



HD/SD Digital Hand Held Receiver

Overview

The HDH-1000 Series hand held receiver is designed to provide law enforcement and public safety personnel with real-time video allowing them to quickly assess tactical situations with a new level of flexibility, performance, and reliability. The HDH-1000 digital receiver is well suited for first responders and technical investigators in surveillance, Homeland Security, law enforcement, fire protection, and military UAV / UGV applications.

The lightweight and compact unit displays video imagery transmitted by aerial assets or frontline surveillance platforms. The integral 7" transreflective screen technology provides high quality viewing, even in direct sunlight. Battery life is also extended since the backlight is not constantly in use. The HDH-1000 also includes two audio channels to support running commentary from an orbiting aircraft direct to ground personnel.

The HDH-1000 receives High Definition (HD) up to 1080i resolution or Standard Definition (SD) signals while supporting a variety of video resolution formats and frame rates. These features make it highly adaptable to diverse mission requirements

The HDH-1000 is powered from a rechargeable IDX Lithium Ion battery. The auxiliary video output connectors make it easy to share the video with command staff via an external video monitor. The video imagery is also provided as an IP stream for connection to a LAN or video server network. Space Diversity antennas are a standard feature that utilize advanced MaxRC decoding technology to overcome geographical multi-path situations.

Features:

- Transportable operation for tactical deployment:
 - ◇ Police
 - ◇ Fire
 - ◇ Surveillance
- Built-in 7" transreflective LCD display for daylight viewing
- High Performance MaxRC Diversity Receiver
- H.264 / MPEG-4, MPEG-2 HD/SD decoding
- Touch Pad Control Surface
- External Video and Audio Connectors
- Rugged Packaging
- Integrated Mounting Plate accommodates IDX Series LiOn Batteries, providing approximately two hours of operation
- External DC power options
- Standard tripod mount on bottom of case
- Headphone output

High Performance Advanced Features:

- RangeMaster™ is an exclusive Vislink feature that increases the video transmission range up to four times farther than COFDM/DVB-T transmission.
- FadeFighter™ technology is an exclusive Vislink feature that greatly reduces video break-up from a fast moving aircraft or ground vehicle.

Specifications

General

RF Diversity

- Two-input MaxRC

Demodulation

- DVB-T (standard) COFDM-EN300-744
- RangeMaster™ (optional)
- FadeFighter™ – (optional)

Decryption

- AES 128/256 bit key

Digital Video Decoding

H.264/ MPEG-4: SD/HD

- Baseline, Main, and High profiles

MPEG-2: SD/HD

Video Output Format

ASI

- 188 bytes, EN50083-9

Ethernet

- 10/100Base-T UDP Unicast or Multicast

Composite or SDI (SMPTE 259M)

- 720x480 NTSC 525
- 720x576 PAL 625

HD-SDI (SMPTE 292M)

- 1920x1080i @ 25 fps
- 1920x1080i @ 30fps
- 1280x720p @ 50 fps
- 1280x720p @ 60fps

Video Viewing Screen

- 7" LCD-Transreflective

Audio

Line (Dual Channel)

- -10 to +4 dBV

Impedance

- 600 Ω unbalanced (Consult factory for options)

Environmental

Operating temperature

- 14° F to 149° F [-10° C to +55° C]

Storage temperature

- -40° F to 167° F [-40° C to +75° C]

Humidity

- 0 to 95% relative, non-condensing

Altitude

- 20,000 feet/ 6000 meters

Mechanical:

Material

- High Impact ABS Plastic

Dimensions

- 10.75" W x 9" H x 3.5" D
[27.3cm W x 22.86cm H x 8.9cm D]

Weight

- 5.0 lbs (11.0 kg)

Connections

RF Input (2)

- Type N (Female) 50 Ω

Audio 1 & 2

- 1/8" Stereo Headphone Jack

Control - RS-232

- DB-9 Female

Video A Output (Composite Video)

- BNC (Female)

Video B Output (Composite/SDI)

- BNC (Female)

Ethernet

- RJ-45

Configuration/Control

- 10/100Base-T

Power

- 4-pin XLR Male

Power Consumption

U/L/S Band

- 33 Watts max.

