

R1000 HD COFDM

COFDM Point to Point HD System



- ✓ Full HD (1920 x 1080p @ 30fps)
- ✓ COFDM Modulation
- ✓ Light Weight
- ✓ Body Worn/UAV Applications
- ✓ Audio/Data Transmission
- ✓ Available as OEM
- ✓ H.264 Encoding
- ✓ DVB-T Compliant

The R1000 HD Tx and USB Rx are a powerful solution for applications requiring high quality wireless transmission of high-definition video, audio and data. There are many options for the R1000HD Tx depending on the required deployment scenario. Example transmitters include vehicle and pole mounted units as well as body worn and UAV type applications.

The R1000 HD product range supports various options for frequency band, output power, channel bandwidth and video encoding. Transmitters are available from 300MHz up to 6GHz. The use of an 8MHz channel bandwidth will give broadcast quality video, with narrowband options available for deployments requiring a higher spectral efficiency. Video encoding is industry standard H.264 with AAC or MPEG audio.

The R1000 HD is suitable for line-of-sight and non-line-of-sight transmission. Increased range may be achieved by selecting transmission mode, booster amplifiers and antenna type. Video is received using the R1000 HD USB diversity receiver.



R1000HD
(Transmitter)



R1000HD
(Receiver)



R1000 HD COFDM Datasheet

RF

Frequency range	1.2 to 1.4GHz, 2.3 to 2.5GHz (other frequencies on request)
Tuning steps	1MHz
Receiver type	Diversity
Receiver sensitivity	-94dBm

Video/Audio

Video input	HDMI 1.3 CVBS
Video resolution	HD 1920 x 1080p/i and 1280 x 720p/i PAL/NTSC
Audio input:	HDMI PCM Stereo line-in

Transmitter

Output power	100mW (+20dBm)
Control interface	RS232 38400 baud
Input voltage range	8-14VDC
Power consumption	7.5W
Dimensions	85mm x 65mm x 25mm
Weight	132g
Indicators	Power LED
Connectors	SMA Jack (RF out) Micro HDMI (HD video input) 2.5mm socket (serial control) 3.5mm socket (analogue video and audio) Neutrik Nanocon (power input)

Software

Transmitter	Control Software
Receiver	Control / Live View / Record / Stream
Recommended requirements	Windows 7 x64 or higher 4GB RAM 2USB ports i3 or equivalent

Modulation

DVB-T Bandwidth	5, 6, 7, 8MHz
DVB-T Guard	1/32, 1/16, 1/8, 1/4
DVB-T FEC	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T Modulation	QPSK, 16QAM, 64QAM

USB Receiver

Input voltage range	5VDC (powered from USB port)
Power consumption	3.3W
Dimensions	110mm x 53mm x 26mm
Weight	168g
Indicators	Power LED Video link LED
Connectors	2 x SMA Jack (RF in) Mini USB (to PC)

Accessories

HD Cameras
Booster Amplifiers
Antennas
USB to Serial Control Cable for Tx
USB Locking Cable for RX
Micro HDMI Cable
Neutrik Nanocon Power Input Cable for TX
Analogue video/audio input cable for TX

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