

Camping & Caravan 2022

At home when travelling





KATHREIM | 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 the digital reception of satellite, terrestrial, cable or IP channels, and for signal splitting within buildings and caravans. We are constantly extending our reliable high-quality product portfolio for modern TV and radio reception with innovative solutions in the field of building technology.

Our solutions and systems are absolutely top-class, based on our great expertise in development and unexcelled quality standards in manufacturing. High-quality satellite reception systems in conjunction with well-designed solutions for signal splitting – be it within a single-family house or a large building complex – bring the best signals in HD quality all the way to the receiving devices. New technologies such as SAT>IP, optical satellite splitters and modular head-end technology for hotel TV close the gap between the classic signal splitting techniques and modern fibre optic and network technologies.

The well-developed solutions from KATHREIN Digital Systems are also the best choice for TV reception in motor homes and caravans.

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

Our awards:











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With Kathrein at home when travelling



If you travel a lot but still don't want to miss your regular TV and radio programmes. Kathrein has been responding to their customers' desires since 1974 and has developed mobile reception systems specially for use in motor homes and caravans. These are designed for maximum convenience and ease of operation, and offer the best Kathrein quality. Our range includes not only fully automatic satellite reception systems but also inexpensive semi-automatic and manual alignment systems. SAT jointed masts, mast tripod stands and planar antennas make this type of satellite reception very simple.



SIM card slots

RRP in €*

599

DE - 43022 Rosenheim CAR 150 WiFi Duo 204500013

NEU

WLAN routers

Quality routers for Internet reception in motor homes / caravans CAR 150 WiFi Duo

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

Because it has two SIM card slots you can access two different LTE networks at a time, **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. The compact 5-in-1 antenna with two LTE antennas, one GPS antenna and two WLAN antennas is mounted on the outside of the vehicle to ensure good network reception. 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 router has a user-friendly operating interface which shows you at a glance what signal strengths are available. And makes it very easy to switch between different networks.



230 V power supply unit

• 12 V connection cable

Ethernet cable

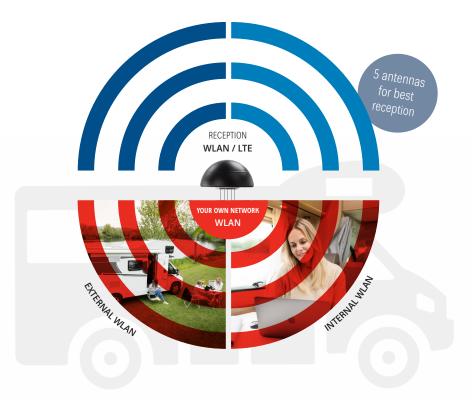
Main features

- Internet via mobile telephony (LTE) or WLAN
- Two SIM card slots for access to different networks, for instance D1 and Vodafone, or local operators when you're abroad
- 12 V or 230 V power supply

Items supplied:

- Router
- Roof antenna
- Internal WLAN antenna
- Roof duct with securing gland

Your own hotspot within the motor home and around it



CAR150 duo

ADVANTAGE

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









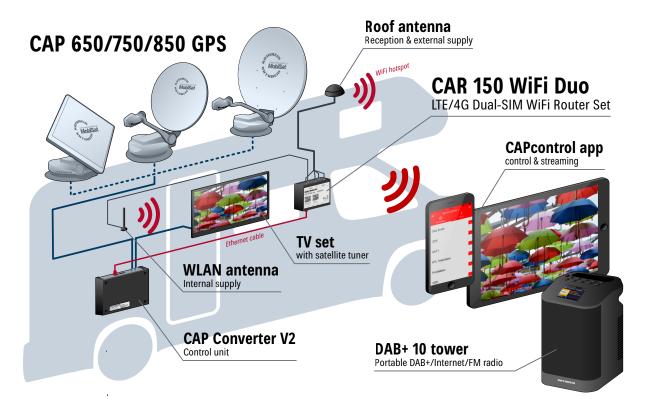




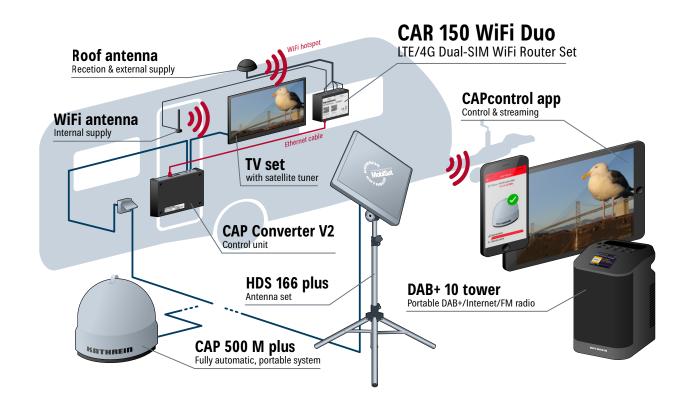
Streaming of radio & TV channels via the router

CAR 150 WiFi Duo in conjunction with CAP 650/750/850 GPS/CAP 500M plus or HDS 166 plus

Using CAP x50 GPS, CAP 500M plus or HDS 166 plus with the CAR 150 WiFi Duo router and our free "CAP control" app, you can easily stream the received radio and TV channels on to a mobile terminal. In this scenario the UFZ 131/132 WLAN/USB 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 has a higher signal strength than that broadcast by the UFZ 131/132 and thus creates a wider radius of use around the motor home or caravan.



CAR 150 WiFi Duo in conjunction with CAP 650, 750 or 850 GPS

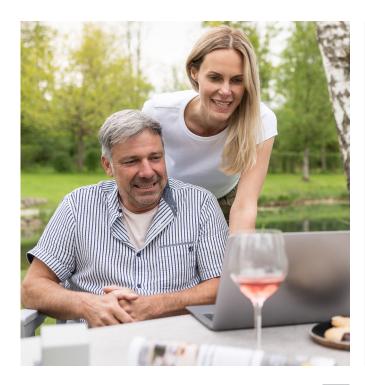


CAR 150 WiFi Duo in conjunction with CAP 500M plus or HDS 166 plus



Overview of our advantages (HDP 650/750/850 GPS)

Why you should choose a fully automatic antenna from Kathrein



GPS in all fully automatic antennas

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



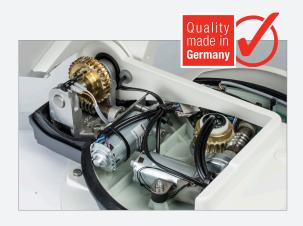
3 years warranty

Continuous optimisation means we are so impressed by the quality of our products that we offer a 3 year warranty on the HDP turntable.

Quality "made in Germany"

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





3

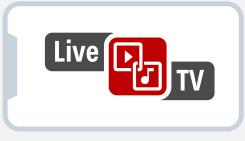
Aerodynamic design

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



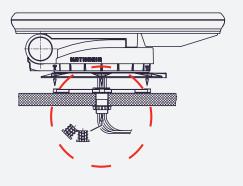
CAP control app

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 of the HDS 166 plus antenna set) – all conveniently arranged on your smartphone/tablet.



