

Model - Pd-TX-xx

The most important thing we build is trust

## Palladium Digital Video Transmitter

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

All Palladium Series transmitters are designed for 2.5 MHz channel spacing and use approximately 400 carriers to transmit video and two channels of voice and a data channel. Transmitters may be located on adjacent channels without a guard band. AES encryption ensures users of secure communications.

The Palladium 100 is a small transmitter with a 100 mW RF power output. It's ideal for concealments and shorter range robotic and UAV applications. The package is only 5.5" H x 2.5" w x 0.75" D. Power consumption is 7.5 Watts. All connections are conveniently located off the end of the unit. Many users will want to power this device with disposable batteries.



Palladium TX shown with optional external power amplifier

## Features:

- Power Output available 100mW, 250mW, 1000mW
- Available in frequency bands from 1150 to 2500 MHz
- Narrow bandwidth 2.5 MHz wide channel
- Multipath resistant 400 carrier COFDM
- Full frame rate high resolution digital video
- Supports both NTSC & PAL formats
- Low latency MPEG-2 compression
- Two high fidelity audio channels
- Data channel, half duplex, RS232 up to 119K Baud
- AES 128 encryption, AES 256 optional

## Specifications:

Video Compression	MPEG II
Video Format	NTSC, PAL (User Selectable)
Power Input Voltage	External 9-16 VDC
Power Consumption	7.5W (100 mW only)
	11 Watts (250 mW)
	24 Watts (1000 mW)
Frame Rate	NTSC-30fps, PAL-25fps
COFDM	400 Carriers
Compression	Standard Mpeg-2 or MPEG-4
Control Port Interface	RS-232
Modulation	Selectable QPSK or 16QAM
Antenna Connector	SMA
Video Latency (end to end)	As low as 53ms
Operating Frequency	L1 1150-1400 MHz
	L 1710-1850 MHz
	S 2350-2500 MHz
	S2 2200-2400 MHz * other bands under development

For further information please contact:

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