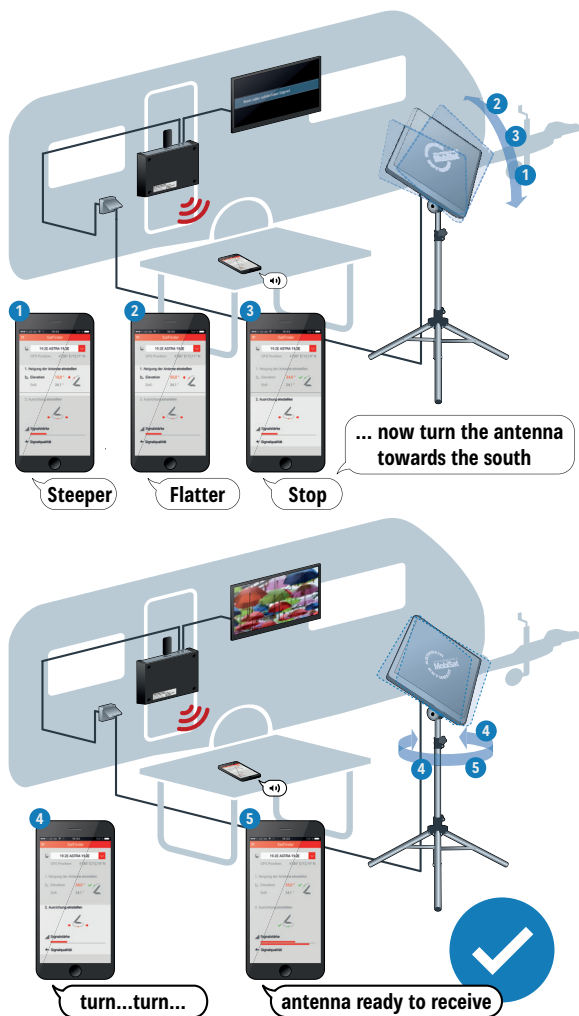
(W x H x D in mm; without stand):

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

Semi-automatic Satellite Antennas

> **Antenna Set HDS 166 plus 16** 2030000002

This antenna set is a cost-effective, space-saving alternative to fully automatic satellite antennas. Perfect if you don't have satellite reception directly at the vehicle, e.g. if shaded by trees, and want to set up the system at some distance from the vehicle. The supplied components and the revised CAPcontrol app (Android and iOS) interact perfectly with each other. Once all components are set up 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 motorhome, caravan or camper van.



HOW IT WORKS

- Voice assistant helps with the alignment
- Streaming of TV and radio channels to mobile devices
- 11 satellites pre-set
- A GPS-enabled smartphone/tablet is required for installation

Never before
has manual
alignment been
so easy

Scope of supply

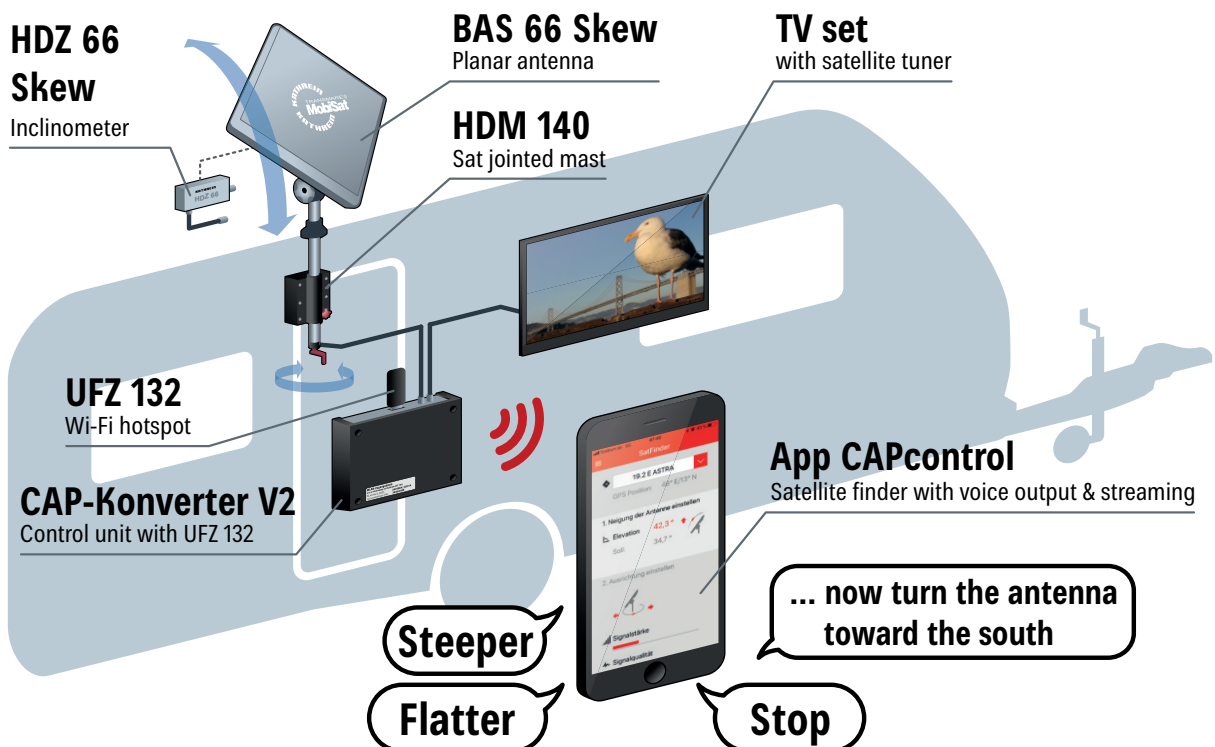
- BAS 66 planar antenna (with twin LNB)
- HDZ 66 inclinometer
- Tripod, adapter joint, incl. carry bags for tripod and antenna
- CAP converter V2 and UFZ 132 USB/Wi-Fi adapter
- 15 m coaxial cable

Recommended accessories

- EV 06 external socket | 218464
 - 12 V power supply unit | 1683660
 - Adapter cable | 197500004
- For connection to 230 V sockets (adapter cable is mandatory). Available from our CSS service and repair centre (Caravan- SAT-Service GmbH)

> All-in-one solution with HDM 140/HDM 141 jointed mast

The jointed masts allow optimal mounting and rapid alignment of the BAS 66 planar antenna from inside the vehicle.