Cable pass-through

The cables of the Kathrein fully automatic antennas are not brought out down the side of the vehicle, they are brought into the vehicle directly underneath the system.



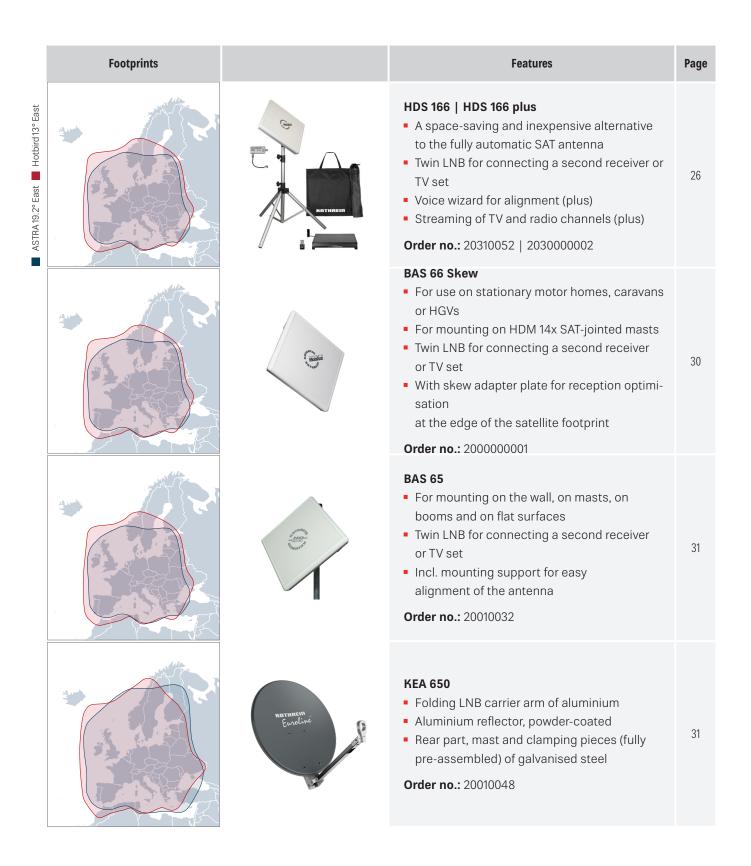
CI-BUS

The use of an additional adapter renders the antenna CI-BUS-capable and thus gives you an easy facility for integration into CI-BUS systems.



Overview of satellite reception

	Footprints		Features	Page
ASTRA19.2° East 📕 Hotbird13° East		MobiSat MobiSat	 HDP 850 GPS 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 Order no.: 204500003 	16
		Mossi Mossi Control	 HDP 750 GPS Optimised weight: < 10 kg Optimum aerodynamics (low air resistance) Twin LNB for connecting a second receiver or TV set Order no.: 20310056 	18
		A STATE	 HDP 650 GPS Compact design Installed height: 21 cm Twin LNB for connecting a second receiver or TV set Order no.: 20310055 	20
		катняей	 CAP 500M CAP 500M plus 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 (plus) Order no.: 203500003 203500004 	22



Fully automatic SAT antennas

Your routes to perfect SAT reception



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)

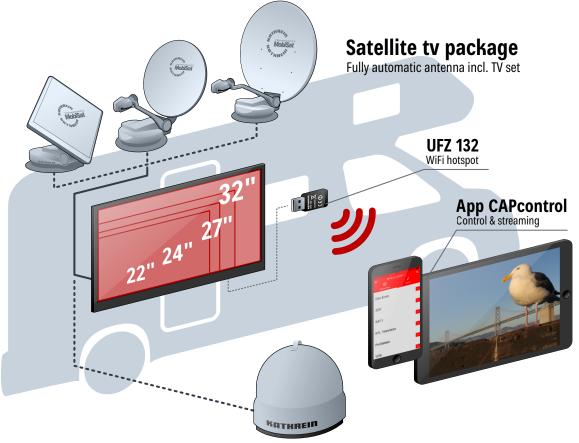


"One-cable solution" from Kathrein and alphatronics Individual SAT-TV packages

For your individual SAT-TV package, choose one of our fully automatic SAT antennas together with any TV set from alphatronics. These combine the expertise of both companies into an intelligent reception concept.

The entire operation of the fully automatic SAT antenna is performed directly from an alphatronics TV set - there is no need for additional integration of a separate control unit or receiver. Thus only two components (the turntable and the TV set) are required for TV and radio reception in your caravan or mobile home. In their cooperative endeavour, Kathrein and alphatronics each value above all the simplicity of the connection between the antenna and the TV set, with very little need for cabling. Control of the turntable and transfer of the satellite signal to the TV set are both performed over one and the same coaxial cable.



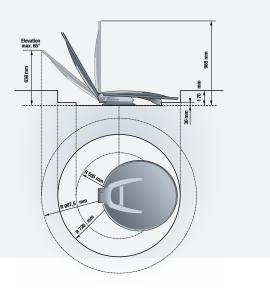


> The big HDP 850 GPS

The HDP 850 GPS is based on the HDP 750 GPS but has been given a new carrier arm and a large 85 cm parabolic reflector. The larger parabolic reflector increases the safety margin for reception and increases 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 the modified mechanism, the aerodynamic design of the system and the antenna is only about 18 cm high, permitting vehicle speeds of up to 130 km/h (with the antenna lowered). In conjunction with the proven CAP control app and the UFZ 131 or 132 WLAN/USB adapter, the HDP 850 also allows streaming of any live TV on 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 CAP control app
- Large 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

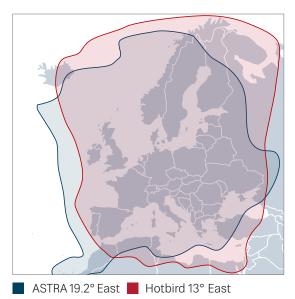






* KATHREIN Digital Systems GmbH recommended retail price

Footprints



SAT-TV package with HDP 850 GPS



Fully automatic antenna HDP 850 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 by remote control
- No additional control unit required
- Live TV on a mobile terminal (smartphone, tablet) using the UFZ 131/132 (optional accessory)

HDP 850 GPS, order no.: 204500003 UVP HDP separately: €1,949.-

BN TV	Туре	RRP CTS TV	Total RRP for HDP + CTS-TV
204500007	CTS SL-22 DSBAI+K	€699	€2,648
204500008	CTS SL-24 DSBAI+K	€769	€2,718
204500009	CTS SL-27 DSBAI+K	€849	€2,798
204500010*	CTS SL-32 DSBAI+K	€899	€2,848

* UFZ 132 inclusive

Recommended accessories

- HDS 50 (only for solution 2)
 External control unit for the CAP x50 GPS series
 Order no. 20410070, RRP €199.–
 Further details on page 37
- UFZ 132

