

# CAP/HDS Switch

## About These Application Notes

This document is part of the product.

- ▶ Read these application notes carefully before using the switch for the first time.
- ▶ Perform all operating steps described in these notes in the specified sequence.

For the most up-to-date version of this document, visit the Kathrein website at [www.kathrein-ds.com](http://www.kathrein-ds.com).



Keep these notes in a safe place for future reference and include them with the unit when passing it on to the next user.



## Features

- The HDS 42 automatically detects which system (fully automatic or manual) is receiving a TV signal and forwards the signal to the receiver/TV set, thus eliminating the need for reconnecting the coax cable
- No power supply required
- Connections: F connectors
- For indoor installation

## Scope of Supply

- HDS 42
- 1 x cross-head screw M4x8
- Application notes

## Transport and Storage

- ▶ Use the original packaging for transport; store the device in a dry place
- ▶ Make sure there is no water condensation build-up

## Intended Use

The HDS 42 is suitable exclusively for mobile satellite reception. Any use other than that described in these application notes is not permitted and will lead to loss of warranty and guarantee as well as to exclusion of liability. This also applies if the device is modified or retrofitted.

## Installation and safety instructions



- The HDS 42 may only be installed in dry rooms
- Do not install on or against easily combustible material
- The equipment must be provided with an equipotential bonding wire (Cu, at least 4 mm<sup>2</sup>)
- The safety regulations set out in the current EN 60728-11 and EN 60065 standards must be complied with
- Fasteners: screws, max. Ø 4 mm
- Connectors: RF connectors 75 Ω (F series) according to EN 61169-24

## HDS 42 Switch

The HDS 42 is used for automatically switching the satellite signal on a TV set/receiver between a receiver-independent, automatic turntable and the HDS 166 antenna set.

This eliminates the need for reconnecting the coax cable when changing the source of the satellite signal.

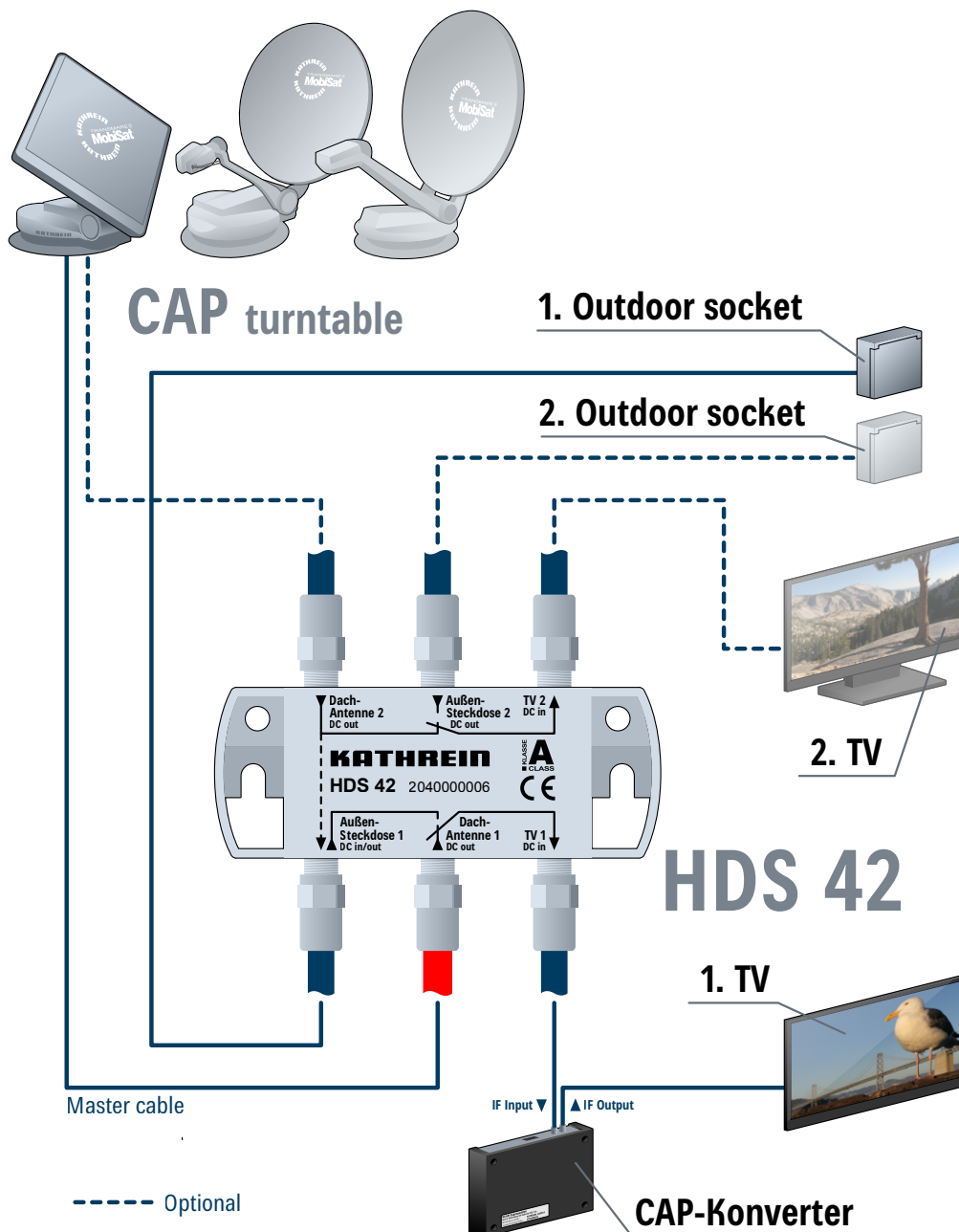
### Practical application:

If your fully automatic system has no direct line of sight of a satellite (no signal), e.g. due to an obstacle (tree, building, etc.), you can simply connect the signal from a manual satellite system, which is freely positionable, to your TV set/receiver via the external socket. The HDS 42 automatically switches over the signal.