RRP in €*
801.00

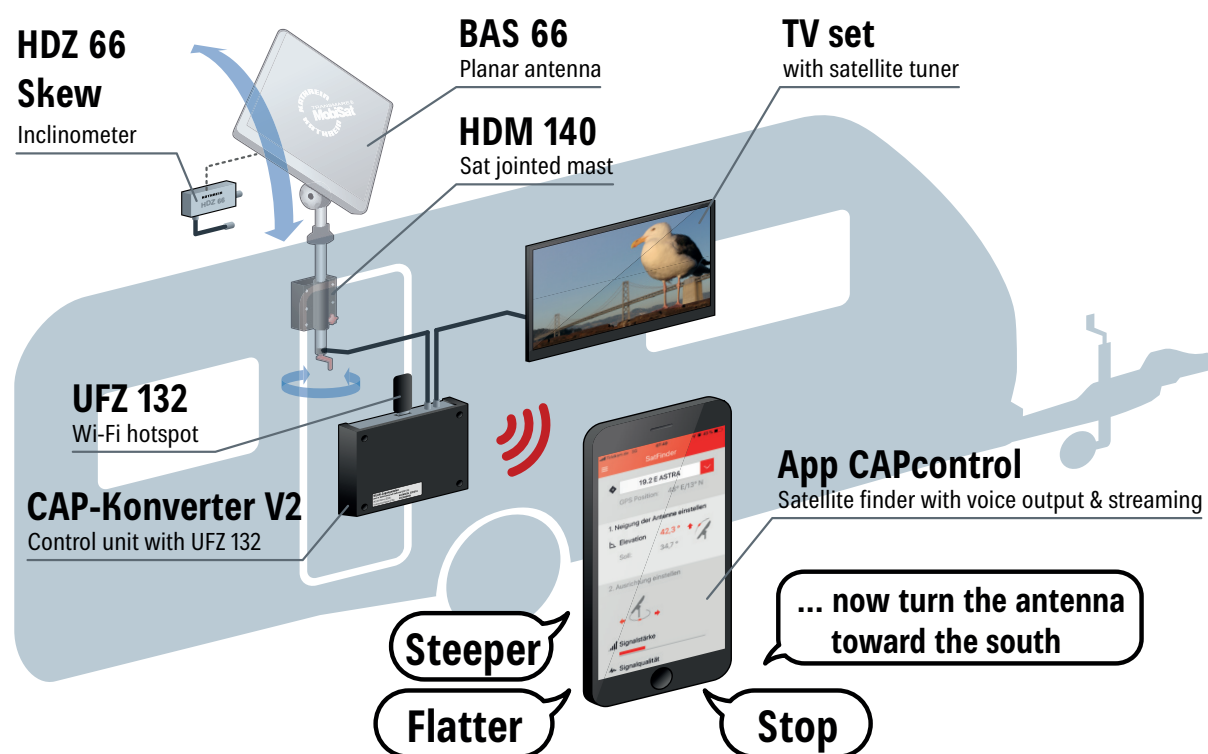
The HDM set includes:

Order no.	Product	Description	RRP in €*
200000001	BAS 66 Skew	Planar antenna with twin LNB and skew adapter plate; reception area: 10.7–12.75 GHz, suitable for HDM jointed mast	199.00
218456 or 218457	HDM 140 or HDM 141	HDM 140: twin jointed mast for BAS 66/BAS 66 Skew for caravan installation, 103 cm long HDM 141: twin jointed mast for BAS 66/BAS 66 Skew for caravan installation, 76.5 cm long (shorter version)	224.00
204500002	HDZ 66 Skew	Inclinometer: Required for easy alignment via app	99.00
204500001	CAP converter V2	Control unit: Required for easy alignment via app	239.00
204500005	UFZ 132	USB/Wi-Fi adapter: for wireless integration of suitable network-compatible Kathrein receivers, IEEE 802.11n, Wi-Fi hotspot	40.00
Total			801.00

* Manufacturer's recommended retail price

Extension set for existing jointed mast systems

The extension set allows the extension of a flat antenna already installed in the caravan (e.g. BAS 66 with HDM 140 jointed mast) in such a way that it can be aligned via app.



The extension set comprises:

Order no.	Product	Description	RRP (€)
204500002	HDZ 66 Skew	Inclinometer: Installation set for BAS 66/BAS 66 Skew	99.00
204500001	CAP converter V2	Control unit: Required for easy alignment via app	239.00
204500005	UFZ 132	USB/Wi-Fi adapter: for wireless integration of suitable network-compatible Kathrein receivers, IEEE 802.11n, Wi-Fi hotspot	40.00
Total			378.00

RRP in €*
378.00

* Manufacturer's recommended retail price

Manual Satellite Antennas

> Antenna set HDS 166

20310052

The HDS 166 is an antenna set for manual antenna alignment and satellite search. It includes a planar antenna, tripod, adapter joint, 15 m coax cable and a carry bag. This set is the perfect alternative to a fully automatic, permanently mounted antenna.

The BAS 66 Skew planar antenna can be easily set up and aligned with a satellite using a smartphone with compass app (depending on the smartphone and the operating system, the app might be pre-installed).

It only takes three easy steps to align the antenna:

- 1 Look up the setting values in the enclosed azimuth/elevation table
- 2 Start the compass app, place the smartphone on the planar antenna and set the elevation of the antenna
- 3 Determine the satellite position using a spirit level app and turn the antenna to that direction (e.g. Astra 19.2° E in the Munich area = 169.80°)



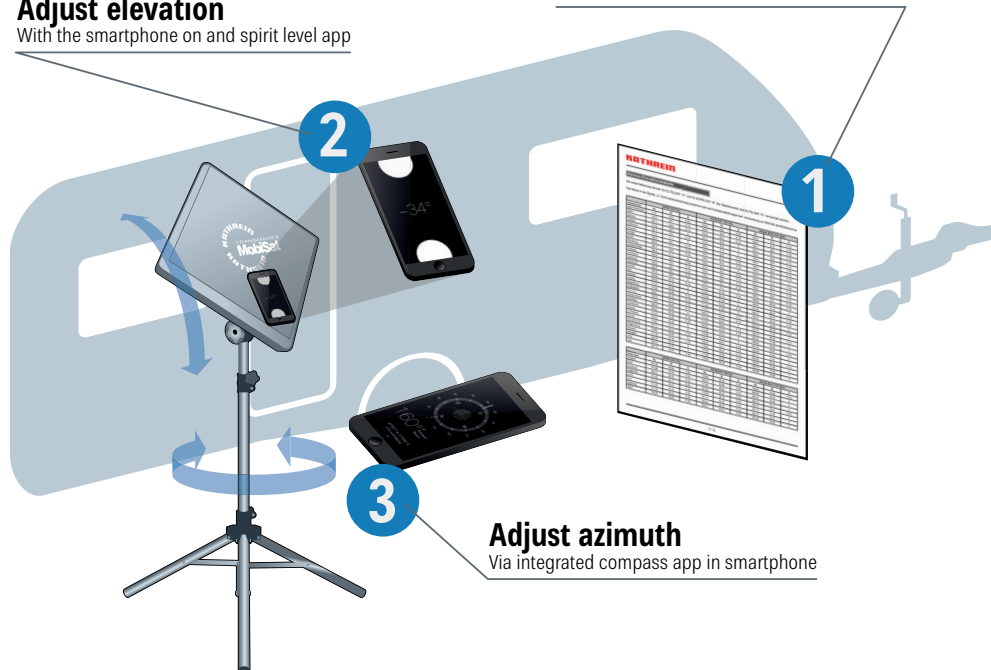
* Manufacturer's recommended retail price

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 antenna BAS 66 Skew

NEU

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

- For use on stationary motorhomes, caravans or HGVs
- For mounting on the HDM 14x jointed masts (details on page 29)
- With integrated twin LNB (two outputs)
- With skew adapter plate for optimised reception at the fringe area of the satellite footprint

Recommended accessories

- **HDM jointed masts (HDM 140/141/143)**
(details on page 29)
- **HDZ 66 Skew inclinometer**
RRP: € 99.00



> Inclinometer HDZ 66 Skew

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

- Installation set for the planar antennas BAS 66 and BAS 66 Skew
- Easy alignment of the antenna in combination with the UFS 940/UFS 946/CAP converter
- Installation with a few simple steps on the LNB housing of the BAS 66 and BAS 66 Skew
- Display of the required and actual elevation in the receiver menu/HDS 50 control panel/CAP control app
- Display of the elevation also possible with set skew
- Display of the set skew in the HDS 50 control panel/ CAP control app
- No additional cable required between antenna and receiver



* Manufacturer's recommended retail price

> **Planar antenna for stationary use**
BAS 65

- For mounting on walls, masts, brackets and on flat surfaces
- Including mounting support for easy antenna alignment
- For the reception of digital satellite TV and radio channels
- Frequency range: 10.70–12.75 GHz
- Power supply via the coaxial cable
- With integrated twin LNB (two outputs)



Installation examples



> **Offset parabolic antennas**
KEA 650

- Foldable LNB arm made of aluminium
- Aluminium reflector, powder-coated
- Rear support, mast and closing brackets of galvanised sheet steel (fully assembled)
- Nuts and bolts in stainless steel
- Reflector colours: White, graphite



> **Universal LNBs**
KEL 411, KEL 422

The Kathrein Euroline universal feed systems are suitable for satellite reception systems with a 40 mm LNB fixing plate. They are intended for reception of satellites in the Ku band, e.g. Astra, EUTELSAT, Turksat, and Hispasat etc. All LNBs are HDTV/DVB-S2 compatible.