WLAN/USB adapter Order no. 204500005, RRP €39.90 Further details on page 32

* KATHREIN Digital Systems GmbH recommended retail price



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)

Designation	Contents	Order no.	RRP (€)
CAP 850 GPS	HDP 850 GPS and CAP converter	203500001	1,999

HDZ 100

Roof pass-through Order no. 20410032, RRP €29.90 Further details on page 37

HDS 42

Master/slave switch Order no. 2040000006, RRP €59.– Further details on page 40



> The lightweight 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

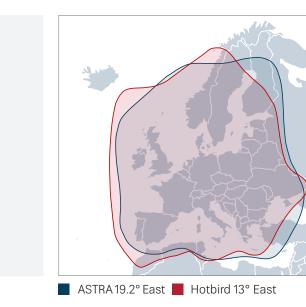
- Optimised weight: < 10 kg</p>
- One of the lightest fully automatic turntables
- Optimum aerodynamics
 - Low air resistance
 - Low noise emission
- Allows connection of a second receiver or TV set



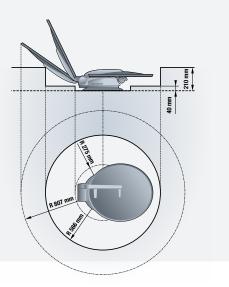




Footprints



Space required



SAT-TV package with HDP 750 GPS



- Control the antenna directly from the TV set
- Only one coaxial cable between the TV set and the antenna
- Only by remote control

incl. alphatronics TV set

HDP 750 GPS

- No additional control unit required
- Live TV on a mobile terminal (smartphone, tablet) using the UFZ 131/132 (optional accessory)

HDP 750 GPS, order no.: 20410084 UVP HDP separately: €1,699.-

BN TV	Туре	RRP CTS TV	Total RRP for HDP + CTS-TV
204500007	CTS SL-22 DSBAI+K	€699	€2,398
204500008	CTS SL-24 DSBAI+K	€769	€2,468
204500009	CTS SL-27 DSBAI+K	€849	€2,548
204500010*	CTS SL-32 DSBAI+K	€899	€2,598

* UFZ 132 inclusive

Recommended accessories

Further details on page 37

- HDS 50 (only for solution 2)
 External control unit for the CAP x50 GPS series
 Order no. 20410070, RRP €199.–
- UFZ 132

WLAN/USB adapter Order no. 204500005, RRP €39.90 Further details on page 32

* KATHREIN Digital Systems GmbH recommended retail price

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)

Designation	Contents	Order no.	RRP (€)
CAP 750 GPS	HDP 750 GPS and CAP converter	20310056	1,799.–

HDZ 100

Roof pass-through Order no. 20410032, RRP €29.90 Further details on page 37

HDS 42

Master/slave switch Order no. 2040000006, RRP €59.– Further details on page 40



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).

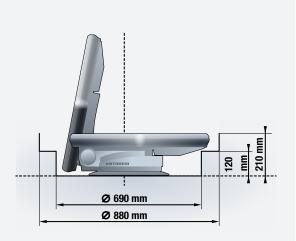
Main features

- 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

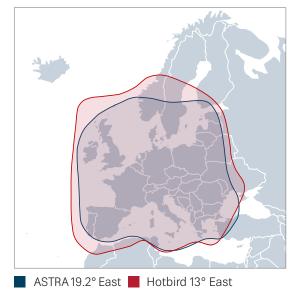




Space required



Footprints



SAT-TV package with HDP 650 GPS

Solution 1

HDP 650 GPS



- Control the antenna directly from the TV set
- Only one coaxial cable between the TV set and the antenna
- Only by remote control

incl. alphatronics TV set

- No additional control unit required
- Live TV on a mobile terminal (smartphone, tablet) using the UFZ 131/132 (optional accessory)

HDP 650 GPS, order no.: 20410083 UVP HDP separately: €1,799.-

BN TV	Туре	RRP CTS TV	Total RRP for HDP + CTS-TV
204500007	CTS SL-22 DSBAI+K	€699	€2,498
204500008	CTS SL-24 DSBAI+K	€769	€2,568
204500009	CTS SL-27 DSBAI+K	€849	€2,648
204500010*	CTS SL-32 DSBAI+K	€899	€2,698

* UFZ 132 inclusive

Recommended accessories

- HDS 50 (only for solution 2) External control unit for the CAP x50 GPS series Order no. 20410070, RRP €199.-Further details on page 37
- UFZ 132

WLAN/USB adapter Order no. 204500005, RRP €39.90 Further details on page 32

HDZ 100

Roof pass-through Order no. 20410032, RRP €29.90 Further details on page 37

HDS 42

Master/slave switch Order no. 204000006, RRP €59.-Further details on page 40



Receiver-independent antenna

Fully automatic antenna

Solution 2

HDP 650 GPS

incl. CAP converter

- 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)

Designation	Contents	Order no.	RRP (€)
CAP 650 GPS	HDP 650 GPS and CAP converter	20310055	1,899

KATHREIN Digital Systems GmbH recommended retail price

22 | Camping & Caravan 2022 | Fully automatic SAT antennas

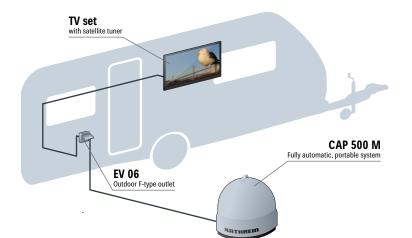
> The portable CAP 500M

- 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







Footprint ASTRA 19.2° East



BN	Туре	RRP	BN TV	Туре	RRP CTS TV	Total RRP for antenna + CTS-TV	
	CAP 500 M €949			204500007	CTS SL-22 DSBAI+K	€699	€1,648
203500003		6040	204500008	CTS SL-24 DSBAI+K	€769	€1,718	
203300003		£343	204500009	CTS SL-27 DSBAI+K	€849	€1,798.–	
			204500010*	CTS SL-32 DSBAI+K	€899	€1,848	

* UFZ 132 inclusive

The portable + streaming CAP 500M plus

- Live streaming of TV and radio channels on a mobile terminal in conjunction with the free CAP control 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

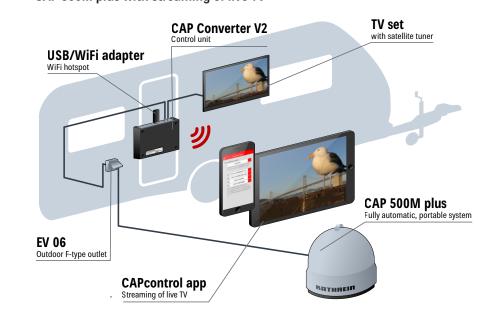




WLAN/USB adapter



CAP converter V2





CAP control app – Streaming of live TV





>

Install the CAP control app here:







CAP 500M plus with streaming of live TV

alphatronics Smart TV sets CTS SL-xx

You will be enthusiastic about the technological advantages offered by the SL-Line+. It has two SMART-TV portals, thus it opens up the world of the mobile Internet for you! The Android 9.0 operating system allows you to surf 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. Of course streaming services such as Netflix, Amazon Prime and Disney+ are 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, 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.











