



ULTRA SD/HD

SD/HD DVB-T compliant COFDM digital video transmitter

THE MOST COST EFFECTIVE COFDM TRANSMISSION SOLUTION ON THE MARKET

Rotoconcept's RQ4 Ultra HD offers exceptional value and performance, utilizing high end fully DVB-T compliant digital COFDM video transmission at a very low price point.

- DVB-T / Proprietary signal format
- 2 to 8 MHz bandwidth
- VHF to 6 GHz
- Software selectable MPEGII/H.264 video codec

FLEXIBILITY FOR A VARIETY OF APPLICATIONS

Ultra HD was designed with the end user in mind. Be it aerial, ground robots, broadcast or industrial, you can be sure Ultra HD stands up to the challenge. 100mW to 15W of RF output is sure to get the toughest jobs done. Software selectable MPEG II and H.264 video codecs complement a variety of features, such as selectable channel bandwidths, the choice of DVB-T, ISDB-T and proprietary signal formats along with optional encryption and a variety of receiver options which include stand-alone, USB as well as Ethernet out.

Low cost does not mean low quality! Our systems are effective, customizable, and much more affordable than our competitors, providing maximum value.

What is the advantage of COFDM? (Coded OFDM)

The primary advantage of COFDM over single-carrier schemes is its ability to cope with severe channel conditions, such as narrowband interference and frequency-selective fading due to multipath.

What wireless range can Ultra HD achieve?

Ultra is able to transmit images from 500m to 100km+, depending on line-of-sight conditions, frequency, bandwidth and environmental variables.

“Out of all the many video transmitters we have tried, Rotoconcept's Ultra is the only video system that actually delivered what was promised” – Minnesota Robot Manufacturer and client.

APPLICATIONS



SPECS

FEATURES:

- Custom RF power output options as required
- Wideband DVB-T compliant 6, 7, 8 MHz modes
- Narrowband 2, 3, 4, 5 MHz modes
- Full frame rate SD or optional HD video
- PAL and NTSC modes can be specified or system will auto-detect
- Easily programmable by either pushbutton control or via USB with provided software

Technical details

Frequency	100 - 2 600 MHz (option for 2 600 MHz to 6 GHz)
RF output	Custom as needed
Modulation	COFDM 2, 4, or 8k QPSK, QAM16, QAM64
Encoding	MPEG2 or H.264
Audio	2 channels
Power Input	9 – 30 V DC (Amp dependent)
Power Consumption	1 A at 500 mW output, but varies with selected amp
Tuning Steps	1 KHz steps if desired
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/4, 1/8, 1/16, 1/32
RF out connector	Typically SMA, or Custom (Please specify)
Video connector	Composite (in SD configuration), Composite, choice of HDMI or HD-SDI in SD & HD configuration
Power connector	2.1 mm jack, Amphenol milspec
Management	Pushbutton or software via USB
Temperature	0 to 50 C, available -40 to 60C amp dependent
Humidity	0 to 95% non-condensing