KEL 411
(Single LNB)



KEL 422
(Twin LNB)

* Manufacturer's recommended retail price

Unique Features

> Antenna control and live streaming to a smartphone/tablet

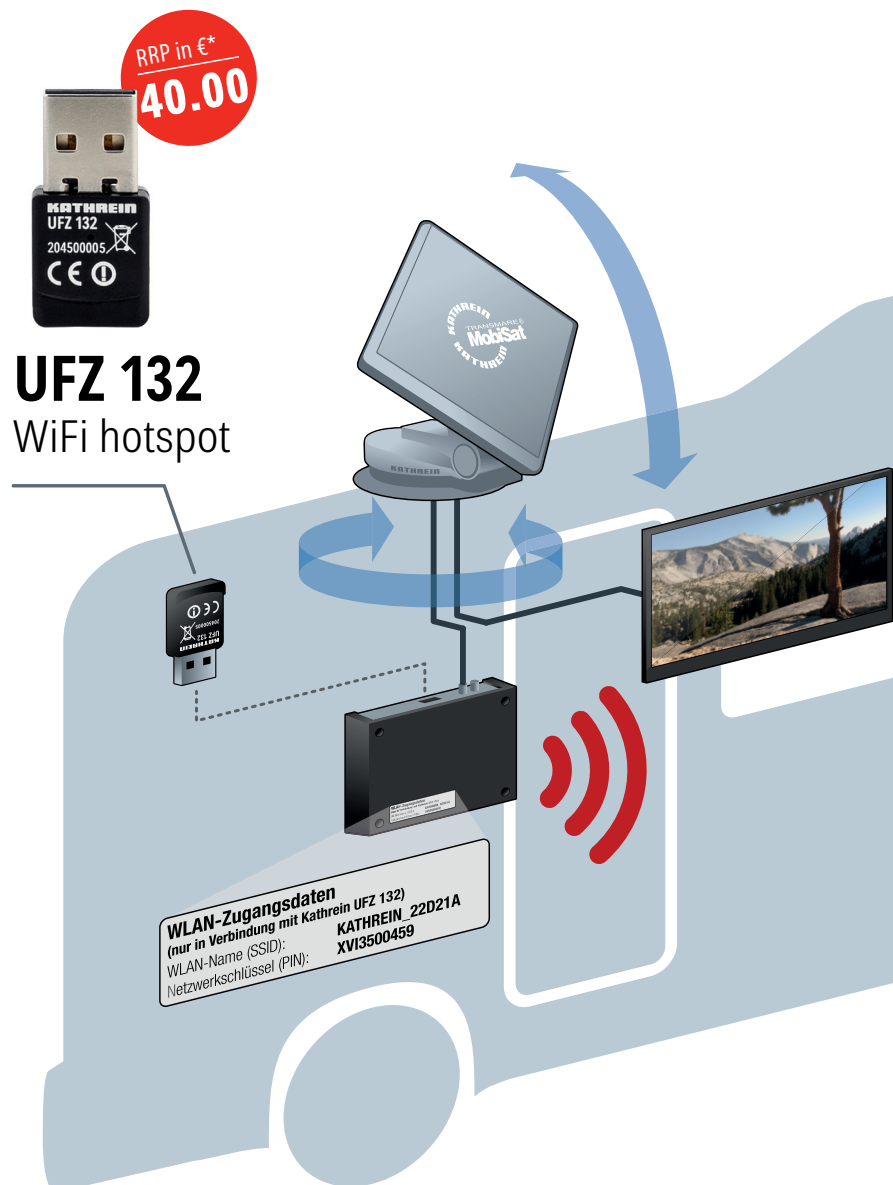
By setting up a Wi-Fi hotspot, TV and radio broadcasts can be streamed to mobile devices (smartphones, tablets, etc.) without an additional Internet router.

> USB/Wi-Fi adapter

UFZ 132

- Supports the Wireless Standards IEEE 802.11a/b/g/n with a data rate of up to 433 Mbps
- No additional software required
- Supports 2.4 and 5 GHz ISM bands (dual band)
- Supports 64/128 bit WEP, WPA and WPA2 encryption
- Power supply via the USB port
- Suitable for CAP converters and alpha- tronics TV sets

* Manufacturer's recommended retail price



App CAPcontrol

Control and streaming



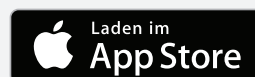
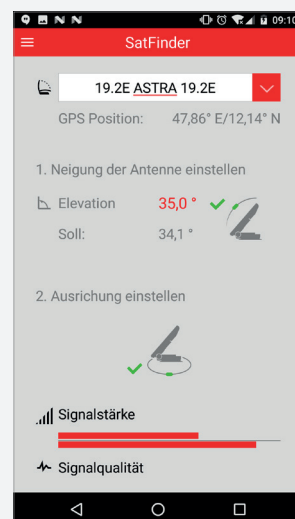
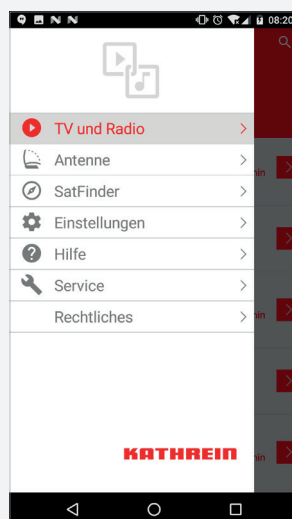
CAPcontrol app

Convenient and versatile features

The Kathrein CAPcontrol app has been extensively revised and now offers several new features. In addition to the previously known features of controlling the fully automatic antennas and live TV (in connection with the optionally available UFZ 132), the app now includes an integrated satellite finder which was especially designed for the BAS 66 Skew planar antenna and the HDZ 66 Skew inclinometer. In combination with the CAP converter V2 or an alphantronics TV set with Kathrein control, this antenna can now be aligned conveniently via smartphone or tablet.