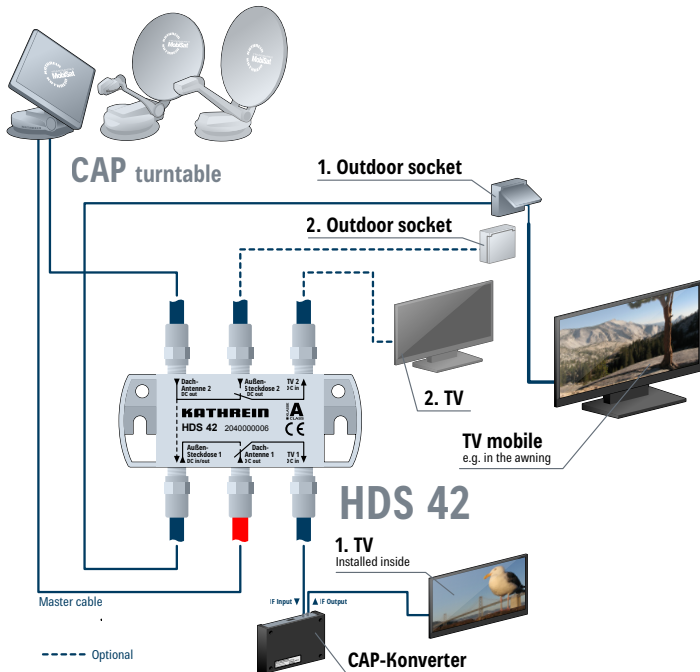
The HDS 42 can only be used in combination with the CAP converter, software version 5.11 or higher.

## Installation



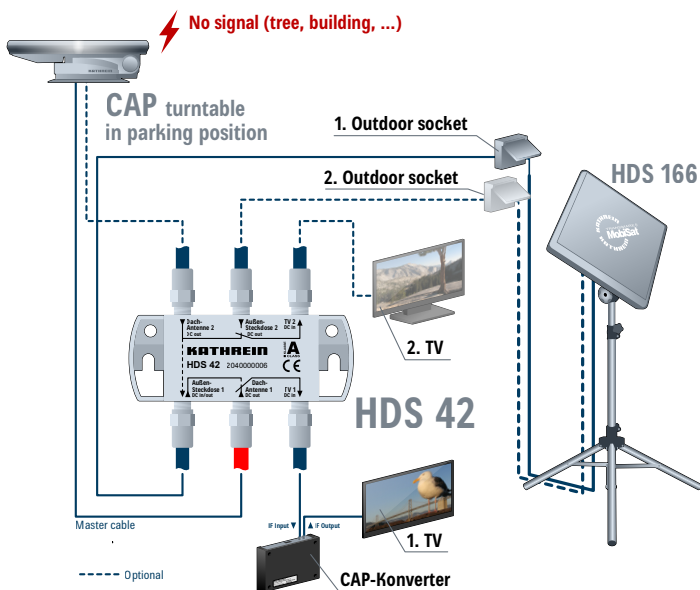
## Application Examples

### Reception via roof antenna



If reception via the roof antenna is possible, a TV set can be operated at the external socket 1 (e.g. in the awning). In this case, the twin cable of your roof antenna is used. The external socket 2 has no function in this mode.

### No reception via roof antenna



If reception via the roof antenna is not possible, a manual antenna (e.g. HDS 166) or a satellite signal (e.g. from the campsite operator) can be connected to the external socket 1 (software version 5.20 and higher). The alignment of a manual antenna can be performed via the CAPcontrol app. If a signal is also connected to the external socket 2, you can operate two TV sets independently of each other.



When using a CAP turntable, it must be moved to the park position.

## Technical Data

Type   Order No.		HDS 42 2040000006
Frequency range inputs/outputs SAT	MHz	950–2150
Connection loss (all connections)	dB	2
Return loss (all connections)	dB	10
Input decoupling	dB	20
Subscriber decoupling (TV 1 → TV 2)	dB	20
Power consumption	mA	30
Power dissipation 14 V/18 V	W	0.42/0.54
Remote supply current, inputs	mA	400
Impedance	Ω	75
Permissible ambient temperature in operation	°C	-20 to +55
Dimensions (L x W x H)	mm	86 x 59 x 26
Packaging dimensions	mm	195 x 165 x 115
Weight (approx.)	kg	0.115

## Disposal



### Electronic Equipment

Electronic equipment is not domestic waste – in accordance with Directive 2012/19/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of 04th July 2012 on waste electrical and electronic equipment, it must be disposed of properly. At the end of its service life, take this unit to a designated public collection point for disposal.