

# Rotoconcept Robotics

Rotoconcept designs and builds unique solutions for the transmission of wireless digital video and data feeds via UHF and microwave transmission. We provide our clients with solutions that are flexible and easy to integrate into existing systems, giving our clients the ability to upgrade from or replace existing analog systems with digital COFDM.

We build high quality equipment at significantly lower prices than many of our top competitors, providing substantial value for our clients without sacrificing quality.

Rotoconcept video transmitters are available on any frequency from VHF all the way up to 6Ghz.

Existing COFDM systems tend to be cost prohibitive for most manufacturers' applications, whereas our RQ4-DH does not only provide DVB-T compliance as well as narrow band operation, but it is also highly cost effective and very easy to use.



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**RQ4-XD DVB-T/Narrow-band COFDM video transmitter with ultra-wide frequency range**

If narrow-band operation is required for increased receiver sensitivity, RQ4DH is the preferred solution. It is capable of transmitting full frame rate MPEGII SD video in a 1/2/3/4/5Mhz channels, but still supports DVB-T compliant 6/7/8Mhz channel widths. With up to 1W of transmit power from VHF all the way to 2.5Ghz, RQ4DH is a qualified contender for NLOS and high risk applications where reliable operation is a must. Available in SD or full 1080i HD with HDMI or HD-SDI input. Contact us for receiver options which include diversity, as well as Ethernet or 3G output for seamless RTP streaming.

<p><b>Features:</b></p> <ul style="list-style-type: none"> <li>• Up to 30 dBm rf power</li> <li>• Transmit range: 120Mhz to 2.1Ghz with continuous tuning</li> <li>• Wide-band DVB-T compliant 6/7/8Mhz modes</li> <li>• Narrow-band 1/2/3/4/5 Mhz modes</li> <li>• Full frame rate SD video or 1080i HD</li> <li>• PAL &amp; NTSC Support</li> <li>• MPEGII and optional H.264 codec</li> <li>• Easily programmable via provided programmer</li> <li>• QPSK/QAM16 and QAM 64 modulation</li> <li>• &lt;50ms end to end latency, depending on receiver used.</li> <li>• 128-bit encryption</li> </ul>	<p><b>Specs:</b></p> <p><b>Dimensions:</b> 160X120X51.5mm  <b>Operational Temp:</b> -10 to +50C  <b>Power:</b> 12VDC (Custom available)  <b>Power consumption:</b> 11W @ 500mW output  <b>OFDM:</b> 2000 carriers DVB-T, 400 narrow band  <b>Tuning steps:</b> 1kHz  <b>FEC:</b> 1/2, 2/3 3/4 5/6 7/8  <b>Guard Interval:</b> 1/4 2/3 3/4 5/6 7/8  <b>RF-out connector:</b> SMA, RP-SMA, N (Custom)  <b>Power connector:</b> 2.1mm jack, Amphenol mil spec  <b>Management:</b> Via Serial Port or push buttons.</p>
<p><b>Optional Accessories:</b></p> <ul style="list-style-type: none"> <li>• Repeater</li> <li>• OSD</li> <li>• IP67 enclosure</li> </ul>	<p><b>Custom options:</b></p> <p>Available SDI input          Custom connectors          Custom RF output power</p>

