

Palladium™ Digital Transmitter and Receiver Kit

Pd-TXRX-Kits

The Palladium Digital Kits

The Palladium Digital Transmitter and Receiver Kit includes everything you need to transmit and receive high-quality video using the most advanced digital technology. Simply connect your video source or camera to the transmitter input and follow the simple Quick Start instructions for connecting antennas and power.

This kit is ideal for use inside buildings, in urban areas, and in other applications where multipath would normally cause video tearing or breakup. Kit components include the Palladium Transmitter, Palladium Receiver, two magnetic mount receiver antennas, a dipole transmitter antenna, batteries, cables, and connectors.

The Palladium digital video transmitter provides exceptional video quality in high multipath environments. The transmitter and receiver are designed for spectrum-efficient 2.5 MHz channel spacing. Approximately 400 carriers are used to transmit video and two channels of voice and data. Palladium transmitters may be located on adjacent channels without a guard band. AES 128-bit encryption ensures users of secure communications.

Both receiver and transmitter have rugged milled aluminum housings. The Palladium Receiver integrates all the electronics required for RF reception, MPEG 2 decoding, COFDM demodulation and down converters into one small unit. It is ideal for reception of digital video in many applications.

The receiver front panel provides two Receiver Signal Strength Indicators (RSSI), one for each antenna/receiver pair. Eight preset channel configurations are front-panel selectable. A six-pin Hirose connector is used for programming, remote ON/OFF control, and power input. SMA connectors are used for the two antenna connections. A BNC connector is used for video output, a separate connector provides a data channel connection. There are also connectors for two audio channels at line level.

Performance is enhanced through the use of maximal ratio combining spatial diversity. The transmitted signal is received through two separate antennas, and then combined at the digital level within the receiver. This provides significant performance benefits when one antenna alone would encounter a deep null.

Features

- ▲ Palladium COFDM Digital Technology
- ▲ Palladium Digital Receiver
- ▲ TX power output of 100 mW, 250 mW, 1 Watt
- ▲ Two audio channels and one data channel
- ▲ Operating Bands 1150-2500 MHz (In bands)
- ▲ AES 128 bit Encryption/Optional 256 bit encryption



Specifications

Frequency Range	L (1710 - 1850 MHz) S2 (2200 - 2300 MHz) S (2350 - 2500 MHz)
Transmitter	Palladium Pd-TX-100, Pd-TX-250 or Pd-TX-1000
Power Output	100 mW, 250 mW, or 1 Watt
Receiver	Palladium Pd-RX-XX
Antennas	Kit 2 Two Magnetic Mounts with 12 ft cable (2) COL-5 (1) ANT-A-2 Kit 1 (3) ANT-A2 (1) ANT-2
Encryption	AES 128 bit (256 bit optional)
Battery Pack	10 AA (For TX), AC Power Supply for 1 Watt
Cables	VideoTX Multi I/O RX Audio Output RX Power Supply (AC) RX HiRose/Molex Power Microphone Programming Antenna
Adapters	SMA to TNC

▲ Battery Pack & AC Supply

▲ Palladium Digital Receiver

Model

- ▲ Pd-TXRX-100-XX-KT1 100mW Transmitter kit
- ▲ Pd-TXRX-250-XX-KT1 250mW Transmitter kit
- ▲ Pd-TXRX-1000-XX-KT1 1 Watt Transmitter kit
- ▲ Pd-TXRX-100-XX-KT2 100mW Transmitter kit
- ▲ Pd-TXRX-250-XX-KT2 250mW Transmitter kit
- ▲ Pd-TXRX-1000-XX-KT2 1 Watt Transmitter kit
- ▲ L1 band call for availability (1150-1400 MHz)