CAPcontrol app features

- Control of the automatic antennas
- Live TV streaming to mobile devices (smartphone/tablet)
- Display of software version and update of the fully automatic antennas
- Detection of the HDZ 60/66 inclinometer
- Integrated sat finder
- Voice assistant for aligning the antenna set HDS 166 plus

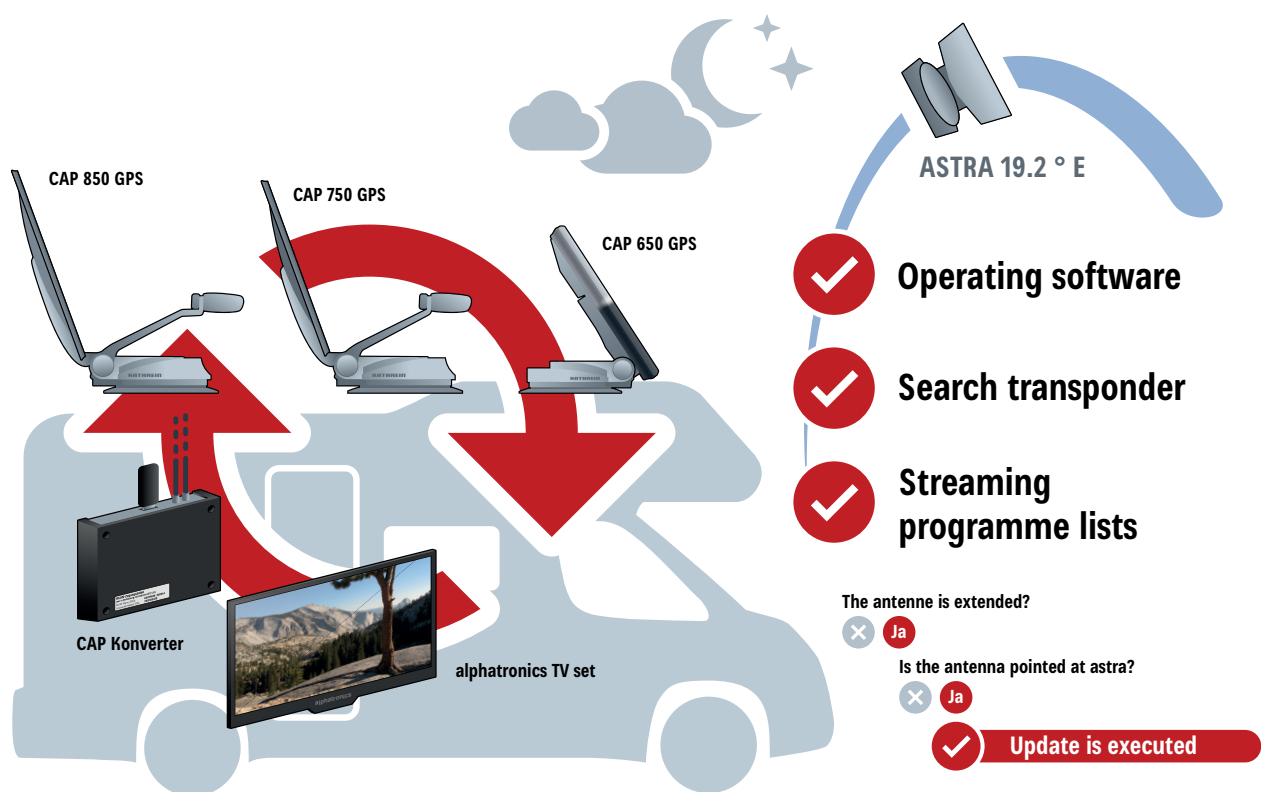


Software update via satellite

You probably know this from your own experience: You are looking forward to a good film, switch on your automatic antenna to watch TV, but the system can't find a satellite signal and keeps on searching for minutes. This often happens when the search transponder has changed frequency. The only remedy is to get a control unit update from the manufacturer.

We have solved this problem by means of a special download transponder via Astra 19.2° East. Every month, Kathrein engineers check whether the search transponder is still up to date and provide a download via satellite. The Kathrein software checks regularly whether a new update is available and, if this is the case, installs it automatically – it couldn't be simpler.

Good reception, wherever you are and whenever you need it – automatic overnight update



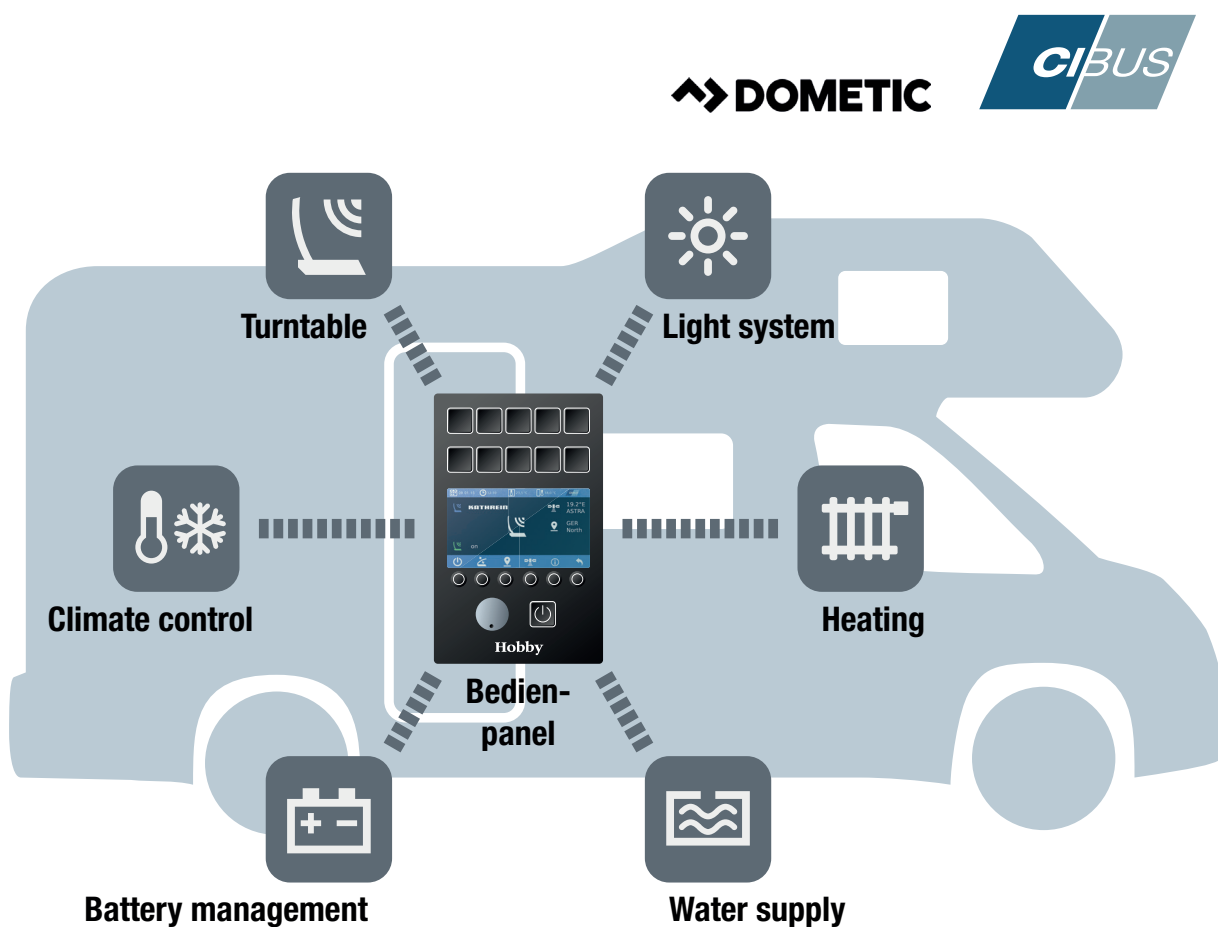
➤ Central control of the fully automatic antenna via the CI-BUS

The digital lifestyle has long since found its way into caravans and motorhomes. The CI-BUS interface (Caravaning Industry-BUS) enables the convenient operation of all electrical devices that conform with this standard via a central control unit.

Kathrein makes sure that campers will now be able to optimise broadcast reception in their caravan or motorhome just as conveniently. By using an additional adapter, our receiver-independent CAP x50 GPS antennas become CI-BUS compatible and can therefore be easily

integrated into CI-BUS systems. Hobby Caravan were the first to offer the CAP 650 GPS – our CI-BUS compatible fully automatic antenna – as an exclusive extra for their motorhomes and caravans.

