VISLINK

KAMELYON Series
HDR-3000

SD/HD Diversity Digital Video Receiver

Overview

The Kamelyon™ HDR-3000 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, 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.

As a key element in Vislink's software defined surveillance product suite, the HDR-3000 allows in-field feature upgrades without requiring hardware changes, in most cases. Vislink's multi-mode digital demodulator assures the optimum in performance under the most difficult field conditions. Standard digital decryption modes are available for receiving secure transmissions.

Decoders for both H.264/MPEG-4 and MPEG-2 are included as standard features, giving the HDR-3000 receiver significant advantages over the competition, and the only choice to offer the operational flexibility needed work equally well in tactical, mobile or command center applications, and in urban, suburban, or rural environments.

The HDR-3000 receives Standard Definition (SD) video at 480 line resolution and High Definition (HD) video up to 1080i resolution and supports a variety of frame rates. Two full-fidelity audio channels and one data channel are also provided. The front panel features a 2" LCD picture monitor for live viewing of the received video signal, and a second LCD monitor that presents a graphical, real time display of the receiver's key operating parameters. By using the key pad adjacent to this display, operators and service technicians have the ability to change programming pre-sets, or diagnose service issues rapidly. The same information is available remotely via an Ethernet web browser port on the receiver.

The HDR-3000'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-3000 supports low-noise block down converters in frequency ranges between 1.7 and 7.5 GHz, serving most local, regional and national requirements.

Features

- Flexible Software Defined Surveillance
- Video / Audio / Data Reception
- High Definition / Standard Definition Decoding
- Multiple Decryption Algorithms
- Six Input MaxRC Diversity Inputs
- H.264 AVC High Profile Decoding
- MPEG-2 4:2:0 Decoding
- Multi-Function Outputs: HD-SDI, composite video, ASI, IP streaming
- Multiple Demodulation Support
- Multiple RF Band Support
- 2RU Rack Mounting
- Multiple User Selectable Presets
- Web Browser User Interface

Applications

- Fixed Receive Site
- Covert Operations
- Tactical / Field Response
- Mobile Command Van
- Crisis Management
- City-wide Video Collection
- Air–to–Ground Downlink

VISLINK Law Enforcement & Public Safety

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
Wayside Date Rate: . . . up to 115.2 kbps
Decoding:

- H.264 (MPEG-4 Standard Part 10),
- MPEG-2 4:2:0 SD

Decryption (Available Options):

- Bcrypt1 - 128/256 bit key
- AES 128/256 bit key
- BISS 1/E

Frequency Parameters:

Band Support: . . . . . 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 Forma

(two selectable outputs):

ASI: . . . . . 188 bytes, EN50083-9
Ethernet: . . . . 10/100Base-T RTSP Server
HD-SDI: . . . . . SMPTE 292M

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

Composite (RS-170)

- 720x480 NTSC 525
- 720x486 PAL 625

Audio (2 Channels)

Level . . . . . 0 dbm
Impedance: . . . . . 600 Ω unbalanced

Controls:

Local Interface:

- 6 membrane button local interface for menu driven configuration user interface

Display Panel Parameters:

- RF Controls (Dependent on configuration)
- Preset number
- Channel frequency
- Channel offset
- Diversity COFDM bandwidth
- S/N
- Previterbi/post viterbi BER
- LQ (Link Quality)
- FEC (Forward Error Correction)
- Guard interval
- Modulation
- ASI Bit Rate
- Wayside Baud Rate
- Chroma Delay Mode
- Ecryption Key
- Video Type
- Audio Type
- Audio Mode
- Video Condition
- W/O PedestalLocked
- Audio Condition – Bit RateLocked

Remote User Interface:

- USB, 10/100Base-T Ethernet

Environmental:

Operating temperature: –10ºC to +50 ºC
Storage Temperature: . . –40ºC to +70 ºC
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 : . . . . . 11 lbs/ 5 kg

Connections:

RF Input (6): . . . . . TNC (Female) 75 Ω
Audio A: . . 1/4" Headphone RCA (Female)
Audio B: . . 1/4" Headphone RCA (Female)
Control/Wayside Data: . . . . . RS-232 DB9 (Female)
Video A Output: . . . . . BNC (Female)
Video B Monitor: . . . . . BNC (Female)
Ethernet (front panel):. RJ-45 (10/100Base-T)
Power: . . . . . 3-prong US Standard AC with serviceable fuse
Network/System Control (front panel): . . USB, RJ45

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-3000, Six-Input Diversity HD / SD

Kamelyon Down Converter

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
OP1dB: . . . . . >14 dBm

Image/Half-IF:
Rejection: . . . . . >60dBc

Compliance:

CE . . (EN302064 EN301489 & ES202239)
FCC . . . Static Discharge (IEC61000-4-2)

Environmental:

Temperature: . . . –10° C to +55°C IP65 [14° F to 122° F]
Power: . . . . . 12.5 to 24V DC (via UHF output connector)

Physical

(Including Connectors)

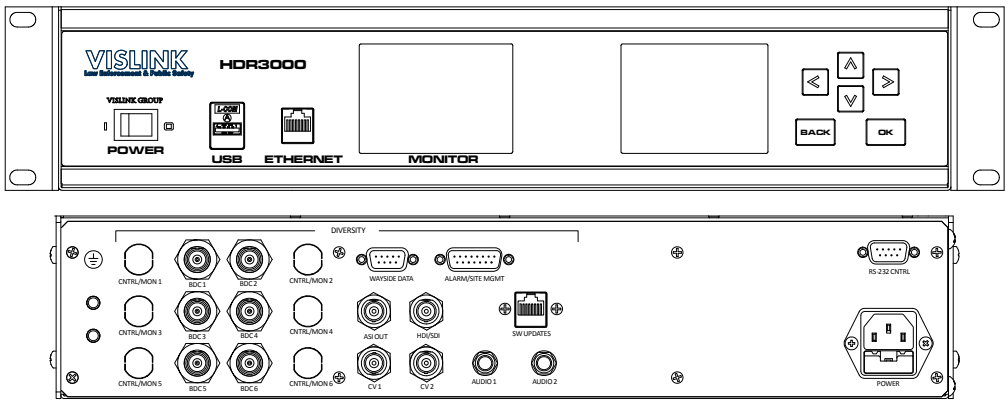
Dimensions

- 152mm x 60mm [6" x 2.36"]

Weight

- 252 grams [0.56 lbs]

Model	Frequency	Gain Mode	
		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 bands are possible, contact us with your requirements			



Front Panel Controls & Rear Panel Connections

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