

C.480

Digital Diversity COFDM Video/Audio Back-Monitoring-System

KERN



**Mobile
Receiver and
Transmitter with
2 times digital
Diversity-Receiver**

Main Features:

- ▶ Digitaler DVB-T COFDM Receiver and Transmitter for the 2,4 GHz ISM Band
- ▶ Digital Diversity Receiver for improved Reception in Non-line of Sight and Multipath Applications
- ▶ MPEG-2 Decoder, PAL
- ▶ With SDI and CVBS Input
- ▶ Small and rugged Design, ideal for mobile applications as a Back-Channel-System
- ▶ Integrated Down-Converter in the receiver
- ▶ Easy to use
- ▶ „Made in Germany“

Applications:

Because of the proven DVB-T technology, together with the COFDM modulation and Diversity reception, the receiver can be used everywhere, where no line of sight between transmitter and receiver is given. Specially during Steadycam applications the system is used. The transmitter and/or receiver can be mounted by means of the tripod thread as a stationary system. By means of adaptor (V-Mount or Anton Bauer) the transmitter can be adapted to the camera. If the receiver is attached to the camera, the whole system serves as a back channel system. Ideally suitable in the area of sports stadia or also in the studio.

Specifications:

Video Specifications:

Composite Video (CVBS):
SDI

Composite 1Vpp, PAL B/G , 1x BNC 75 Ω
SMPTE 259M, 270 Mbit/sec, 525@30i, 1 x BNC 75 Ω

Audio Specifications:

Analog

Asymmetric Mono, Line Level, 1 x Lemo Triax

Encoder Specifications:

System Encoding:

MPEG-2 Transport Stream according ISO/IEC 13818-1

Video Encoding:

MPEG-2 Video according ISO/IEC 13818-2

Audio Encoding:

MPEG Audio Layer II Encoding according ISO/IEC 11172,
16 bits, 48 kHz, 256 kbit/sec

End-to-End Latency:

<400 msec

RF Specifications:

COFDM Modulation:

QPSK

Transmitter RF Output:

100 mW, 1x SMA 50 Ω

Receiver RF Input:

Noise figure 1.0 dB, 2 x SMA 50 Ω

Frequency Range:

10 channels from 2.406 to 2.478 GHz in 8 MHz-steps

Physical Specifications:

Transmitter Size/Weight:

164 x 105 x 65 mm, 630 g

Receiver Size./Weight:

165 x 105 x 80 mm, 690 g

Operating Conditions:

-20...+50 °C, 90% humidity not condensing, 6.000 m altitude

Transmitter power supply:

10...24 V, 820 mA, 3pin Binder-Connector or optional via battery mount

Receiver power supply:

10...24 V, 820 mA, 3pin Binder-Connector or optional via battery mount

Compliance:

CE approval :

CE 78 100 5682 !

Additional:

Battery mounts
(Option)

Anton Bauer oder Sony V-Mount auf beiden Seiten, oder kein Adapter

Support (Option):

3/8" UNC Thread (for tripod mount)