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

NEW

- Kathrein One-Cable-Solution control unit
- 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
- Operating instructions

> Overview of caravan TV systems

"One-Cable-Solution" caravan TV systems from Kathrein & alphatronics

BN	Туре	RRP	BN TV	Туре	RRP CTS TV	Total RRP for antenna + CTS-TV						
			204500007	CTS SL-22 DSBAI+K	€699	€1,648						
203500003	CAP 500 M	€949	204500008	CTS SL-24 DSBAI+K	€769	€1,718						
203300003	CAP JUU IVI	2 343	204500009	CTS SL-27 DSBAI+K	€849	€1,798						
			204500010*	CTS SL-32 DSBAI+K	€899	€1,848						
			204500007	CTS SL-22 DSBAI+K	€699	€2,498						
20410083	HDP 650 GPS	£1 700	204500008	CTS SL-24 DSBAI+K	€769	€2,568						
20410065		€1,799	204500009	CTS SL-27 DSBAI+K	€849	€2,648						
								204500010*	CTS SL-32 DSBAI+K	€899	€2,698	
	HDP 750 GPS					204500007	CTS SL-22 DSBAI+K	€699	€2,398			
20410084		61 000	204500008	CTS SL-24 DSBAI+K	€769	€2,468						
20410064		urs	urs	04 UPS	GP3	GPS	urs	€1,699	204500009	CTS SL-27 DSBAI+K	€849	€2,548
						204500010*	CTS SL-32 DSBAI+K	€899	€2,598			
			204500007	CTS SL-22 DSBAI+K	€699	€2,648						
204500003	HDP 850 GPS	£1 040	204500008	CTS SL-24 DSBAI+K	€769	€2,718						
		FI 949 -	204500009	CTS SL-27 DSBAI+K	€849	€2,798						
			204500010*	CTS SL-32 DSBAI+K	€899	€2,848						

* UFZ 132 inclusive



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

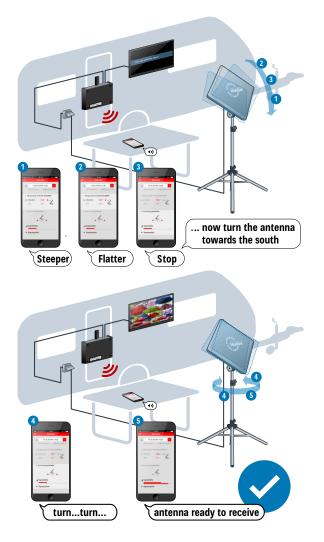
(W \times H \times D in mm; without a stand):

- 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. The interaction between the supplied components is best established using the revised CAP control 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.





METHOD OF OPERATI

- 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

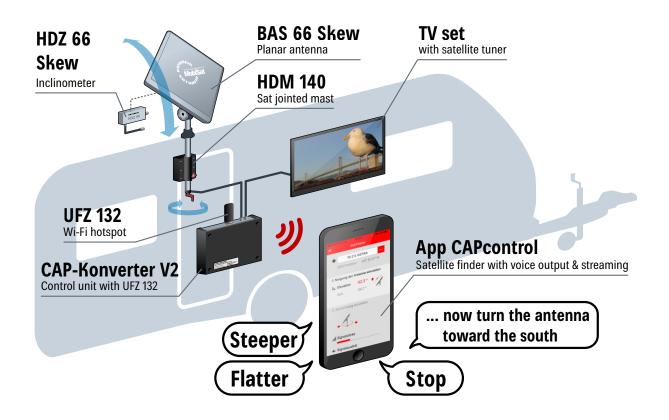
- BAS 66 Skew planar antenna (with twin LNB)
- HDZ 66 Skew elevation indicator
- Tripod, adapter joint incl. carrying bag for tripod and antenna
- CAP converter V2
- UFZ 132 WLAN/USB adapter
- 15-m coaxial cable

Recommended accessories

- EV 06 outdoor connection plug | 218464
- 12 V power supply unit | 1683660
 Adapter cable | 197500004
 For connection to a 230-V socket
 (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 tripod mast

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



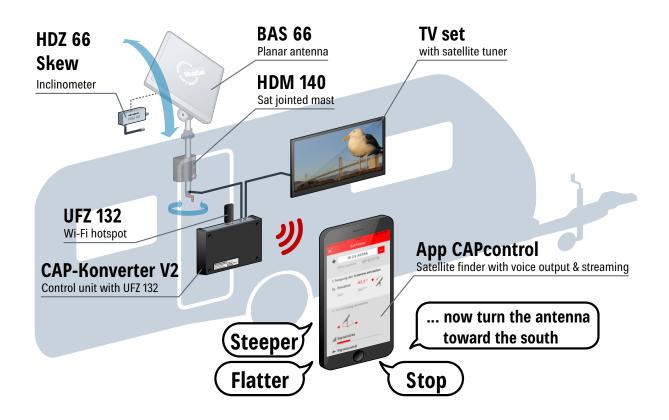
The complete HDM set consists of:

Order no.	Product	Description	RRP in €*
200000001	BAS 66 Skew	Planar antenna with twin LNB and skew adaptor plate; Reception range: 10.7–12.75 GHz, fits a HDM SAT jointed tripod mast	229.90
218456 or	HDM 140 or	HDM 140: SAT twin jointed tripod mast for BAS 66/BAS 66 Skew for caravan installation, 103 cm long	229
218457	HDM 141	HDM 141: SAT twin jointed tripod mast for BAS 66/BAS 66 Skew for caravan installation, short version, 76.5 cm long	220.
204500002	HDZ 66 Skew	Elevation indicator: Necessary for easy alignment using the app	99
204500001	CAP converter V2	Control unit: Necessary for easy alignment using the app	249
204500005	UFZ 132	WLAN/USB adapter: for wireless connection of suitable network-capable Kathrein receivers, IEEE 802.11n, WLAN hotspot	39.90

* KATHREIN Digital Systems GmbH recommended retail price

Extension set for existing SAT jointed tripod mast systems

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



The extension set comprises:

Order no.	Product	Description	RRP in €*
204500002	HDZ 66 Skew	Elevation indicator: Installation set for BAS 66/BAS 66 Skew	99
204500001	CAP converter V2	Control unit: Necessary for easy alignment using the app	249
204500005	UFZ 132	WLAN/USB adapter: for wireless connection of suitable network-capable Kathrein receivers, IEEE 802.11n, WLAN hotspot	39.90

Manual SAT antennas

HDS 166 antenna set 20310052

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

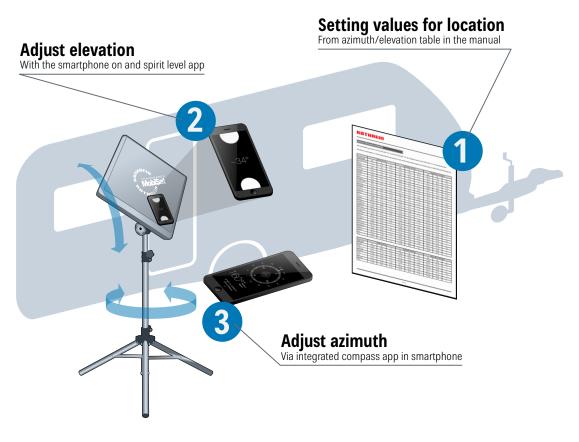
The BAS 66 Skew planar antenna is very well suited to searching for satellites and setting them up using a smartphone and a compass app (depending on the smartphone and operating system such an app may be pre-installed).

