VISLINK



Next Generation Diversity Receiver

OVERVIEW

The HDR-5000 six-input standard and high-definition (SD/HD) digital receiver meets the unique requirements for live video, audio and data reception in highly demanding tactical, airborne, mobile, and command center environments. Packed with advanced features and technology, it is the ideal choice for receiving surveillance video in command vans, tactical communications vehicles, remote and central command sites for law enforcement, public safety, homeland security, and defense applications. The HDR-5000 has been streamlined for remote receive applications where reliable video transport via IP is a major requirement.

The HDR-5000 system is a versatile platform designed to receive encrypted COFDM signals from a variety of airborne, portable, body worn and mobile transmission sources. The HDR-5000 expedites transmission at the receive site by directly demodulating the signal into a transport stream, either ASI or IP, suitable for transmission over an IP network.

The HDR-5000 supports video streaming by providing an IP signal output, via real-time transport protocol (RTP) or User Datagram Protocol (UDP) formats. For enhanced reliability when operating within the RTP configuration, the HDR-5000 provides Forward Error Correction (FEC) encoding to increase the robustness of the transmission.

The HDR-5000's maximal ratio diversity combiner provides the greatest effective range consistent with the clearest video quality under the toughest operating conditions. The available six antenna diversity system is the most effective way to insure consistent signal clarity and system sensitivity in any environment, and especially in the cement canyons of a modern metropolitan city. The small footprint (3 1/2 inches/2 RU high) of the rack mountable chassis makes for a convenient and simple installation in just about any available space.

The HDR-5000 was designed with enhanced features for reliability and ease of use:

- As a key element in Vislink's software defined surveillance product suite, the HDR-5000 allows in-field feature upgrades without requiring hardware changes, in most cases.
- An interactive web browser graphical user interface (GUI) provides remote control and management enabling set up, configuration and diagnostics.
- Vislink's multi-mode digital demodulator assures the optimum in performance under the most difficult field conditions.
- Standard digital decryption modes, such as B-Crypt, are available for receiving secure transmissions.
- For environments where voltage fluctuations occur, the new fuse design is resettable and self-healing, therefore never requiring replacement.
- The HDR-5000 supports low-noise block down converters in frequency ranges between 1.7 and 7.5 GHz, serving most local, regional and federal requirements.

Features

- Flexible Software Defined Surveillance
- Video / Audio / Data Reception
- · Six Input MaxRC Diversity Inputs
- Multi-Function Outputs: ASI, IP streaming
- · Multiple Decryption Algorithms
- Multiple Demodulation Support
- Multiple RF Band Support
- · 2RU Rack Mounting
- Multiple User Selectable Presets
- Web Browser User Interface
- RTP Encapsulated Video Streaming
- SMPTE 2022, 2D FEC
- 2 Level Voltage Source for BDC

Applications

- IP Diversity Receive
- · Fixed Receive Sites
- · Central Command
- Covert Operations
- Tactical / Field Response
- · Mobile Command Van
- Crisis Management
- City-wide Video Collection
- · Air-to-Ground Downlink
- Wireless Camera Systems

Specifications

GENERAL

Diversity

Six-Input MaxRC

COFDM Bandwidth Support:

6, 7, 8 MHz

Demodulation:

• DVB-T (standard) COFDM-EN300-744, QPSK, 16QAM, 64QAM

Frequency Step Size:

• 250 KHz

Decryption:

Bcrypt1 - 128/256 bit key

AES 128/256 bit key

• BISS 1/E

FREQUENCY PARAMETERS:

Band Subbort:

• Dependant upon selected LNB

Frequency Stability:

• 2.5 ppm

Frequency Step Size:
• 250 KHz

Sensitivity (QPSK, 1/2 FEC, 8 MHz BW):

–95 dBm

VIDEO OUTPUT FORMAT

(two selectable outputs):

ASI:

