

**HD C.500****Digital HDTV Transmission System**

**COFDM-based HDTV  
Transmission System  
with MPEG-2  
Video compression**

**Main Features**

- ▶ DVB-T COFDM modulation
- ▶ 60 ms Latency only
- ▶ Input formats: 

720 x 480i	29,97 Hz	1440 x 1080i	29,97 Hz
720 x 576i	25,00 Hz	1440 x 1080i	25,00 Hz
1280 x 720p	59,94 Hz	1920 x 1080i	29,97 Hz
1280 x 720p	50,00 Hz	1920 x 1080i	25,00 Hz
- ▶ Receiver with digital diversity
- ▶ ASI input and output at transmitter and input as well as output at receiver
- ▶ Integrated OLED and membrane keys for easy setups
- ▶ Automatic recognition of SD- and HD-signals

**Applications:**

By using state of the art DVB-T COFDM modulation and digital diversity, the HD C.500 system provides superior performance in non-line of sight and high multipath applications. Low delay allows lip-synchronous recording of wireless video and ambient sound. It's very small dimensions and low weight together with the superior performance make the HD C.500 system a perfect solution for the "First Mile", like e.g. outside broadcast (ENG), mobile and airborne applications.

## Specifications

### Transmitter:

HD-/SD-SDI/ASI-In:	1 x SMPTE 292M/SMPTE 259M, w/embedded audio, BNC 75 Ω
Audio-In:	2x balanced audio, line level, Lemo sockets
ASI-Out:	1 x ETSI TR 101891, BNC 75 Ω
ASI-In:	1 x BNC 75 Ω
Antenna:	1 x female connector type N, 50 Ω
COFDM Modulation:	QPSK, QAM16, QAM64, 2k Mode, selectable bandwidth: 6, 7, 8 MHz selectable FEC: 1/2, 2/3, 3/4, 5/6, 7/8 selectable Guard-Interval: 1/32, 1/16, 1/8, 1/4
RF-Output:	2.4-2.4835 GHz, optional 2.2-2.7 GHz, in 500 kHz steps
Control:	local control via 6x keypad and 1,5" OLED
Power:	IDX® V-Mount, (Anton Bauer® mounts optional), 9V...18V, 12W
Dimensions:	185 x 110 x 34 mm (body w/o mounts and connectors)
Weight:	800 g

### Receiver:

HD-/SD-SDI-Out	2x SMPTE 292M/SMPTE 259M, w/embedded audio, BNC 75 Ω
Audio-Out	2x balanced audio, line level, XLR sockets
ASI-In:	1 x ETSI TR 101891, BNC 75 Ω
ASI-Out:	1 x ETSI TR 101891, BNC 75 Ω
Genlock	2 x in/Loop-through BNC 75 Ω
Antenna:	2x digital diversity inputs, 2x BNC 50 Ω
Control:	local control via 6x keypad and LCD
Power:	90...260V AC, 56 W max.
Dimensions:	Half 19", 1 RU

### Encoding Specifications:

System Encoding:	Transport Stream according to ISO/IEC 13818-1
MPEG-2	MPEG-2 according to ISO/IEC 13818-2
End-to-End-Delay:	60 ms
Encryption	AES128 (option)

### Order information:

Order number:	100-88750 Transmitter	400-88710 Receiver
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