Align the antenna in three easy steps:

- 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 the Astra 19.2° East = 169.80°), and turn the antenna in that direction



* KATHREIN Digital Systems GmbH recommended retail price



> Planar antennas BAS 66 Skew



Despite their small size the BAS 66 Skew planar antennas offer 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 29 for details)
- With integral twin LNB (two outputs)
- With skew adapter plate for reception optimisation at the edge of the satellite footprint

Recommended accessories

- HDM SAT jointed masts (HDM 140/141/143) (see page 29 for further details)
- HDZ 66 Skew elevation indicator
 UVP: EUR 99.-*

Elevation indicator

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
- East alignment of the antenna in conjunction 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
- The specified elevation and actual elevation are displayed in the receiver menu of the HDS 50/CAP control app
- The elevation can be displayed even when the skew is set
- Display of the set skew in the HDS 50/ CAP control app control unit
- No additional cabling necessary between antenna and receiver





* KATHREIN Digital Systems GmbH recommended retail price

TWIN

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

RRP in €*

249.90

- Frequency range: 10.70-12.75 GHz
- Power supply is achieved by the coaxial cable
- With integral twin LNB (two outputs)

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 HDTV/DVB-S2 compatible.



KEL 411 (single LNB)



Installation examples



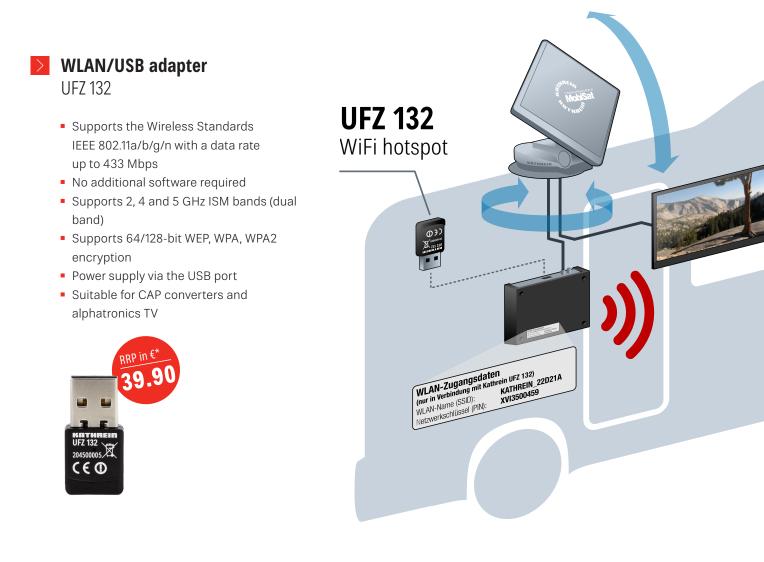


Our unique selling points

Smartphone/tablet controlling the antenna and receiving live streaming

The facility to tune in to 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 volume allowance.



App CAPcontrol

Control and streaming



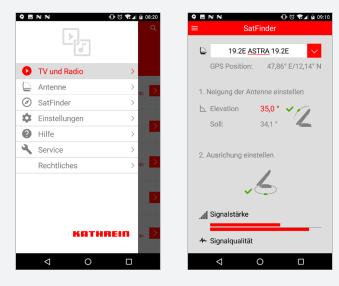


CAP control app Convenience and versatility as standard

The Kathrein "CAP control" 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 has an integral SAT finder, designed specially 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 alphatronics TV set with a Kathrein control unit, this antenna can now be aligned conveniently from a smartphone/tablet.

Features of the CAP control app

- Controlling the automatic antennas
- Live TV on a mobile terminal (smartphone/tablet)
- Displaying the software version and update availability for the fully automatic antennas
- Suitable for HDZ 60/66 elevation indicator
- SAT-finder integrated
- Voice assistance during the alignment of the HDS 166 plus antenna set





Satellite reception in vans

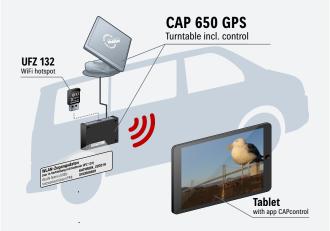
Vans – small, compact and lively – are nowadays greatly loved by caravanning enthusiasts. Compact solutions are necessary so that in such a vehicle you need not do without satellite reception. Our CAP 650 GPS fully automatic antenna and our HDS 166 or HDS 166 plus antenna sets satisfy precisely this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

Variant 1

TV reception with CAP 650 GPS

The compact CAP 650 GPS takes up only a small amount of space in the vehicle and in addition 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.



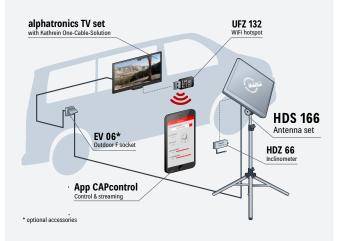
Variant 2

TV reception with HDS 166 or HDS 166 plus

For campers who would prefer not to mount an antenna on their vehicle, the HDS 166 antenna set is the ideal solution. It is characterised above all by a very small packed volume and quick alignment using a smartphone.

Optimum enhancement: 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 CAP control 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.

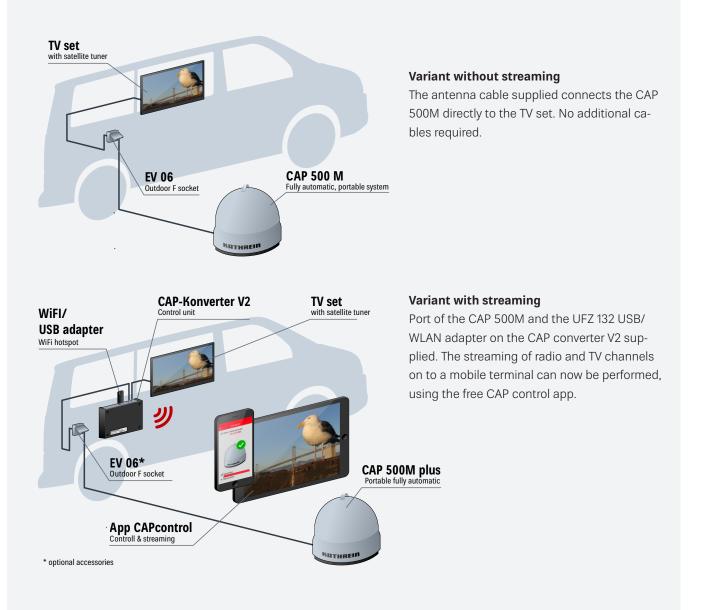


Variant 3

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

For campers who would prefer not to mount an antenna on their vehicle, but who nevertheless would like an automatic antenna, the CAP 500M or the CAP 500M plus set is the ideal solution. The CAP 500M does not have 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 there no TV set can be installed in the camper/mobile home, and the user wishes to stream to a mobile terminal.