Of course, we aim to connect our products also with other central control units via the CI-BUS. Thanks to our collaboration with DOMETIC, our fully automatic antennas can now be controlled via a central DOMETIC control unit.



> Satellite reception in camper vans

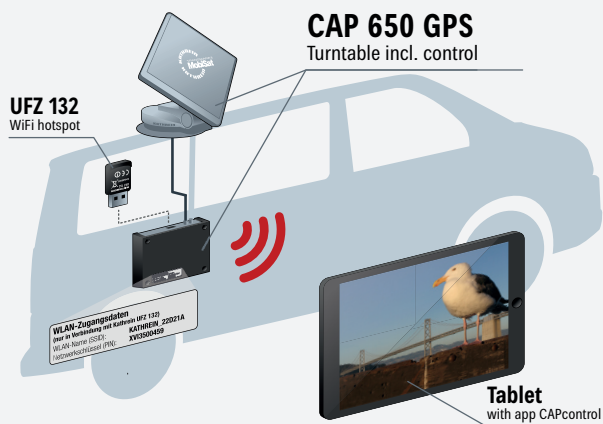
Camper vans – small, compact and nippy – are becoming more and more popular among camping enthusiasts. Satellite reception in such a confined space requires compact solutions. Our fully automatic CAP 650 GPS antenna and the HDS 166 or HDS 166 plus antenna set fulfil these specific demands.

> Option 1

TV reception with the CAP 650 GPS

The compact CAP 650 GPS requires little space on the vehicle and can also be operated without a TV set.

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



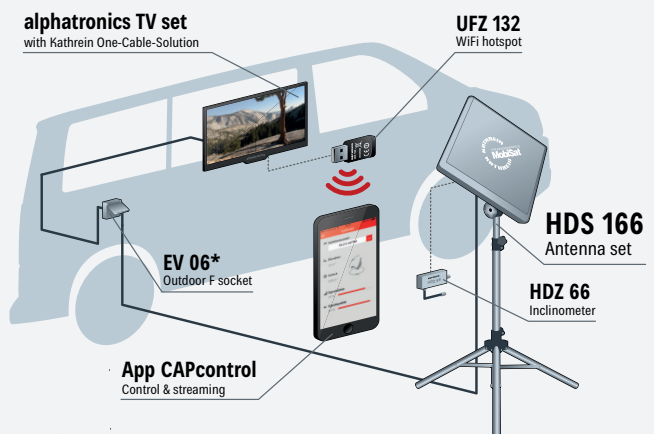
> Option 2

TV reception with the HDS 166 or HDS 166 plus

The HDS 166 antenna set is the ideal solution for campers who don't want to mount an antenna on their vehicle. The special features of this set are its very small pack size and its quick alignment via smartphone.

The perfect addition: alphanetronics SL line TV set (with Kathrein control)

The alignment via smartphone is even quicker if combined with an appropriate alphanetronics TV set and the UFZ 131/132. The revised CAPcontrol app now detects the inclinometer (included with the HDS 166). Thanks to the additionally integrated satellite finder, the antenna can be optimally aligned even without direct view of the TV screen.



* optional accessories

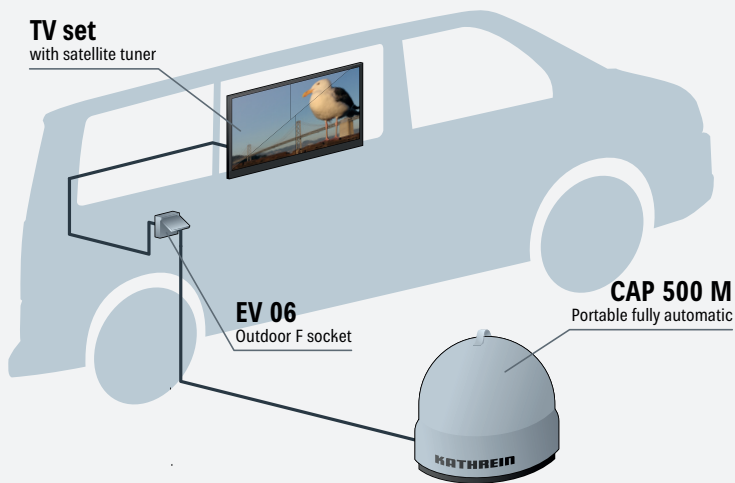


> **Option 3**

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

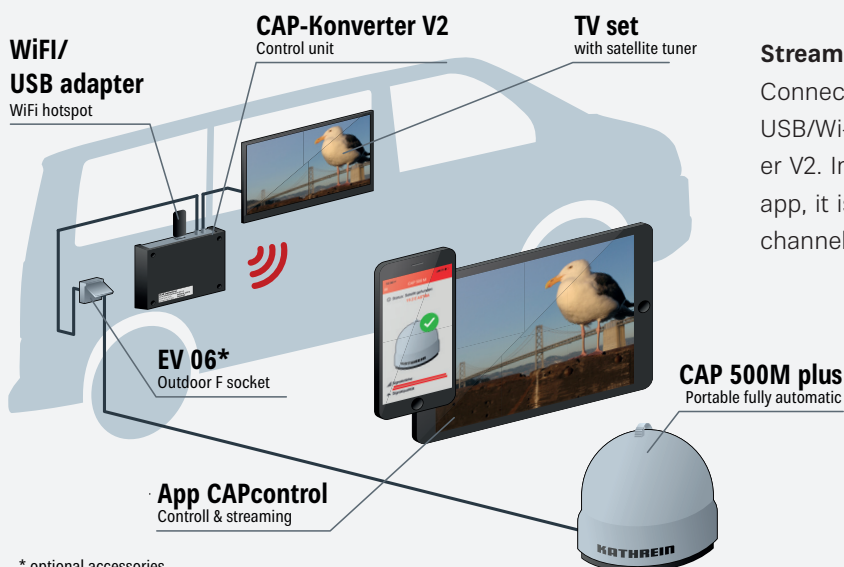
For campers who don't want to mount an antenna on their vehicle but still want an automatic antenna, the CAP 500M or the CAP 500M plus set is the ideal solution. The CAP 500M does not require its own power supply, but is simply connected to the TV set with satellite tuner using the supplied antenna cable.

The plus version (incl. CAP converter and USB/Wi-Fi adapter) is ideal if no TV set can be installed in the camper/caravan and you want to stream to a mobile device.



Without streaming

Direct connection of the CAP 500M to the TV set using the supplied antenna cable. No additional cables required.



Streaming

Connection of the CAP 500M and the UFZ 132 USB/Wi-Fi adapter to the supplied CAP converter V2. In conjunction with the free CAPcontrol app, it is now possible to stream radio and TV channels to a mobile device.

* optional accessories

Accessories and DVB-T2 Antennas

> **External control unit for the CAP x50 GPS series** HDS 50

The external control panel HDS 50 enables you to operate the CAP 650 GPS, 750 GPS and 950 GPS easily and conveniently without having to switch on a receiver or TV set. Selecting a satellite, lowering the antenna to the park position and other functions are available and can be accessed via the intuitive menu navigation. An LC display provides the necessary overview.

- Compatible with the CAP x50 GPS series
- No separate power supply required
- Easy wall mounting
- Including 3 m connection cable
- Dimensions (W x H x D in mm) 125 × 68 × 25



> **Control unit** CAP converter V2

The CAP converter is included with the fully automatic CAP x50 and CAP 500M plus antennas and the HDS 166 plus antenna set, where it serves as the central control unit. It is also available separately and is recommended if you want to convert a receiver-based CAP antenna into a receiver-independent solution. You can also use the CAP converter and the UFZ 131/132 USB stick to expand the HDS 166 antenna set to include live TV on smartphones/tablets and alignment via the voice assistant.



