

## Scope of delivery

- 1 decoder module with installation material
- 1 adapter plate
- 2 flat ribbon cables
- 1 15-pin adapter cable Submin-D/Euro-AV
- 1 installation instructions

## General

The **DNS UNIVERSAL** serves for retrofitting the analog GRUNDIG SAT twin cassettes (series **33x** and series **12xx**) and the GRUNDIG headend stations **STC 50** and **STC 1880**.

The following equipment, for example, can be connected to this retrofit kit :

- licensed decoder (descrambler)
- video recorder (e.g. for operation in a hotel), or
- video cameras (e.g. for monitoring playgrounds).

The kit is suited for coupling in and out video and audio signals.

In addition this retrofit kit can remotely be controlled via a 0/12 V switching voltage, for example, to switch between the signals from a monitor video camera and SAT TV or SAT radio broadcasts.

The external equipment is switched via the 12 V switching voltage input, pin 3 of the Sub-Min-D socket, into the signal path.

Most decoders (descramblers), video recorders and video cameras deliver a 12 V switching voltage at the EURO/AV socket (pin 8 ).

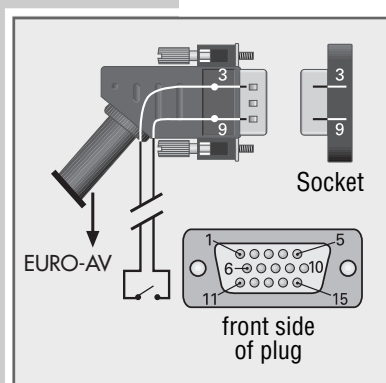
If the connected equipment does not provide a 12 V switching voltage, please refer to the paragraph "Switching the picture/sound signal of external equipment permanently into the signal path" on next page.

## Remote switching

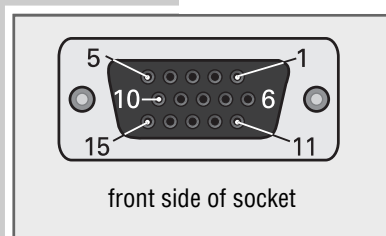
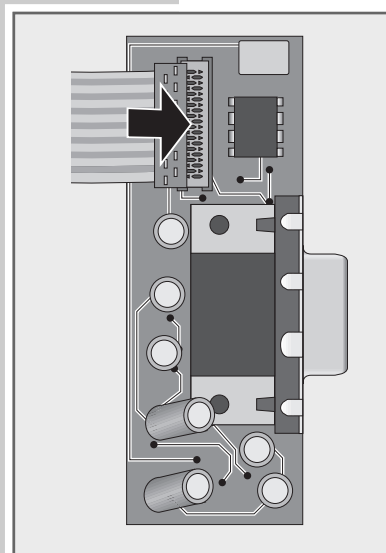
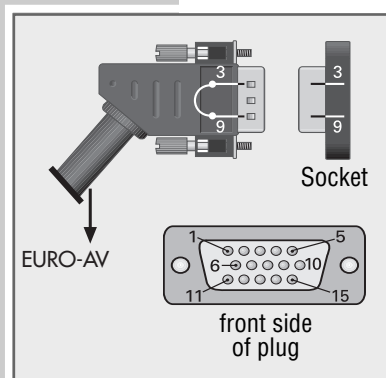
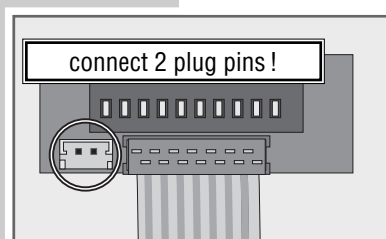
It is possible to remotely switch between the video/audio signals of SAT broadcasts and the external equipment.

Switching can be effected, for example, manually, or via a timer, or via a dimming switch.

- 1 Connect the remote switch to pin 9 (12 V/10 mA switching voltage) and pin 3 inside the 15-pin plug of the adapter cable supplied (see Fig.).



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## Switching the video/audio signal of external equipment permanently into the signal path

- 1 Connect the two pins on the component or solder side of the adapter board with each other (see Fig.)

or

inside the 15-pin plug of the enclosed adapter cable, connect the Pin 9 (12 V/10 mA switching voltage) with the Pin 3 (see Fig.).

### Note!

Only if the external equipment and the cassette are connected via the modified adapter cable, the video/audio signal from the external equipment is switched into the signal path of the cassette.

- 3 Complete the retrofit kit (decoder module, adapter plate and flat ribbon cable).

### Important

How to install the retrofit kit into the cassette or headend station is described in the corresponding user manual.

## Pin assignment of the Sub-Min-D socket

- 01 = Audio – left input
- 02 = Composite signal input, uncontrolled
- 03 = 12 V– switching voltage input
- 04 = Baseband output (unclamped, PAL deemphasis)
- 05 = Composite signal output (clamped, PAL deemphasis)
- 06 = Audio – right input
- 07 = —
- 08 = Earth
- 09 = 12 V–/10 mA switching voltage output
- 10 = —
- 11 = Earth
- 12 = Audio – left output
- 13 = Audio – right output
- 14 = —
- 15 = —