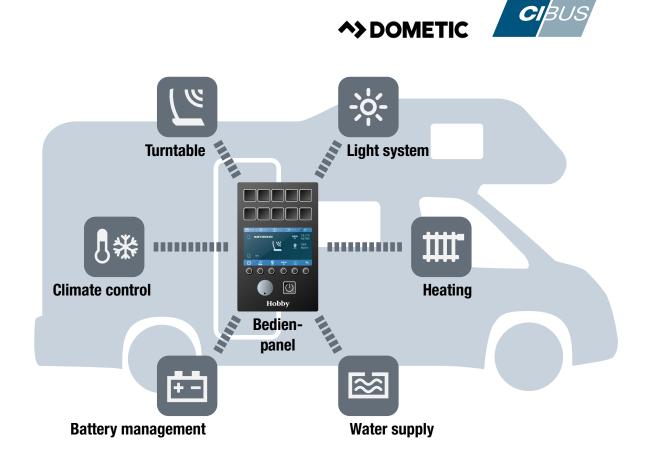


Central control of the fully automatic antenna via the CI-BUS

The digital lifestyle has also reached into caravans and mobile homes. The caravanning industry interface bus (CI-BUS) allows all electrical equipment that conforms to that standard to be easily connected to a central control unit.

Kathrein will ensure that in this way campers will in future be able to optimise their reception of broadcasts. Because they have an additional adapter, our CAP x50 GPS receiver-independent antennas are CI-BUS-capable and thus gives you an easy option for integration into CI-BUS systems. Mobile homes and caravans from the company Hobby have been 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.

Of course we seek to ensure that our products, including those with central control units, include a CI-BUS interface. So thanks to our cooperation with the company DOMETIC, our fully automatic antennas can be controlled using the DOMETIC central control unit.



Accessories and DVB-T2 antennas

External control unit for the CAP x50 GPS range

The HDS 50 external control unit allows you to control the CAP 650 GPS, 750 GPS, 850 GPS and 950 antennas easily and conveniently, even when no receiver or TV set is switched on. 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
- Including 3-m connection cable
- Dimensions (W × H × D in mm): 227 × 38 × 172



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 per-

formed by our service workshops.



Control unit

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

Roof pass-through

HDZ 100

- Protective casing for cable interfaces
- Suitable for cable continuation 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



* KATHREIN Digital Systems GmbH recommended retail price



UFZ 132

WLAN/USB adapter for live TV/radio streaming on mobile terminals in conjunction with the free CAP control 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 alphatronics TV-sets

> Outdoor outlet socket EV 06

Outdoor outlet socket with 5-m coaxial cable, port: 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 performed from the DVB-T2 receiver via the coax 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) 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 performed from the DVB-T2 receiver via the coax cable
- Accessories: Fastenings for wall or mast mounting,
 10 m connecting cable, F-type connector and IEC connector

* KATHREIN Digital Systems GmbH recommended retail price

SAT jointed masts and tripod stand

HDM 140, 141, 143, HDS 100

SAT jointed tripod 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 duralium; 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.







Mast HDM 140

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

Mast HDM 141 Like the HDM 140, but a shorter version, 76.5 cm long

Mast HDM 143

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



RRP in E* 69.-

HDM 135 duralium mast

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

* KATHREIN Digital Systems GmbH recommended retail price



Ideal for variable erection of the BAS 65 or KEA 650 SAT antennas, extendable rotating extension for simple alignment of the antenna in the installed state, Alu tripod stand with 1.5 mm wall thickness (lightweight and very stable), Securing pegs for stabilisation on the ground, incl. carrying bag

>

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

Master/slave switch HDS 42

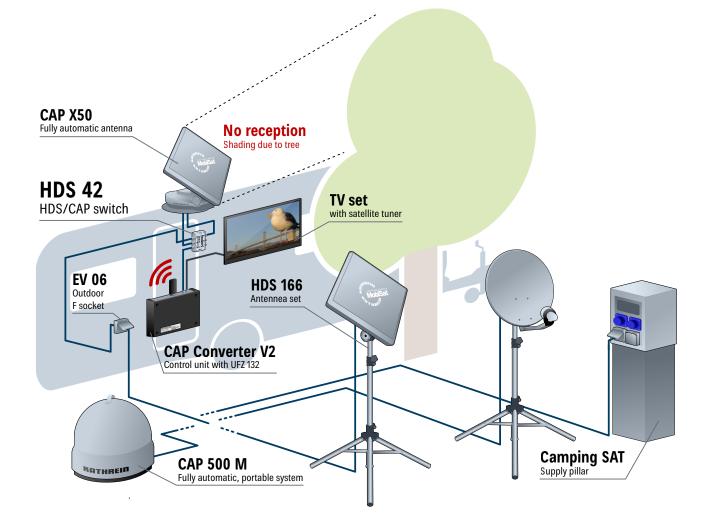
The HDS 42 master/slave switch was developed for customers who have an offset antenna in addition to a fully automatic antenna, or who want to make use of a SAT signal available at the location.

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 acts as a central unit, the free CAP control app can be used across both reception paths. You can use the app to view freely receivable transmitters on a smartphone or tablet.



