

KAMELYON Series HDX-1100

OVERVIEW

Airborne video surveillance plays a pivotal role in law enforcement, public safety, homeland security, and defense operations. Vislink's Kamelyon™ family of products meets the challenge for top quality live video in air to ground applications under the most difficult urban, suburban, or rural environments.

The Kamelyon™ HDX-1100 is a fully integrated, high powered microwave transmitter, based on aircraft industry standards for ruggedness, size, and weight. Highly efficient H.264/ MPEG-4 Encoding is a standard feature, and MPEG-2 Encoding is an available option to provide both capabilities.

STANDARD FEATURES

- Minimal Weight Design (9.2 lbs.)
- Flexible Software Defined Surveillance
- Video / Audio / Data Transmission
- HD / SD Formats
- Touch Screen User Interface
- Field Upgradable Features
- Multiple Encryption Algorithms
- Up to 10 W Output Power
- H.264 AVC SD/HD Encoding BL/ML/HL Profiles
- MPEG-2 Encoding (Optional)
- Multiple Modulation Schemes
- Rugged Packaging
- Wide Range Voltage Input
- Remote Control Panel (optional) DZUS mounted or cockpit

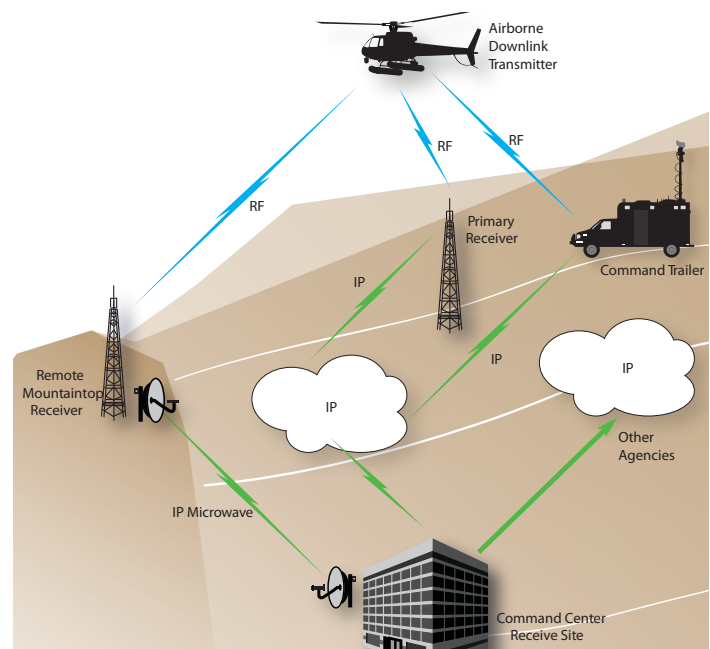
HIGH PERFORMANCE ADVANCED FEATURES

- 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.
- FadeFighter™ greatly reduces video break-up in dense metro area environment from a fast moving aircraft or ground based vehicle.

VISLINK



*Aircraft / Downlink
High Power HD/SD Transmitter*



Applications: Air-to-Ground Downlinks, Tactical and Field Response, UAV and UGV

SPECIFICATIONS

VISLINK

GENERAL

Modulation

- DVB-T (standard) 6/7/8 MHz bandwidth COFDM-EN300-744, QPSK, 16QAM, 64QAM
- FadeFighter (optional) 10 MHz COFDM
- RangeMaster (optional) - Narrow Band, programmable, 1-10 MHz bandwidth QPSK

Encryption

- AES 128/256 bit key

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

MPEG-2

SD/HD (available option)

- Profiles supported:
 - SP@ML, 4:2:0
 - MP@HL, 4:2:0
- Video Bit Rates:
 - Up to 15 Mbps SD
 - Up to 30 Mbps HD

FREQUENCY PARAMETERS

Frequency Stability

- 2.5 ppm

Frequency Step Size

- 250 KHz

Bands

Band	Frequency
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
X	8.1 to 8.5 GHz
Optional Bands (Consult Factory)	

VIDEO INPUT FORMAT

Analog Composite

- (1 V p/p TIA/EIA RS170)
 - 720 x 480i @ 25/30fps
 - 720 x 576i PAL 625

SDI

- (SMPTE 259M - 270 Mbps)
 - 720 x 480i @ 25/30fps
 - 720 x 576i @ 25/30fps

HD-SDI

- (SMPTE 292M - 1.5 Gbps)
 - 1920 x 1080p @ 24, 25, 29.97, or 30 FPS
 - 1920 x 1080i @ 24, 25, 29.97, or 30 FPS
 - 1280 x 720p @ 50, 59.94, or 60 FPS