> Please note: Adapting the CAP system (6xx, 7xx or 9xx) to the CAP converter, requires an update of the turntable firmware. This update can be performed by our service centres.

> **Roof gland** HDZ 100

- Protective housing for cable interfaces
- Suitable for cable extension on the roof
- For a maximum of two RF cables and one DC cable
- Optimised for CAP systems
- Easy installation
- Unused cable entries can be closed off with integrated blind caps
- Connector size of cable duct: up to 29 x 17 mm



* Manufacturer's recommended retail price

> USB/Wi-Fi adapter

UFZ 132

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

- Supports the Wireless Standards IEEE 802.11a/b/g/n with a data rate of up to 433 Mbps
- No additional software required
- Supports 2.4 and 5 GHz ISM bands (dual band)
- Supports 64/128 bit WEP, WPA and 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 coax cable, connection: F-type connector



> Active DVB-T2 antennas

BZD 30/32/40



Active DVB-T/T2 indoor antenna BZD 30

- Remote feeding (5 V/30 mA) via the coax cable from the DVB-T2 receiver
- 2 m connection cable included
- Integrated trap filter for GSM and LTE interference



Active DVB-T/T2 indoor antenna BZD 32

- Remote feeding (5 V/30 mA) via the 3 m USB remote feed cable, e.g. from the TV set
- Integrated trap filter for GSM and LTE interference



Active DVB-T/T2 outdoor antenna BZD 40

- Remote feeding (5 V/30 mA) via the coax cable from the DVB-T2 receiver
- Included accessories: fixing material for wall/mast mounting, 10 m connection cable, F-plug and IEC plug

* Manufacturer's recommended retail price

> Satellite jointed masts and tripod stand
HDM 140, 141, 143, HDS 100

The jointed masts allow optimal mounting and rapid alignment of the BAS 66 planar antenna from inside the vehicle. The jointed masts are made of rust-proof and seawater-resistant Duralium. The swivel heads are made 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.



RRP in €*
224.00

Mast HDM 140

For mounting the BAS 66 planar antenna on caravans or motorhomes, length 103 cm



RRP in €*
224.00

Mast HDM 141

Shorter version of HDM 140, length 76.5 cm



RRP in €*
174.00

Mast HDM 143

For upgrading a terrestrial to a satellite reception system with the BAS 66 planar antenna



RRP in €*
95.00

Duralium mast HDM 135

Length 2 m, diameter 35 mm, incl. mounting brackets and roof seal



RRP in €*
68.00

Satellite tripod mast HDS 100

Ideal for flexibly setting up the BAS 65 or KEA 650 satellite antenna. The telescopic, rotatable extension allows easy alignment of a mounted antenna. Aluminium tripod mast with 2 mm wall thickness (light and very stable), securing pegs for stabilisation on the ground, incl. carry bag

* Manufacturer's recommended retail price



Spare parts for many products from our "Camping and Caravan" range are available from the Kathrein factory repair centre CSS Caravan-Sat-Service GmbH (see address on page 43).

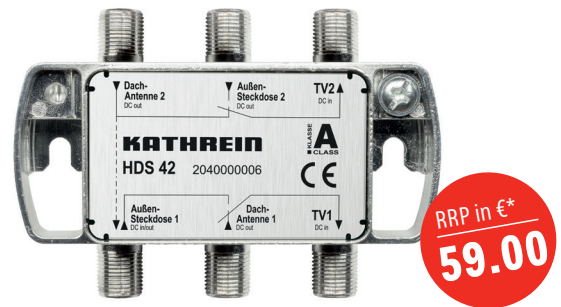
> **Master/slave switch**

HDS 42

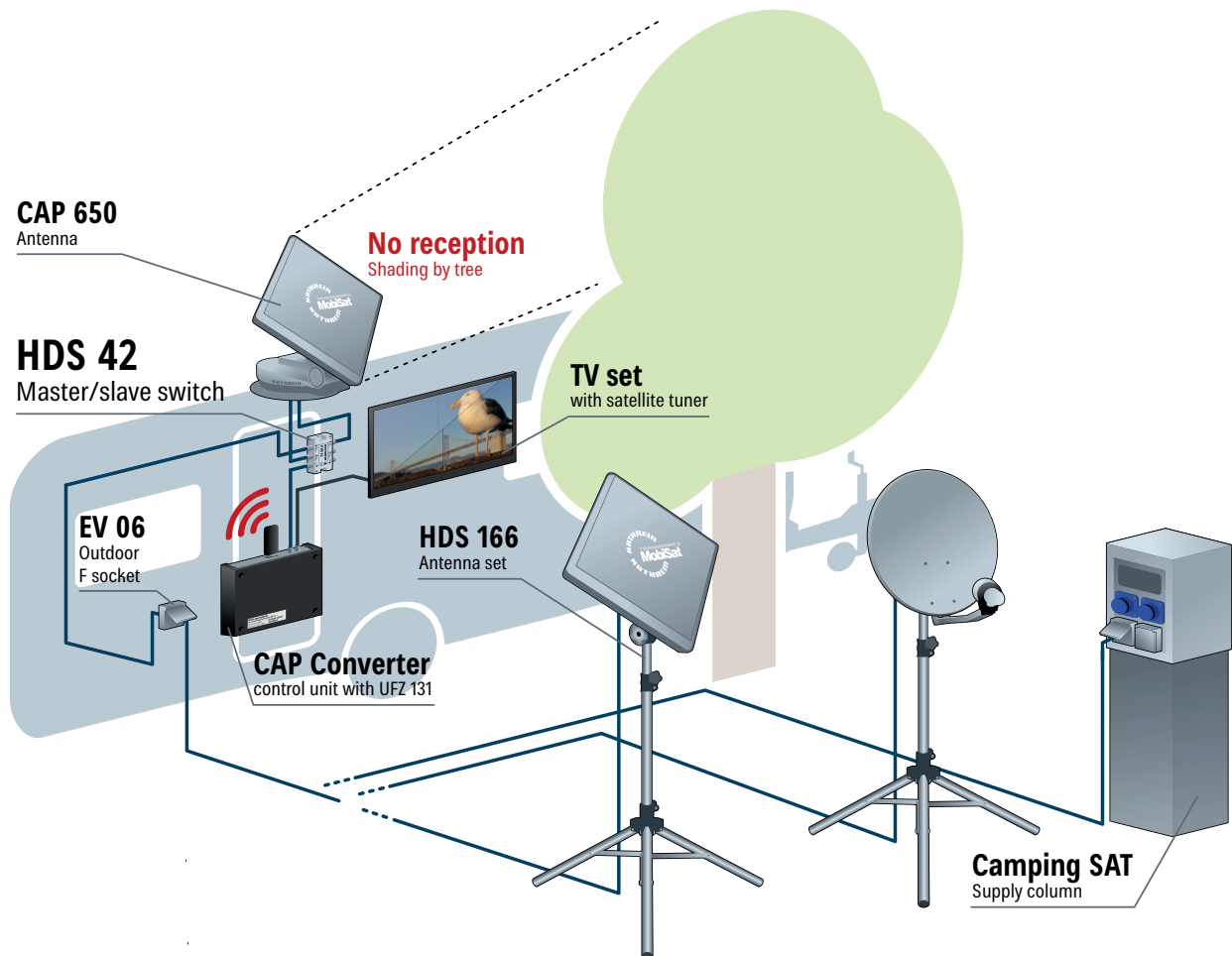
The HDS 42 master/slave switch was developed for customers who have a remote antenna in addition to a fully automatic antenna or who want to use a satellite signal available at the site.