* KATHREIN Digital Systems GmbH recommended retail price



Display unit HDS 66

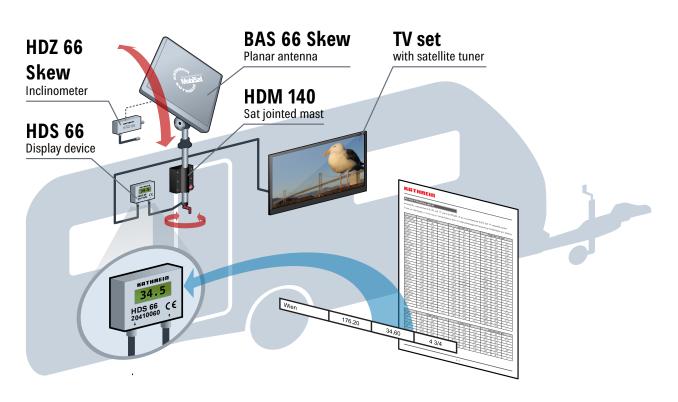
 Displays the actual elevation from the HDZ 60 or HDZ 66

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

Туре	CAP converter V2	
Order no.	204500001	
Sat IF band [MHz]	950-2150	
Input level range [dBµV]	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 × F socket	
TV/STB	1 × F socket	
Control signals supported (TV input)	DiSEqC™1.0/22 kHz; 14/18 V	
USB	1×2.0	
Ethernet	1 × RJ45	
Control unit	1 × RJ12	
Permissible ambient temperature [° C]	-10 to +45	
Weight net/gross [kg]	0.5/0.65	
Dimensions device/packaging (W x H x D) [mm]	227 × 38 × 172/260 × 90 × 206	

Туре	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 device/packaging (W x H x D) [mm]	29.3 × 7.5 × 15/95 × 147 × 15
Weight [kg] net/gross	0.02/0.05

Туре	BAS 66 Skew	BAS 65	
Order no.	200000001	20010032	
Application	Mobile use	Stationary use	
Installation of	HDM 140, 141, 143	Wall, mast, boom, flat surface	
Reception range [GHz]	Switchable: 10.70-11.70 (0 k	Hz) - 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	\pm 65 (wall mounting), 360 (mast installation)	
Dimensions net/gross [mm]	$500 \times 500 \times 109$ (without support)/600 $\times 600 \times 200$	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

Туре	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
Diameter parabolic reflector approx. [cm]	85	60	-
Space required radius/height [cm]	90.8/98.8	80.7/84	88/70
LNB	2 switchat	ole 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 reflector [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

Туре	CAP 500M CAP 500 Plus		
Order no.	203500003 203500004		
Input frequency [GHz]	10.7-	12.75	
Polarisation	horizonta	al/vertical	
Antenna gain [dBi]	3	1.0	
EIRP min. [dbW]	51		
Satellite search time typ. [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		

Туре	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 d	isplay	
Picture format		16:9 wide	-screen	
Resolution		1920 × 108	0 full HD	
Contrast ratio	3000:1		1000:1	
Brightness value	250 cd/m2	230 cd/m2	250 cd/m2	300 cd/m2
Response time [ms]		< [
Viewing angle [H, V]		178, 1	178	
tuner		PAL B/G, NTS	SC, SECAM	
Sound, music performance [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			
Casing colour	brushed anthracite			

Туре	HDS 166 HDS 166 plus		
Order no.	20310052	203000002	
Dimensions of the tripod stand, (height, stand diameter, tube diameter [mm]	1500 max., 1200 max., 35		
Dimensions of the antenna BAS 66 Skew (W \times H \times 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)[mm]	13.8/15.1		
Packaging dimensions (W \times H \times D) [mm]	177 × 792 × 1030		

Туре	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

Туре	CAR 150 WIFI DUO 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		
Current consumption, typical [mA]	170		
Power consumption typical [W]	2		
Permissible ambient temperature [° C]	-40 to +75		
Dimensions (W × H × D) [mm]	109 × 50 × 103		
Weight [kg]	0.295		
Туре	CAR 150 WIFI DUO antenna		
GNSS			
Frequency range [MHz]	1575.42-1610		
Polarisation	RHCP		
LNA gain [dB]	28 ±2		
Impedance [Ω]	50		
Ports	SMA plug		
LTE			
Frequency range [MHz]	698-960/171-2690		
Polarisation	Linear		
Gain [dBi]	3		
Impedance [Ω]	50		
Ports	2 × SMA plugs		
WiFi			
Frequency range [MHz]	2400-2483.5/4900-5825		
Polarisation	Linear		
Gain [dBi]	2		
Impedance [Ω]	50		
Ports	2 × RP-SMA plugs		
Mechanical data			
Protection class	IP67		
Weight [kg]	approx. 0.55		
Dimensions (W × H × D) [mm]	⊘ 110 × 55		

Туре	DAB+ 1 mini	DAB+ 10 tower	DAB+ 100 highline	
Display	OLED display	2.4 inch colour display	3.2 inch colour display	
Frequency range	UKW 87.5–108 MHz			
		DAB+ 174.928-239.200 MHz		
Antenna system	Dipole antenna 3.5 mm jack input	Dual band WiFi built-in antenna, DAB/FM telescopic antenna	Dual band WiFi external antenna, DAB/FM telescopic antenna, F socket	
Favourites memory	10 DAB+, 10 FM	30 memory slots (10 Inter	net radio, 10 DAB+, 10 FM)	
RMS output power	1.6 W	7 W	2 × 7 W	
Audio equaliser	-	Flat/Jazz/Rock/Movie/C	lassic/Pop/News/My EQ	
AUX input		3.5 mm stereo		
Headphone socket	-	3.5 mm	n stereo	
Optical digital output		-	S/PDIF stereo	
Wired Ethernet		-	10/100 MBit/s RJ45 port	
WiFi to IEEE 802.11 a/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	C and AAC	
Playback formats	-	Compatible with M	P3, 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 s	streaming (DLNA 1.5)	
Streaming providers	-	Spotify, Deezer, Tic	lal, Napster, Qobuz	
Sound quality improvement	-	Qualcomm®	° aptX™ audio	
Sleep Timer		Yes		
Alarm clock function	-	Ye	es	
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 batter- ies with recharge function	-	
General				
Power supply/charging port	Micro-USB port 5 V 1 A	External power supply unit (sup- plied): 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 1.5A	
Charging current	500 mA			
Operating temperature	0 °C to +35 °C	0 °C to	+40 °C	
Remote control		-	Batteries 2 × AAA	
Android & Apple supported app	-	Connection to the	ne 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

Caravan service partners

Germany

- 1 alphatronics GmbH Breitengraserstraße 6 90482 Nuremberg Tel.: +49 911 216 554 40 info@alphatronics.de
- 2 CSS Caravan-Sat-Service GmbH repair workshop Bahnhofstr. 110 83224 Grassau, Germany Tel.: +49 8641 69984-27 service@css-grassau.de
- 3 Rabe Elektrofachhandel GmbH Beim Bahnwärter 4 89257 Illertissen, Germany Tel.: +49 7303 901 413 0 info@rabe-elektrofachhandel.de
- Wohnwagen Vogt GmbH Koblenzer Str. 53 66115 Saarbrücken, Germany Tel.: +49 681 482 549 70 info@wohnwagen-vogt.de
- 5 Knocks Motors GmbH & Co. KG Schulland 1 34474 Diemelstadt-Ammenhausen, Germany Tel.: +49 5694 990 990 service@knocks-motors.com
- 6 Williges Elektronik Service GmbH Solinger Straße 13 28199 Bremen, Germany Tel.: +49 421 504 021 info@williges-elektronik.de
- Wohnmobile & Caravans Linke Grevenbarg 1
 23970 Kritzow/Wismar-Ost, Germany Tel.: +49 3841 283 758
 wohnmobile-linke@t-online.de