ASI

- 188 byte, EN50083-9

Wayside Data

- Up to 115.2 kbps (serial)

AUDIO

Line Level:

- 0 dbm nominal

Line Impedance:

- 600 Ω unbalanced

POWER OUTPUT

RF Output:

- Up to 10 W (+40 dbm)
- (Consult factory for details)

ENVIRONMENTAL

Operating temperature

- +14° F to +122° F [-10° C to +50° C]

Storage temperature

- 40° F to +167° F [-40° C to +75° C]

Humidity

- 0 to 95% relative (non-condensing)

Altitude

- 20,000 ft / 6,000 m

MECHANICAL

Material

- Aluminum housing

Dimensions

- 3.56" W x 12.65" L x 7.62" H
- (9.60cm W x 32.19cm L x 19.35cm H)

Weight

- 9.2 lbs (4.2 kg)

CONTROLS

Local Interface

- Touch screen LCD – configuration and display
- Power Switch / Circuit Breaker

Web Browser Configurator

- (RJ-45 Connection)

Configurable Presets

- 9 user selectable configurations

POWER SOURCE

DC Input

- +10V to +32V

POWER CONSUMPTION

L & S Band

- 95 Watts max.

C-Band

- 95 Watts max.

X-Band

- 95 Watts max.

AVAILABLE ACCESSORIES

- AC Power Supply
- Cockpit Remote Control Unit, Dzus Mount, Part No. 907621
- Night Vision Filter (optional)

STANDARD EQUIPMENT

- DC Power Connector
- CD-ROM User Manual
- Multi-Conductor Breakout Cable

REGULATORY

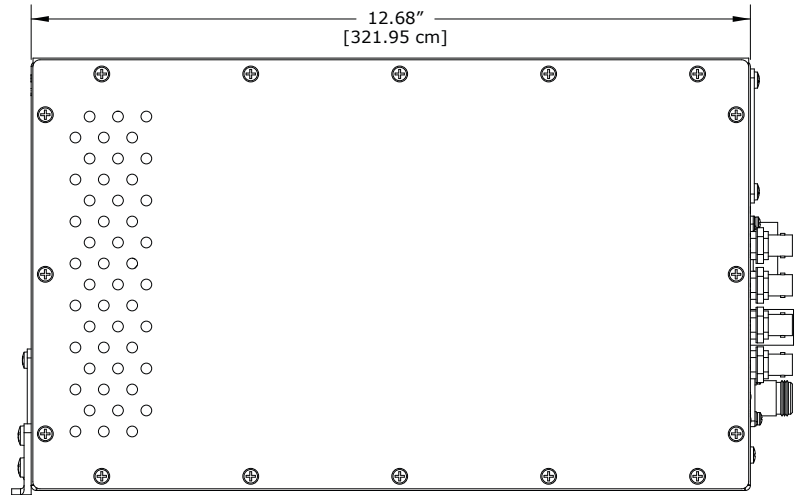
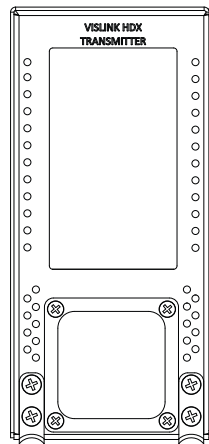
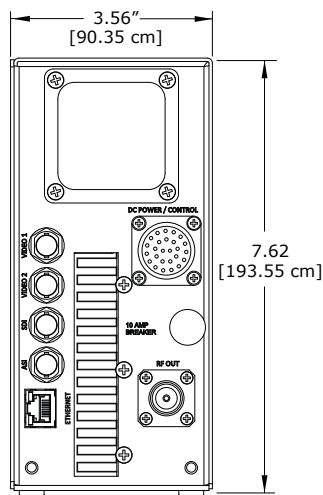
- FCC: Parts 15,90,74
- RTCA: DO-160F

CONNECTIONS

Interface	Connector Type
RF Output	Type N female -50 Ω
Video Input	BNC Female (4)
- Video 1 - NTSC/PAL composite - Video 2 - NTSC/PAL composite (MPEG-4 DoubleVision mode only) - SD-SDI or HD-SDI (configurable) - ASI - Input from external encoder	
DC Power / Control	26 pin Chassis receptacle (Bendix PT-02-16-26P)
- DC Power Input: +10 to +32V - RS232: I/O for remote control panel or PC interface - Wayside Data Input - Audio 1 & 2 Input	
Set-up & Maintenance (10/100 web browser interface)	RJ-45 (10/100)



Remote Control Panel - Part No. 907621



VISLINK SURVEILLANCE

View our entire product line at surveillance.vislink.com