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DragonFly V Datasheet

DragonFly V Miniature HEVC HDR COFDM Transmitter

OEM PoV Cameras

Surveillance

ENG/Events/Live Sports

5G Variant Available

DragonFly V is a revolutionary miniature HEVC wireless video transmitter, meticulously crafted to seamlessly capture real-time, high-quality video from Point of View Cameras, UAV, Body Worn, concealments and static sports cameras. DragonFly V was designed with a minimized form factor and weight, combined with a low power consumption to reduce heat, and maximize battery-based operation time. The brand-new encoder pushes this solution to new levels – it accepts video formats up to 1080P-50/60 HDR, making it suitable for seamless inclusion into the majority of live broadcast workflows.

DragonFly V transmitter is equipped with a choice of HD/SDI or HDMI inputs, giving the user wide flexibility with their miniature camera choices. DragonFly V achieves a maximum COFDM output power of 50mW, all contained within a package weighing less than 55 grams. This configuration ensures a reliable high-definition HDR video transmission in the smallest package available today, rendering it suitable for the most demanding bespoke portable applications.

Configuration of DragonFly V is facilitated through its built-in Wi-Fi Web server, providing a user-friendly interface for customization. Furthermore, it features a licensable 450MHz camera control receiver that aligns seamlessly with Vislink's FocalPoint Camera control system, enhancing its adaptability and compatibility with the Vislink broadcast portfolio.



Key features

- LMS-T / ISDB-T**/ DVB-T2**
 - 50mW Output Power
 - Licensed and ISM frequencies
 - Low power consumption
 - Very Low latency
 - Max 1080P HD HEVC HDR encoding
 - Lightweight: <55 grams
 - HDMI or SDI camera inputs (Variant contingent)
 - 450MHz Camera control (Licensable)
 - Wi-Fi Control, Status, and Configuration
 - RS232 Remote Control
 - MiPi Interface available allowing OEM integration (on request)
- ** Future release

Typical applications

- Sports and Entertainment
- Electronic News Gathering (ENG)
- Surveillance
- Aerial – Drones for events, sports, and cinematography
- UAV/Drones
- Public Sector
- OEM POV Cameras – Ref Cam, Jockey Cam, Bodyworn, NHL, MLB, football, and entertainment events



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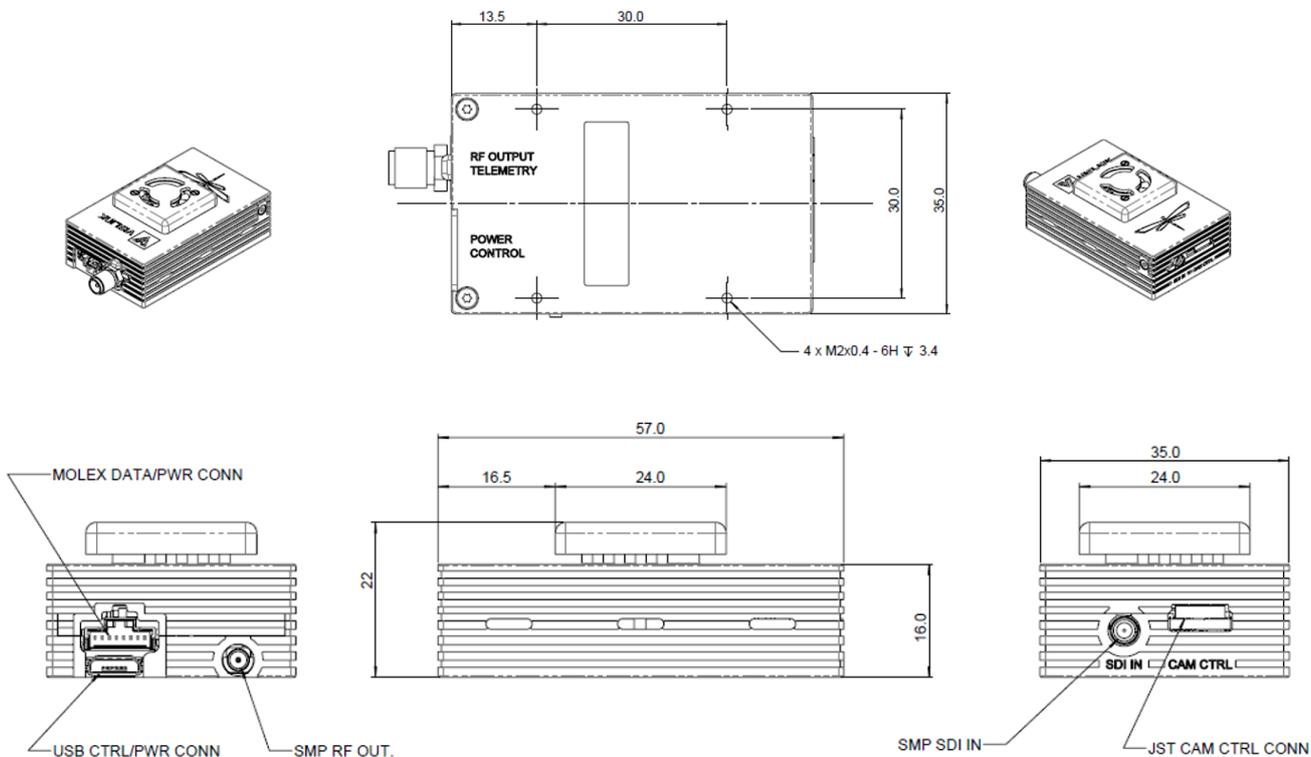
Technical Specifications

	DragonFly V
Bands and RF Performance	2.0-2.5GHz 50mW
Frequency Stability	± 10 ppm
Modulation Modes	
Modulation Formats	COFDM LMS-T*, ISDBT*, DVB-T2**
Carriers	2K
Constellation	QPSK, 16QAM
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/32, 1/16, 1/8, 1/4
Bandwidth	6, 7, & 8 MHz
MPEG Encoder Video	
Video Coding	HEVC HDR 4:2:2 10 Bit MPEG-4 Part 10/H.264
Video Input	HD 3G SDI (AX Model) HDMI (SXModel)
Video Formats	1080p 50/60, 720p 50/59.94 1080i 50/ 59.94 (TBC)
Audio	
Audio Input	Embedded, SDI/HDMI
Audio Coding	MPEG 1 (Layer II)
Audio Sample Rate	48 KHz
External Microphone	TBC

*Licensable
**Future Release

Technical Specifications (continued)

	DragonFly V
Control Wired	RS232 with Command Protocol
Wireless	Wi-Fi 2.4 GHz ISM Band Android/iOS Web
Camera Control (Licensable)	FocalPoint compatible - Sony, Grass Valley, Panasonic, Hitachi *More on Request
Power Consumption	Low Power Consumption
Power Requirements	Input range: 6-16 VDC Power consumption: Version dependent
Environmental Temperature Range	Full specification: -10° to +50° C (14° to 122° F) Ambient Storage: -40° to +80° C (104° to 176° F) Humidity: 0 to 95% non-condensing
Physical Characteristics Size	2.25" x 1.38" x .63" 57 x 35 x 16 mm
Weight	<55 grams



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