8 SP:Minke

Hauptstraße 75 21266 Jesteburg, Germany Tel.: +49 4183 2222 minke-jesteburg@t-online.de

 Motor Home and Caravan Service Zivkovic
 Kölner Straße 59
 45481 Mülheim an der Ruhr, Germany
 Tel.: +49 208 62 68 350
 ReiWo-Service@arcor.de

10 Günther Reizner

Breinloher Weg 11 91166 Georgensgmünd, Germany Tel.: +49 917 270 022 60 reisemobilservice@t-online.de

- 11 Caravan Reisemobile Böhm Bischofswerdaer Landstraße 3 01920 Elstra, Germany Tel.: +49 357 93 397 641 caravan-boehm@gmx.de
- 12 HAMPL CARAVAN MC Rent Gera Liebschwitzer Str. 148 07551 Gera, Germany info@hampl-caravan.de Tel.: +49 365 20 58 822
- M. Michalk GmbH & Co Automobile KG Am Juliustrum 21 13599 Berlin, Germany Tel.: +49 30 338 902 0 www.michalk-automobile.de

Austria

1 Auto Heiss Schießstand 3a 6401 Inzing, Austria Tel.: +43 5238 540 55 info@campingheiss.at

- 2 KATHREIN Digital Systems Vertriebs GmbH Gnigler Straße 56 5020 Salzburg Tel.: +43 662 875 531 32 josef.bauer@kathrein-gmbh.at
- 3 Wohnwagen Pusch GmbH Linzerstraße 138 4810 Gmunden, Austria Tel.: +43 7612 676 00 office@pusch-wohnwagen.at
- 4 Sulzbacher GmbH Hymer Reisemobile Goldenberg 1 4070 Eferding, Austria Tel.: +43 7272 254 2 christian@sulzbacher.at hymerteile@sulzbacher.at
- 5 MOBOS e.U. Herbert Schmid Sarobagasse 25 2103 Langenzersdorf, Austria Tel.: +43 664 524 526 2 office@mobos.at

6 Kledo Reisemobile Gradnerstraße 66 5055 Graz, Austria Tel.: +43 316 272 715 ringwald@kledo.at

7 Falle GmbH Maria Galler Straße 59 9500 Villach, Austria Tel.: +43 4242 325 40 fahrzeuge@falle.at

Switzerland

 KHC Service GmbH Grenzstrasse 20, 5525 Fischbach-Göslikon, Switzerland Tel.: +4176 589 5779 info@caravan-technik.ch

2 Farelec Fischer Mirchelgässli 6, 3532 Zäziwil, Switzerland Tel.: +41 31 711 48 37 technik@campingfisch.ch

3 Vulku Valentin Caravan Service A Ramél 23

> 6593 Cadenazzo, Switzerland Tel.: +41798 983 033 info@caravanticino.ch

Czech Republic/Slovakia

KARAVANYPRO s.r.o. F.V. Veselého 193 00 Prague 9 – Horní Pocernice Czech Republic Tel.: +420 720 705 139 info@karavanypro.cz

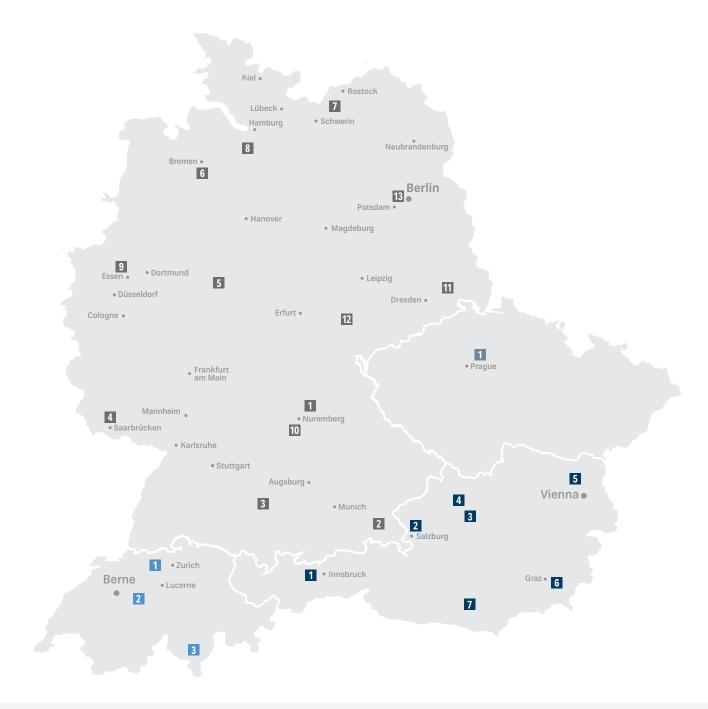
We're looking for you!

Would you like to become a Kathrein Caravan service partner?

Please apply at:

KATHREIN Digital Systems GmbH Anton-Kathrein-Straße 1–3 83022 Rosenheim, Germany Tel.: +49 8031 619 33-00

www.kathrein-ds.com info@kathrein-ds.com



Advice and Information

Germany

KATHREIN Digital Systems GmbH Eiselauer Weg 13 89081 Ulm Tel: +49 731 270 909 70 support@kathrein-ds.com

Austria

KATHREIN Digital Systems Vertriebs GmbH Gnigler Straße 56 5020 Salzburg Tel: +43 662 875 531 office@kathrein-gmbh.at See **www.kathrein-ds.com/support/ kundenberatung** for further information on the subjects of service and support





Bluetooth



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 with display of DAB service and information
- Integral rechargeable battery
- Including an antenna cable (dipole antenna)
 (3.5-mm jack cable) and USB port cable (USB micro) for charging (5 V/1 A)









Illustration actual size





services

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

DAB+ 10 tower

The DAB+ 10 tower brings you 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 control 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.

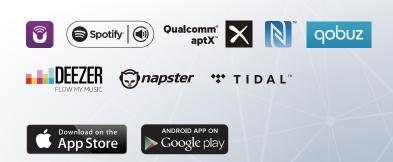
Features

- Internet radio/DAB+/UKW-RDS
- Deezer, Tidal, Napster, Qobuz and Spotify Connect
- Bluetooth for audio streaming
- UNDOK[™] app for playback activation
- 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)









Domestic sales

KATHREIN Digital Systems GmbH Eiselauer Weg 13 89081 Ulm order@kathrein-ds.com

Austrian sales

KATHREIN Digital Systems GmbH Gnigler Straße 56 5020 Salzburg Tel.: +43 662 875 531 Fax: +43 662 878 344-9 office@kathrein-gmbh.at www.kathrein-gmbh.at

International sales

KATHREIN Digital Systems GmbH Eiselauer Weg 13 89081 Ulm international-sales@kathrein-ds.com www.kathrein-ds.com | Sales International

Technical Support Service

KATHREIN Digital Systems GmbH Eiselauer Weg 13 89081 Ulm Tel.: +49 731 270 909 70 Fax +49 731 92 767-22 support@kathrein-ds.com

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