



Data Link with Built-In Dual Video Encoder/Decoder For Commercial Drones & Robotics

SkyHopper PRO V offers a bi-directional Data Link with video processing & analytics capabilities specifically designed for commercial and industrial drones. By employing leading wireless technologies, the SkyHopper PRO V includes a **dual video inputs and outputs**, dual built-in video encoders / decoders, three camera interfaces and local recording ability.

SkyHopper PRO V delivers long range and Non-Line of Sight (N-LOS) communication that supports multiple transmission modes. SkyHopper PRO V supports Point-to-Point communication with multiple viewers and offers built-in flexibility to best optimize to specific customer challenges.

SkyHopper PRO V Key Features:

- Supports both Analog and HDMI Interfaces
- Low Latency
- Local Recording Ability
- SW and HW decoding (PC, Tablet and/or Monitor)
- Up to 5km Line-of-Sight (LOS) range
- Broadcast and Unicast Transmission Modes
- Encrypted & Secured
- Control, Telemetry and Full HD Real-Time Video
- Robust N-LOS Operation

SkyHopper PRO V also provides a full range of support services in an effort to optimize the use of the product, taking commercial and industrial drones to new heights. The SkyHopper PRO V Support Team is available to answer questions or assist at any given time, to guarantee all product benefits are maximized.



Product Highlights:

- **Dual Video Inputs and Outputs** with ability to use different cameras such as wide-angle & IR cameras
- Ability to transmit video as well as record video locally to the unit
- Long range Line of Sight operations
- Synchronized system enabling operation in multi-platform environment without degradation in throughput and performance
- Superior communication through N-LOS & urban areas using proprietary radio technology that finds its way around obstructions to carry a clear and solid radio signal
- Robust security and encryption with our advanced proprietary encryption mechanism
- Compatible and integrated with various flight controllers, mission planning software, and payloads



Encoder / Decoder Specifications

Video Encoder / Decoder	Dual H.264 low latency, HD & SD Video Formats up to 1080p; SD Card recording
Dual Encoder / Decoder	HD & SD Channels

Radio & Modem Specifications

Range	Up to 5km / 3.1 miles (LOS, uninterrupted conditions) For extended range, other solutions available
Throughput	Configurable from 1.6-6 Mbps; For extended throughput, other solutions avail.
Network Topologies	Point-to-Point and unlimited viewers/receivers Multiple Synchronized Point-to-Point Links
Modes of Operation	Broadcast, Unicast Unlimited number of viewers/receivers
Sensitivity	Max -101dBm
Diversity Support	MIMO 2x2 , Tx & Rx Diversity
Transmission Technology	OFDM, TDD
Encryption	128 AES – Standard Package 256 AES and other options also available for purchase (custom export control may apply)
Frequencies	2.4 GHz (ISM) & 5.8 GHz (ISM) Other frequencies available upon request

Temperature

Environmental Temperature	-20 – 45° C (-4 – 113° F)
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Dimensions

(H x W x D) mm	(H x W x D) inch
31 x 54 x 74	1.2 x 2.1 x 2.9

Weight

Grams	Ounces
131	4.62

Power

DC Voltage	7.4 – 24 V DC
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Interfaces

Video	Micro HDMI (input/output) Analog (input/output)
Control & Telemetry	Serial RS232
Ethernet	Full Ethernet Protocol 802.3 (TCP/IP, UDP, and others)
Antenna	MMCX (x2)

Configuration & Management

Unit Monitoring	Web-Based Application
Program Interface	API

Product versions available to accommodate FCC, CE & TELEC standards.