The HDS 42 connects both systems and automatically detects which system is currently receiving a signal. The highlight of this solution: There is no need to reconnect the cables.

Since the CAP converter serves as the central unit for both systems, the free CAPcontrol app can be used for both receive paths. You can also use the app to watch free-to-air stations on your smartphone/tablet.



* Manufacturer's recommended retail price

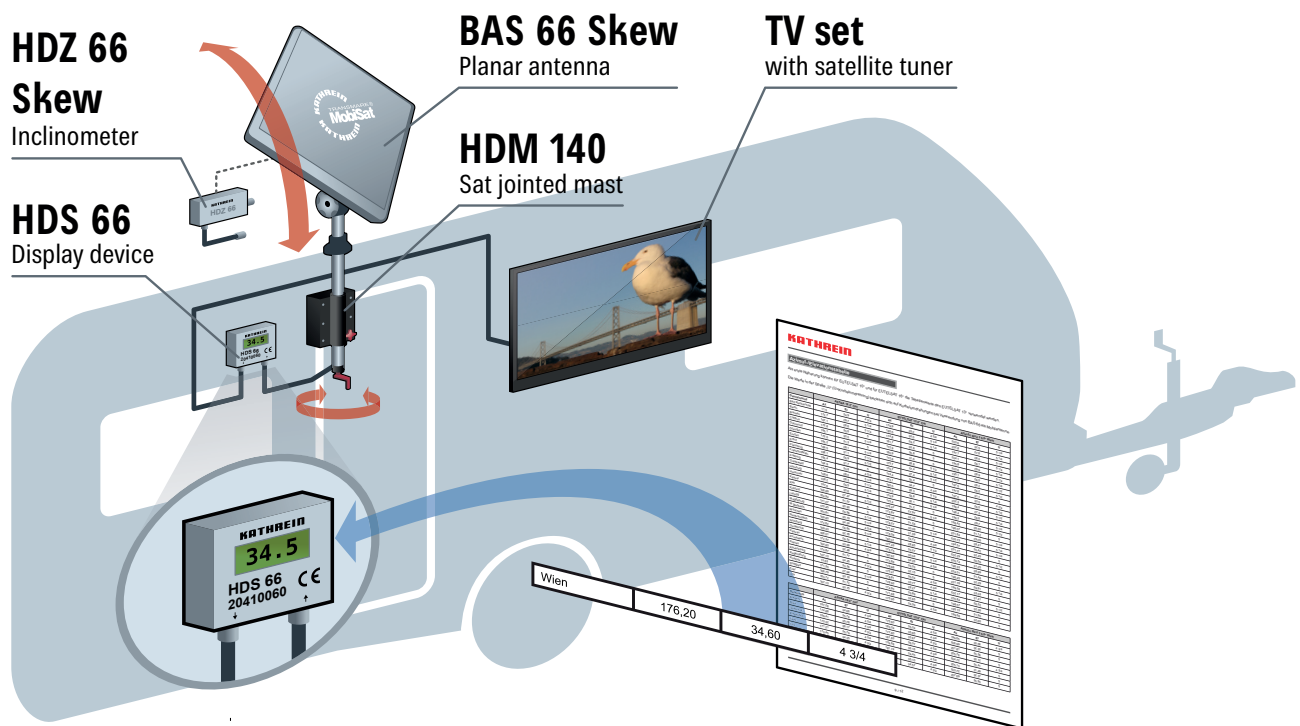


> Display unit
HDS 66

- Shows the actual elevation of the inclinometer HDZ 60 or HDZ 66
- The display backlight switches off automatically if the elevation remains unchanged (energy saving mode)
- The display backlight switches on automatically if the elevation changes
- Easy wall mounting



Aligning the planar antenna using the HDS 66



* Manufacturer's recommended retail price

Technical Data

Type	UFZ 132
Order no.	204500005
Standard	IEEE 802.11ac/a/b/g/ng
Connection	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
Unit dimensions [mm]	29.3 × 15 × 7.5
Weight [kg]	0.02

Type	BAS 66 Skew	BAS 65
Order no.	2000000001	20010032
Application	Mobile use	Stationary use
Mounting options	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 width range [°] ¹⁾	Typically < 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. current drain [mA]	220	
Wind load [N] ²⁾	240	
Mast clamp range [mm]	–	38–50
Setting range elevation [°]	0–90 (HDM 14×)	0–50
Setting range azimuth [°]	360	± 65 (wall mounting), 360 (mast mounting)
Dimensions net/gross [mm]	500 × 500 × 109 (without bracket)/600 × 600 × 200	500 × 500 × 121 (without bracket)/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 acc. to EN 60728-11

Type	CAP 850 GPS	CAP 750 GPS	CAP 650 GPS
Order no.	203500001	20310056	20310055
Diameter parabolic reflector approx. [cm]	85	60	–
Required space 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 (vehicle battery) [V]	10.5–15.5		
Current drain from the 12 V supply [A]:	Typically 3		
Current drain from the receiver [mA]	Typically 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
Dimensions gross [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

CAP all-in-one packages include:

pre-assembled antenna, mounting plate and mounting material with roof gland, complete set of cables, installation and operating instructions, CAP converter V2

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	
EIRP min. [dbW]	51	
Search time (typically) [s]	90	
LNB outputs	1	
LNB output frequency [MHz]	950–2150	
Supply voltage [V]	13–18	
Current consumption [W]	5.4 (during search)	
L.O. Frequency [V DC]	9.75/10.6	
Dimensions net/gross [mm]	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 widescreen			
Resolution	1920 × 1080 full HD			
Contrast ratio	3000:1	1000:1		
Luminance	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 power [W]	2 × 5			
External power supply [AC/DC]	100–240 VAC, 12 VDC			
Dimensions (W x H x D) with stand [mm]	732 × 476 × 213	622 × 408 × 175	552 × 370 × 154	503 × 343 × 154
Dimensions (W x H x D) w/o stand [mm]	732 × 437 × 61	622 × 376 × 55	552 × 340 × 54	503 × 312 × 53
Dimensions gross [mm]	816 × 520 × 143	680 × 445 × 125	630 × 405 × 118	580 × 375 × 11
Weight with stand [kg]	6.75	5.2	4.2	3.7
Weight w/o stand [kg]	6.7	4.7	3.9	3.4
Weight gross [kg]	8.8	6.7	5.7	5
Energy efficiency class	F			
Energy consumption [kWh/1000h]	32/26/22/20			
Colour	Brushed anthracite			

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⁾	Typically -28.5	Typically -28.4	Typically -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⁾	Typically 95	Typically 95	95
Permissible remote feed voltage [V]	5	5	5–25
Dimensions [mm]	140 × 195	140 × 195	204 × 196 × 71 ³⁾
Packing unit/weight [pc./kg]	1(10)/0.5	1(10)/0.5	1(10)/1.23
Dimension, single package [mm]	245 × 160 × 70	245 × 160 × 70	250 × 210 × 80

