



Vislink's V-Net Solution collects, manages, and distributes mission critical actionable intelligence for crisis response. This end-to-end solution transmits video, voice, and data from the field to the decision makers who need it most.

As part of the V-Net Solution, the HDT-1000 digital transmitter meets the unique needs for sending high-quality HD video, audio and data transmission in highly demanding tactical environments. Software defined surveillance technology allows in-the-field system personality changes and upgrades without requiring hardware modification. Designed for rapid deployment, the rugged and compact HDT-1000 easily meets the tactical requirements for covert and overt surveillance of law enforcement, public safety, homeland security, and defense operations. The HDT-1000's low power consumption results in extended battery life and its small size make it ideal for concealments and portable use.

The HDT-1000 transmits High Definition (HD) video with up to 1080p resolution or Standard Definition (SD) video at 480i and supports a variety of video frame rates. Highly efficient H.264/MPEG-4 encoding provides real performance advantages over legacy MPEG-2 technology, including enhanced video quality and increased signal range and reliability. Multiple digital encryption options are available to prevent unauthorized intercepts when security is a must.



HIGH PERFORMANCE ADVANCED FEATURES

- RangeMaster[™] maximizes the transmission range, and sends video signals up to four times farther than COFDM/DVB-T transmission.
- DoubleVision[™] supports dual simultaneous SD video feeds through a single HDX-1000 transmitter.

Key Features

- Compact, Lightweight and Rugged Design
- Video / Audio / Data Transmission
- Multiple Encryption Algorithms
- Web Browser User Interface
- Up to 200 mW Output Power

Typical Applications

- Airborne Downlink Operations
- Covert and Overt Surveillance
- Law Enforcement and Public Safety
- Homeland Security and Defense

SPECIFICATIONS

GENERAL

Modulation

- DVB-T (standard) 6/7/8 MHz bandwidth
- COFDM-EN300-744, QPSK, 16QAM, 64QAM

VIDEO ENCODING

H.264/MPEG-4

■ SD/HD (standard feature)

- AVC/MPEG 4 (Part 10)
 - Profiles supported:
 Baseline profile
 - Main profile
 - Hi-Profile
 - Video Bit Rates
 Up to 12 Mbps maximum

MECHANICAL

Material

- Aluminium housing, anodized Dimensions
- 4.125" W × 2.87" L × 0.675" H (10.48cm W × 7.29cm L × 1.71cm H)

Weight ■ 0.75 lbs (340 g)

POWER OUTPUT*

- RF Output (High Power Mode)
 - 200mW (+23 dbm)
- *C3 band 30mW (+15 dbm) RF Output (Low Power Mode)
- 20mW (+13 dbm)
- *C3 band 8mW (9 dbm)

POWER SOURCE

- DC Input
- +10 to +32V

OPTIONS

- Heat sink for extended temperature range (1.5" x 2.49" x 1.06")
- AC Power Supply
- Breakout Cable specify Mic or Line Level

CONTROLS

- Local Interface 7 button local interface for
- control

LED Indicators

- Preset Number
- Audio Input Level
- RF Power Level
- Encryption

- RangeMaster Narrow Band, programmable, 1-10 MHz bandwidth QPSK
- LMS-T 10 MHz COFDM (optional-consult factory)

VIDEO INPUT FORMAT

Analog Composite

- (1 V p/p TIA/EIA RS170) ■ 720 x 480i NTSC 525 ■ 720 x 576i PAL 625
- SDI
- (SMPTE 259M 270 Mbps) ■ 720 × 480i @ 25/30fps
- 720 x576i @ 25/30fps HD-SDI

(SMPTE 292M - 1.5 Gbps)

■ 1920 x1080p @ 24, 25, 29.97, or 30 FPS

ENVIRONMENTAL

Operating Temperature

- 14° F to 149° F (-10° C to +55 °C) (Extended temperature range with optional heat sink)
- Storage Temperature
- -40° F to 167° F (-40° C to +75 °C) Humidity:
- 0 to 95% relative, noncondensing
- Altitude ■ 20,000 feet/ 6000 meters
- POWER CONSUMPTION
- L & S Band
- 10 Watts max.
- C-Band
- 12 Watts max.
- X-Band
- 14 Watts max

STANDARD EQUIPMENT

- DC Power Connector and Breakout Cable
- CD ROM User Manual

REGULATORY

- FCC Parts 15,90
- Video presence
- Alarm
- Remote User Interface
- RS-232, 10/100Base-T Ethernet

Configurable Presets

 16 user selectable configurations

■ 1920 x 1080i @ 24, 25, 29.97, or 30 FPS

Encryption (Available Options)

AES 128/256 bit key

■ 1280 x 720p @ 50, 59.94, or 60 FPS

ASI

- 188 byte, EN50083-9
- Wayside Data
- Up to 115.2 kbps (serial)
- Video Input Impedance

■ 75Ω unbalanced

FREQUENCY PARAMETERS

Band Support

Band	Frequency	
Ρ	300 to 400 MHz	
L	1.7 to 1.9 GHz	
S	2.0 to 2.5 GHz	
C1	3.1 to 3.5 GHz	
C2	4.4 to 5.0 GHz	
*C3	6.425 to 6.525 GHz	
For Custom Bands (Consult		
Factory)		

Frequency Stability 2.5 ppm Frequency Step Size 250 KHz

CONNECTIONS

Interface		Connector Type
RF Output		SMA Female
	Video A - NTSC/PAL Composite	BNC Female
Video	SD-SDI or HD-SDI (configurable)	(Configurable)
Input	ASI - Input from external encoder	
	Video B - NTSC/PAL Composite	21-Pin Receptacle
	(MPEG-4 DoubleVision mode only)	
Control / Audio		
RS-232: I/O for remote control panel or PC interface		
Wayside Data Input		
Audio 1	& 2 Input	
Set-up & Maintenance		RJ-45 (10/100)
(10/100 web browser interface)		
DC Power		4-pin LEMO female
DC Power Input: +10 to +32V		

AUDIO

Line Level

MIC Level

■ Line or Microphone (x2)

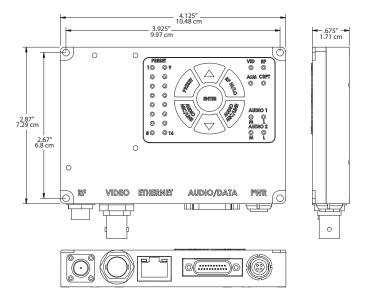
■ -57 dB, REF 1V/Microbar

600 Ω unbalanced

■ 5KΩ unbalanced

Phantom Power

■ 4.5 Vdc



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