

Handheld Video Transmitter

HVT

The Handheld Video Transmitter is the latest innovation in tactical video reconnaissance and digital video transmission from DTC. First responders will find the HVT valuable for search and rescue, assessing threats, physical security, and disaster sites. The HVT is an essential tool for fire/rescue, government, military, and law enforcement teams. Weighing less than seven pounds and completely portable, the HVT uses a Palladium digital transmitter and fits in a durable 9.8 by 9.0 by 4.8 inch package. Rechargeable Lithium

batteries provide a nominal runtime of three hours with all features ON. Even longer runtimes are achieved with the illuminator LED's and laser turned OFF. The LED's are ultra-bright and efficient, providing sufficient illumination for excellent video in complete darkness. A red spotting laser provides a safe method of effectively pointing the camera without the need for a monitor.

The HVT was designed to go virtually anywhere and to work well in virtually any environment from sunlight to darkness. A miniature color video camera is fitted in the center of the HVT, with dual banks of illuminator LED's in concentric circles around the camera. Two types of LED's are used with illumination beam-widths of 20 degrees and 45 degrees. This combination provides both a spot light and an effective flood light, with a combined output designed to recognize a person in a dark room at a 12 foot distance.

Features

- ▲ The HVT was specially designed for rugged use, high performance, and water resistance.
- ▲ The Camera produces high resolution color video with an auto focus lens and auto night shot.
- ▲ The Palladium digital Transmitter produces 250 mW (COFDM) in one of three bands: 1710 – 1850 MHz, 2400 – 2500 MHz, or 2200-2300 MHz.
- ▲ The transmitter has 8 programmable channels.
- ▲ The HVT system weighs only 6.5 pounds and measures just 9.8 x 9.0 x 4.8 inches.
- ▲ Submersion test exceed 30 minutes @ 1 meter.
- ▲ The HVT uses Rechargeable internal battery packs with 3hrs minimum runtime, or you can use external power
- ▲ Dual banks of illumination LED's.
- ▲ A 5mW spotting laser is visible for a minimum of 30 feet.
- ▲ May be decontaminated with 5 to 1 chlorine solution.

Model

- ▲ HVT1- 250-XX



Specifications

Video Transmitter

Video Format	NTSC or PAL
Video Compression	MPEG II
Frame Rate	NTSC-30fps
Latency (TX+RX)	54mS approx.
Operating Frequency	1710-1850 MHz or 2400-2500 MHz,
RF Power Output	250 mW

Modulation

COFDM	400 Carriers
Modulation	Programmable QPSK or 16QAM
Occupied Bandwidth	2.5 MHz
Guard Interval	1/16
FEC	Programmable 2/3, 1/3
Encryption Type	AES 128 bit key, (Optional 256 bit)

General

Battery type	Rechargeable internal lithium battery pack
Battery Life	Min 3 hrs
Illuminator	141 Candlepower total
Spotting Laser	5 mW (visible at 30 feet min)
Dimensions	9.8" x 9.0" x 4.8"
Weight	5.5 lbs
Package Integrity	IP67

Camera

Image	1/4 inch CCD
Resolution	500 TV Lines
Auto Iris	AES
Focus	Automatic