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

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

³⁾ Including bracket

Advice and Service

> Caravan service centres

Germany

- 1 alphonics GmbH**
Breitengraserstraße 6
90482 Nürnberg
Phone: +49 911 216 554 40
info@alphonics.de
- 2 CSS Caravan-Sat-Service GmbH
Werksreparaturstelle**
Bahnhofstr. 110
83224 Grassau
Phone: +49 8641 69984-27
service@css-grassau.de
- 3 RAPP GmbH Fachhandel**
Auer Straße 7
89287 Bellenberg
Phone: +49 7306 927 521-1
info@elektro-rapp.com
- 4 Wohnwagen Vogt GmbH**
Koblenzer Str. 53
66115 Saarbrücken
Phone: +49 681 482 549 70
info@wohnwagen-vogt.de
- 5 Knocks Motors GmbH & Co. KG**
Schulland 1
34474 Diemelstadt-Ammenhausen
Phone: +49 5694 990 990
service@knocks-motors.com
- 6 Williges Elektronik Service GmbH**
Solinger Straße 13
28199 Bremen
Phone: +49 421 504 021
info@williges-elektronik.de
- 7 Wohnmobile & Caravans Linke**
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Phone: +49 3841 283 758
wohnmobile-linke@t-online.de
- 8 SP. Minke**
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21266 Jesteburg
Phone: 49 4183 2222
minke-jesteburg@t-online.de
- 9 Reisemobil und Wohnwagen
Service Zivkovic**
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reisemobilservice@t-online.de
- 11 Caravan Reisemobile Böhm**
Bischofswerdaer Landstraße 3
01920 Elstra
Phone: +49 357 93 397 641
caravan-boehm@gmx.de
- 12 HAMPL CARAVAN – MC Rent Gera**
Liebschwitzer Str. 148
07551 Gera
Phone: +49 365 20 58 822
info@hampl-caravan.de
- 13 M. Michalk GmbH & Co
Automobile KG**
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13599 Berlin
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mmautomobile@t-online.de
- 14 Brock - Das mobile Freizeitzentrum**
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GmbH**
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5020 Salzburg
Phone: +43 662 875 531 32
josef.bauer@kathrein-gmbh.at
- Wohnwagen Pusch GmbH**
Linzerstraße 138
4810 Gmunden
Phone: +43 7612 676 00
office@pusch-wohnwagen.at

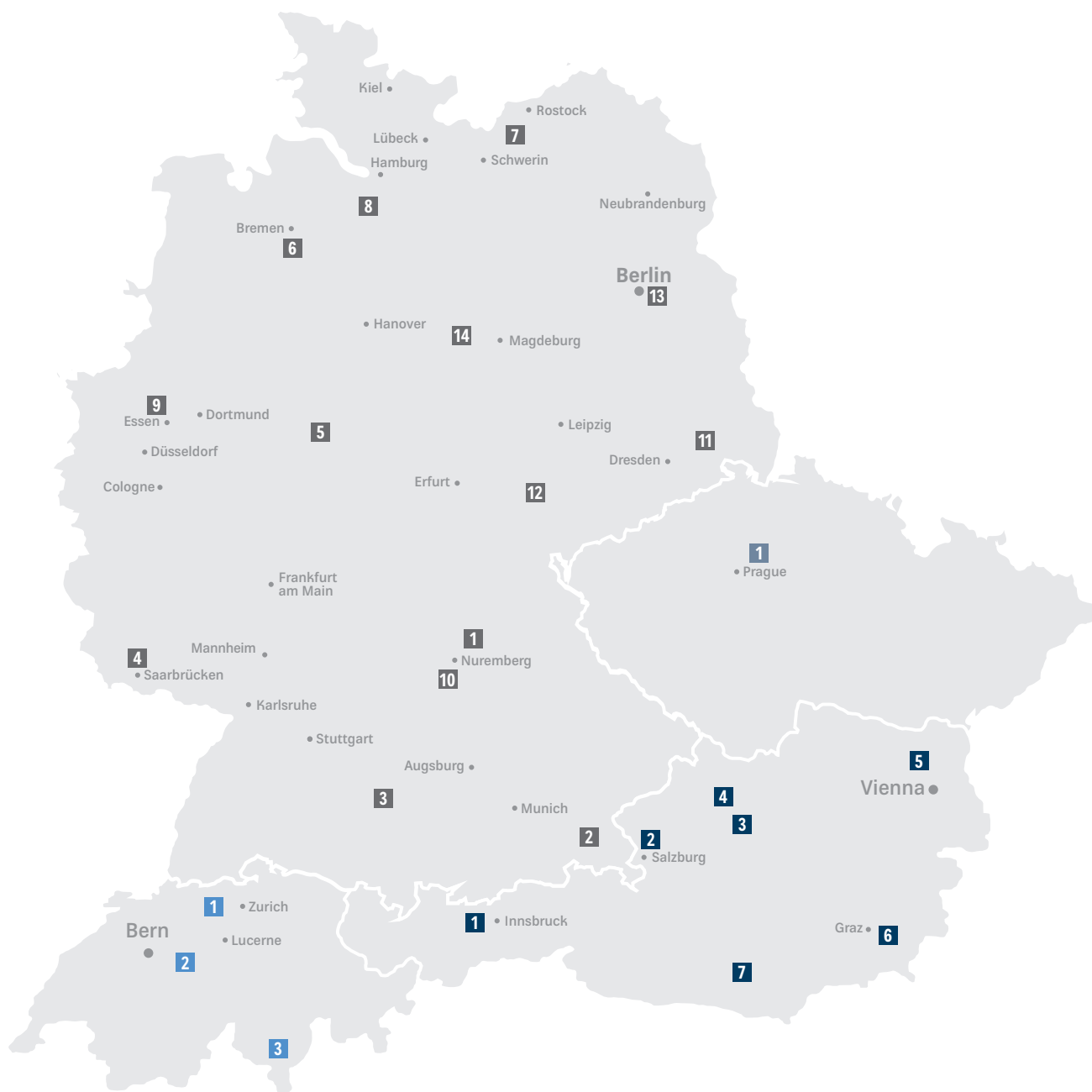
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> **Advice and information**

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For further information regarding service and support, go to www.kathrein-ds.com/support/kundenberatung



DAB+ Radios

> DAB+ 1 mini

The DAB+ 1 mini is a small, portable FM/DAB+ radio with a powerful sound. Equipped with Bluetooth for wireless audio streaming, it leaves nothing to be desired when streaming from mobile phone to radio. An integrated rechargeable battery pack, an OLED display as well as an antenna socket for an external wire antenna perfectly round off the smallest member of our DAB+ family. The DAB+ 1 mini is available in four colours – white, silver, light/dark real wood veneer.

Features

- DAB+ and FM
- Bluetooth for audio streaming
- OLED display for DAB services and information
- Integrated rechargeable battery
- Including antenna cable (wire antenna, 3.5 mm jack cable) and USB charging cable (USB Micro, 5 V/1 A)

Available in the following colours:



Dark wood



Light wood



White



Silver



NEU
RRP in €*
139.00

Original size



> DAB+ 10 tower

The DAB+ 10 tower is a modern, portable FM/DAB+/Internet radio. In addition to Bluetooth for wireless audio streaming, the tower radio is equipped with Wi-Fi, allowing you to use Deezer, Tidal, Napster, Qobuz and Spotify Connect as well as Internet radio.

Of course the tower also offers other features such as an alarm clock, sleep timer, pairing via NFC and control via the UNDOK™ app. This radio has an integrated charger for rechargeable batteries and a compartment for disposable batteries (switchable) – you can easily take it out and about, wherever you go.

Features

- Internet radio/DAB+/FM RDS
- Deezer, Tidal, Napster, Qobuz and Spotify Connect
- Bluetooth for audio streaming
- UNDOK™ app for playback control
- UPnP/DMR music streaming
- 2.4" backlit colour display
- Output power: 1 × 10 W (RMS)
- Mains adapter 12 VDC/1.5 A with charger for rechargeable batteries and compartment for disposable batteries (switchable, batteries not included)



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