

RAPTOR

Talon TXR

Miniature COFDM Transmitter with Integrated Data Link.

The Talon TXR is a compact, professional-grade COFDM video transmitter built for FPV drones, gimbals, and body-worn cameras where size and weight are critical. Delivering low latency 1080p60 wireless video with H.264 or HEVC encoding, it supports SDR and HDR workflows, including HLG2020. Operating in the 2.0–2.5 GHz and 5.1–6.0 GHz bands, the Talon TXR also features UHF return for camera control, embedded audio support, and flexible configuration via local UI, USB, or Bluetooth. Designed for demanding live production environments, it combines reliable wireless performance with an ultra-compact 155 g form factor.

LIVE APPLICATIONS

- Sports Coverage
- Event Coverage
- Body worn applications
- Drone applications
- Gimbal applications

KEY FEATURES

- Compact design (90 x 65 x 19 mm) for body-worn and drone-mounted use
- 50mW COFDM output for reliable, low-power transmission
- Resolutions up to 1080p60, with HDR capability
- Low latency
- Integrated camera control via UHF return path
- Flexible audio options: line-in, mic level, and SDI-embedded
- Local User Interface

CONNECTORS

RF Output	SMA Female 50Ω
Data TXR	SMA Female 50Ω
Video/SDI Input	mini-BNC Female 75Ω
Remote Control	USB C
Software Update	USB C
Camera Control	Hirose
Power	2-pin Lemo USB-C Battery NP-F750 Type

RF

Frequency	2.0-2.5GHz or 5.1-6.0GHz
Power	50mW (17dBM)
Modulation	8/7/6MHz DVBT Bitrate 18Mb/s max

VIDEO

Input	HD-SDI (1.5 and 3G)
Encoding	HEVC/ H.264
HDR	Mode HLG2020 8bit
Resolutions	1080p30 / 50 / 60 / 59.94
Latency Standard	Standard: < 250mS Low: < 120mS

AUDIO

Input	SDI Embedded
Compression Type	MPEG Layer 1

CONTROL

Local	Knob Panel LCD
Bluetooth/USB-C	Webpage

CAMERA CONTROL DATA

Interface	RS485 (Half-Duplex)

DIMENSIONS

Size (H x W x D)	3.55 x 2.56 x .75 inches 90 x 65 x 19 mm
Weight	5.5 ounces 155 grams

POWER

USB-C	5V
Power In	5.2 - 19VDC
Battery	7.4VDC Sony NP-F750
Consumption	<5W at 1080p60

RETURN CHANNEL

Frequency	450 – 480MHz 902 – 928MHz
Protocol	Raptor TTX

ENVIRONMENT

Temperature Range	-10 to +50° Celsius 14 to 122° Fahrenheit
IP Rating	IP55

PRODUCT CODES

RPT-Talon-200250	Miniature HEVC HD TX 50mW 2000-2500MHz
RPT-Talon-510600	Miniature HEVC HD TX 50mW 5100-6000MHz
RPT-CC-LIC	Camera Control License
RPT-DTX-450480	Raptor Data Transmitter 450-480MHz
RPT-DTX-902928	Raptor Data Transmitter 902-928MHz

ACCESSORIES

Raptor Talon TXR Connector View