

## HDX502/602/702



HDX02



HDX02 with V-Mount Plate

### Applications:

- High performance video assist & broadcast applications
- Sports Events
- Reality shows
- ENG – Electronic News Gathering
- UAV/UGV/AUV
- High end tactical missions

### Features:

- L, S or C band operation (model dependent)
- H.264/MPEG4 Part 10 HD/SD video decoder
- Light weight, yet robust.
- Broadcast grade video and audio through a 6, 7 or 8MHz channel.
- 16 channels configurable via front panel or serial port (PC GUI)
- Conforms to COFDM DVB-T standards.
- 2 audio channels – embedded and analog audio output
- Built-in or External Down-converters
- Optional – Video Streaming via internet.

The Avalon RF *HDX* Series COFDM HD Digital Diversity Video Receiver is our latest leading edge design achievement. Never content with our customers having to settle for less, our design offers what the HD customers have been patiently waiting for - cost effective solution for end to end latency of less than two frames.

The HDX02 is a two-antenna diversity receiver intended for demanding, long range, high mobility HD wireless video applications. It is designed with a small form factor such that it can be used as a small receiver, mounted behind a monitor, rack mounted or made portable with a V-mount or AB plate attached. A bright OLED display shows all relevant link information, even from a distance. A separate SD output is available for monitoring link performance and quality.

The COFDM digital transmission of H.264 compressed video in QPSK ensures a robust video link with greater range. External BDC's allow long cable lengths up to 150 ft to the antennas making it versatile for different applications.

## Specifications:

**Frequency Range:** Standard Models -  
 HDX502: L-band receiver with a tuning range of 900 MHz- 1250 MHz, 1.3 -1.7 GHz , 1.7GHz-2.1GHz (specify band while ordering).  
 HDX602: S-band receiver with a tuning range of 2.1GHz-2.5GHz.  
 HDX702: C-band receiver with a tuning range of 5.6-6 GHz

Please call for other frequency ranges or other frequency bands

**De-modulation:** COFDM (DVB-T), 2K carriers; signal auto detected

**Video:** HD/SD auto detected  
 HD -1080i30, 1080i25, 720p60, 1080PsF24, 1080PsF23.97 and 1080PsF25  
 SD- 480i/30 and 576i/25; SDI and Composite video output

**Video output:** 2 BNC's, 1 each for SDI and Composite Video, 75 ohms

**Audio:** Embedded audio in SDI/HD-SDI output and analog audio output (balanced)

**Audio Output:** Stereo Line level 1Vp-p, 600 ohms

**Audio Connector:** XLR 5 pin

**Options:** Internal BDC's – for antenna cable less than 10ft; front panel connectors, User data, IP streaming

**User Interface:** Front panel with OLED display and navigation keys, Serial Com port

**Power:** 10 – 24V DC input, external universal input power adaptor supplied

**Size:** 8.5" (216mm) W x 1.75" (45mm) H x 12.125" (308mm) D

**Weight:** 4 lbs (2 Kg)

**Ordering:**

Model	Frequency Band/Range	Front Antenna Input	Internal BDC	Data	IP Streaming	Dual Rack-Mount
ODX502	L (900MHz- 1. 25 GHz, 1.3-1.7 GHz, 1.7 –2.1 GHz)	- F	-I	- D	- S	- R
ODX602	S ( 2.1 GHz - 2.5 GHz)	- F	- I	- D	- S	- R
ODX702	C ( 5.6 – 6 GHz)	- F	- I	- D	- S	- R

Avalon RF reserves the right to change specifications without notice or obligation. If a specification(s) is(are) critical to intended application or system, please specify at the time of ordering. Doc Rev: B