C1, C2, C3-Band

- 35 Watts max.

LED Indicators

- Preset Number
- Demod Unlock
- Decryption
- Decode Unlock
- Alarm Condition
- RSSI
- SNR

Remote User Interface

- RS-232, 10/100Base-T Ethernet

Configurable Presets

- 16 user selectable presets

Controls

Local Interface

- 7 button local interface for control

Power Source

DC Input

- +10V to +32V

Options

- AC Power Supply
- IDX Battery Pack

Standard Equipment

- DC Power Connector and Cable

Frequency Parameters

Band Support

Model	Range
HDH-1000P	300 to 400 MHz
HDH-1000L	L Band: 1.7 to 1.9 GHz
HDH-1000S	S Band: 2.0 to 2.5 GHz
HDH-1000C1	C1-Band: 3.1 to 3.5 GHz
HDH-1000C2	C2-Band: 4.4 to 5.0 GHz
HDH-1000C3	C3-Band: 6.4 to 7.1 GHz
HDH-1000ULS	UHF thru S-Band: 60MHz to 2.7 GHz

Frequency Stability

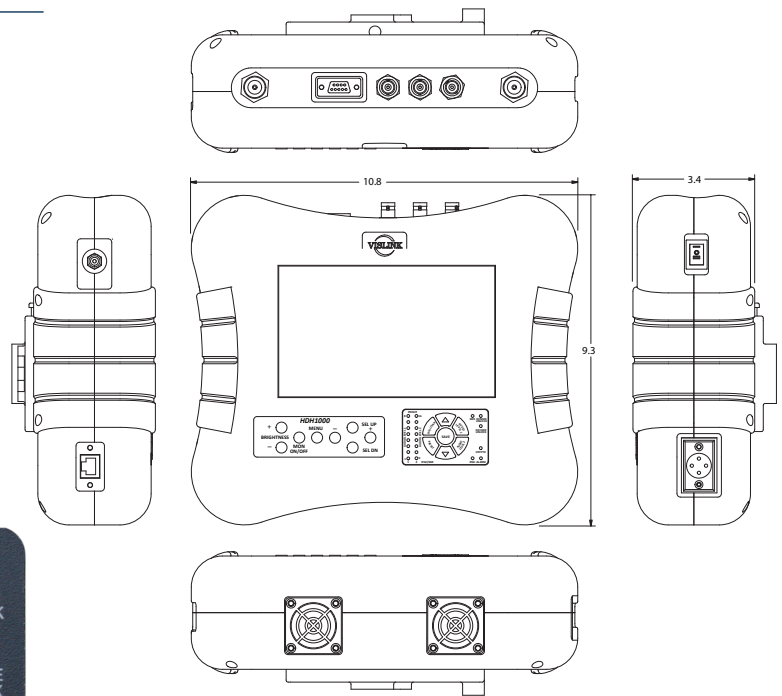
- 2.5 ppm

Frequency Step Size

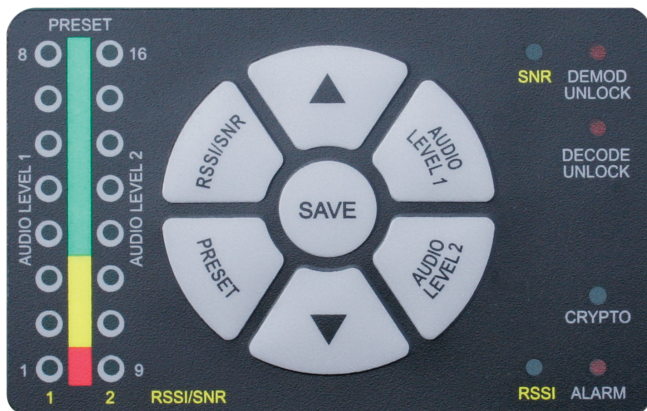
- 250 kHz up to 1.0 GHz
- 500 kHz above 1.0 GHz

Typical Threshold Sensitivity

- -95 dBm (QPSK, ½ FEC, 8 MHz)



HDH-1000 Dimensions



HDH-1000 Control Keypad

VISLINK
www.vislink.com