

Palladium™ II Digital Video Transmitter

Pd2-TX

The Palladium Series of digital video transmitters provides exceptional video quality in high multipath environments. They are ideal for use inside buildings, in urban areas, and other applications where multipath would cause video tearing or breakup in analog signals.

All Palladium II series transmitters are programmable to support 3 bandwidth modes:

- ▲ Wideband DVB-T (6, 7, 8 MHz)
- ▲ Narrow band (2.5MHz)
- ▲ Ultra-narrow band: (1.25 MHz)

The new DVB-T wideband mode provides compatibility with other manufacturer's DVB-T compliant products. Palladium II Series is also compatible with the existing Palladium product family when configured in the Narrow band (2.5 MHz) mode.

Enhanced range performance is available with the narrow band 2.5MHz channel spacing that uses approximately 400 carriers to transmit video, two audio channels, and a data channel. In addition the Ultra-narrow band mode 1.25 MHz provides the opportunity to boost that range, with consideration of a lower video frame rate of approximately 15 frames per second.

All Palladium Series transmitters are designed to transmit video, two audio channels, and a data channel. Transmitters may be located on adjacent channels without a guard band. AES encryption ensures secure communications.

The Palladium II 100 is ideal for concealments, robotic, and UAV applications, the package is only 4.2" x 2.6" x 0.65" (approximate dimensions not including connectors). Power consumption is 7.5 Watts. Operation time on a fresh set of Lithium batteries is approximately three hours. All connections are conveniently located off the ends of the unit.

Features:

- ▲ Power Output available 100 mW, 250mW, or 1 Watt
- ▲ Wideband DVB-T compliant: 6, 7, 8 MHz
- ▲ Narrow bandwidth 2.5 MHz wide channel
- ▲ Ultra Narrowband 1.25 MHz wide channel
- ▲ Full frame rate high resolution digital video
- ▲ Supports both NTSC & PAL formats
- ▲ MPEG-2 or MPEG-4 compression
- ▲ Two high fidelity audio channels
- ▲ AES 128 encryption, AES 256 optional
- ▲ Serial data channel 115.2 Kbaud max.

Accessories:

- ▲ 10 cell AA Lithium ION Battery Pack



Packaged Palladium II Digital Video Transmitter

Specifications

Physical Dimensions (approx.)	4.2" x 2.6" x 0.65" (not including connectors) 10.67 mm x 6.6 mm x 1.65 mm
Operational Temp	-10 degrees C to 60 degrees C
Input Voltage	10 to 16 VDC
Power Consumption Fully Operational	~ 7.5 W (11W 250mw)
PC Control Interface	RS-232.
Memory	Eight user-programmable configurations
Compression	Standard MPEG-2 or MPEG-4
DVB-T Compliant	2000 carriers
Chrominance Profile	4:2:0
Line	Standard PAL 625 or NTSC 525
Horizontal Resolution	704, 528, 480, 352 pixels selectable
Video Bitrates	1Mbps to 10 Mbps
Video Latency (end to end)	As low as 53ms
Output Frequency	U1 300-400 MHz C 4400-5000 MHz L 1710-1850 MHz S2/3 2200-2400 MHz *other bands under development
Channel Bandwidth	1.25/2.5 MHz (narrowband), 6,7,8 MHz DVB-T
Power	100 mW, 250 mW, or 1 Watt
Antenna Connector	SMA

- ▲ Microphone (2)
- ▲ DC Power Cable, flying lead
- ▲ Camera Power Cable, flying lead
- ▲ Programming Cable
- ▲ Antenna

Models

- ▲ Pd2-TX-100-XX Palladium II 100mW TX
- ▲ Pd2-TX-250-XX Palladium II 250mW TX

Ordering Information

- ▲ Call for availability