HELIOS
10FTX

UHD **HEVC** **HDR** **10 BIT**

DO NOT COVER

HELIOS

Engineered for the film industry

The Rogue Waves Helios 10FTX

Exceptional picture quality using HEVC encoding, reliable COFDM RF, slimline design and low latency, the Helios 10FTX is the ultimate wireless video transmitter for the film industry.

The FTX is equipped with unique features designed for the film industry, for instance, it will automatically detect when the camera is recording and will run in silent mode using the SDI record flag to stop the fan*, it comes with a SDI loop through and it is the only COFDM RF long range system in the world able to pass all auxiliary metadata through.

The FTX's RF performance and picture quality in a compact unit weighing only 300g makes it perfect for drone, lightweight gimbals or other discrete applications.

Video Key Points

- 10 bit 4:2:2 video
- HEVC and H.264 encoding
- Accepts all HD SDI formats
- Auxiliary Metadata passthrough
- SDI Loop through
- Low latency
- Silent operation when in camera is in Record mode (SDI Rec Flag)
- Rugged design and build quality
- HDR metadata Support

RF Key Points

- COFDM Ultra long range RF
- DVB-T
- Licensable frequency options
- Doesn't use standard Wifi Channels
- Transmit to unlimited simultaneous receivers

The Helios range

The Helios range from Rogue Waves is designed from years of wireless systems experience in broadcast and film industries.

We have specifically constructed each component to be practical for the unpredictability of a film and TV set, while keeping it rugged and lightweight at the same time.

Using up to 10bit 4:2:2 sampling bonded with low latency HEVC encoding, allows for an exceptional video signal to be carried through the air, even when transmitting HDR or Camera native log images (S-Log, C-Log, 3G10, etc.)

Helios is a 4K UHD capable system, with a 12G input for professional film and broadcast cameras.

HELIOS
10FTX

Overview

Ultra Long Range COFDM

Keep away from Wifi frequencies

Low Delay

Unlimited simultanious receivers

Dimensions

d: 27mm

h: 113mm

w: 88mm

UHD · HEVC · HDR · 10 BIT

Specifications

Video	
Input	HD-SDI – 1.5G/ 3G/ 6G /12G*
Output	Uncompressed SDI Loop through
Video Encoding	HEVC – H.265 / H.264
Video Sampling	YCbCr – 4:2:2/4:2:0, 8/10-bit
Video Formats	720p: 50 / 59.94 / 60
	1080i: 50 / 59.94 / 60
	1080p: 23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60
	2160p*: 23.98/24/25/29.97/30/50/ 59.94/60
HDR Support	Rec. ITU-R BT.2100-2 (PQ and HLG) and Rec. ITU-R BT.2020 Metadata
Ancillary Data	Timecode, Record Flag and ANC Camera Metadata
Auxiliary Data	RS232 1.2k to 115.2k baud
Audio	
Audio Encoding	MPEG-1 Layer 2/ Linear PCM/ AAC-LC
Streaming	
Video/Audio Encoding	Same as above
Streaming Output	Ethernet 1000/Base-T/100bT
Protocols	Unicast / Multicast, UDP / RTP / SRT
Bitrate	25Mb/s maximum
Control	
Local	Menu screen and Joystick
Remote	IP web GUI RJ45 1000/Base-T/100bT
Connectors	
RF out	SMA female
Video In	BNC
Video Loop Out	BNC
Analogue audio in	Lemo 0B 5 pin Female
Power	Lemo 0B 4 pin Female
Ethernet	Hirose 6 pin Female
Data	Hirose 6 pin Male
Dimensions	
Size (WxDxH)	113 x 88 x 27 mm
Weight	300g
Mounting	V mount wedge plate, 3/8th screw
Power	
DC In	9 – 36V Reverse polarity protection
Connector	0B 4 Pin Lemo
Power consumption	14W typical
Environment	
Temperature Range	-10 to +50 ºC
* Ultra only	