• 188 bytes, EN50083-9

• 10/100Base-T RTP Streaming or UDP

CONTROLS:

Local Interface:

· Via webpage

Web Accessible Parameters:

• RF Controls (Dependent on

configuration)

 Preset number · Channel frequency

• Diversity COFDM bandwidth

S/N

• Pre-viterbi/Post-viterbi BER

• LQ (Link Quality)

• FEC (Forward Error Correction)

· Guard Interval

 Modulation ASI Bit Rate

· Wayside Baud Rate

Chroma Delay Mode

Encryption Key

Remote User Interface:

• 10/100Base-T Ethernet

INDICATORS:

Power

Status

• Signal (demod lock)

ENVIRONMENTAL:

Operating temperature:

• -10°C to +50 °C

Storage Temperature: -40°C to +70 °C

Humidity.

• 0 to 95% relative, non-condensing

MECHANICAL:

Mechanical Package:

• 2 RU 19" Rack Mount

Dimensions (to edge of connectors):
• 17" W x 20" L x 3.5" H

Weight:

• 10 lbs/ 4.5 kg

CONNECTIONS:

RF Input (6):

• BNC (Female) 75 Ω

ASI Outbut

Ethernet (back panel):
• RJ-45 (10/100Base-T) x4

Ethernet (front panel):

RJ-45 (10/100Base-T)

Power:

· 3-prong US Standard AC with serviceable fuse

Network/System Control

• Via RJ45 Ethernet Connection

HDMI - Controller Configuration Monitor

USB - Controller Keyboard, Mouse, Etc x4

POWER:

AC Power Input:

Auto sense 100 to 130 VAC

· 205 to 260 VAC

Power Consumption (Less LNBs):

28 Watts

STANDARD EQUIPMENT

AC Power Cord

CD-ROM Manual

OPTIONAL EQUIPMENT

Low Noise Block Downconverter (LNB)

Antennas

ORDERING INFORMATION

HDR-5000, Six-Input Diversity HD/SD

KAMELYON DOWNCONVERTER

GENERAL

Antenna Input:

• N-Type (F) 50Ω

UHF Output:

BNC (F) 75Ω

Noise Figure:

• <3dB

Phase Noise:

• -90dBc/Hz @ 10kHz offset

Spurious:

• <-60 dBm

O1P3:

>26 dBm

OPIdB:

• >14 dBm

Image/Half-IF:

· Rejection: >60dBc

COMPLIANCE:

(EN302064 EN301489 & ES202239)

FCC

• Static Discharge (IEC61000-4-2)

ENVIRONMENTAL:

Temperature:

-10° C to +55°C IP65 (14° F to 122° F)

• 12.5 to 24V DC

(via UHF output connector)

PHYSICAL

(Including Connectors)

Dimensions

• 152mm x 60mm [6" x 2.36"]

Weight

• 252 grams [0.56 lbs]



		Gain Mode	
Model	Frequency	Normal	High
L3025 - 1718	1.785 to 1.805 GHz	30 dB. (typ.)	45 dB. (typ.)
L3025 - 2024	2.0 to 2.4 GHz	26 dB. (typ.)	41 dB. (typ.)
L3025 - 1927	1.95 to 2.7 GHz	26 dB. (typ.)	41 dB. (typ.)
L3025 - 2732	2.7 to 3.2GHz	26 dB. (typ.)	41 dB. (typ.)
L3025 - 3236	3.2 to 3.6 GHz	30 dB. (typ.)	45 dB. (typ.)
L3025 - 4450	4.4 to 5.0GHz	24 dB. (typ.)	39 dB. (typ.)
L3025 - 6471	6.425 to 7.125 GHz	38 dB. (typ.)	53 dB. (typ.)
L3025 - 6875	6.8 to 7.5 GHz	38 dB. (typ.)	53 dB. (typ.)
Other hands are	possible contact us with ve	our requirements	







HDR-5000 Rear Panel Connections

