



HELIOS
10FTX

HEVC

HDR

10
BIT



Engineered for the film industry

The Rogue Waves Helios 10FTX

Exceptional picture quality using H.265 HEVC encoding, reliable COFDM RF, slimline design and ultra low latency, the Helios 10FTX is the ultimate wireless video transmitter for the film industry.

Video Key Points

- 10 bit 4:2:2 video
- High Dynamic Range (HDR) Compatible
- HEVC H.265 encoding
- Accepts all HD SDI formats
- Metadata passthrough
- SDI Loop through
- Ultra Low latency
- Silent operation when in Record (SDI Rec Flag)
- Rugged design and build quality
- Enhanced colour depth
- Crystal clear clarity

RF Key Points

- COFDM Ultra long range RF
- DVB-T
- Licenced frequencies
- Does not take up valuable wifi channels on set
- Transmit to unlimited simultaneous receivers

The Helios range

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

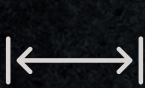
Using 10bit 422 sampling and bonded with low latency HEVC encoding allows for an exceptional video signal to be carried through the air with no visual loss, even when transmitting HDR or Camera native log images (S-Log, C-Log, 3G10, etc.)

A license upgrade allows the Helios* to transform into a 4K UHD system, using a 12G input from professional film and broadcast cameras.

*specific products only



Overview



Ultra Long Range COFDM



Keep away from Wifi frequencies



Ultra Low Delay



Unlimited simultaneous receivers

Dimensions



Contact us

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* Subject to change

Specifications

RF	
Frequency Band Options	1.98 – 2.7GHz, 5.5–6GHz, 7–7.5GHz
O/P Power	100mW
DVB-T Bandwidth	8MHz, 7MHz and 6MHz modes
DVB-T Guard	1/32, 1/16, 1/8, 1/4
DVB-T FEC	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T Modulation	QPSK, 16QAM, 64QAM
DVB-T Bit-rates	3.6Mbps to 40Mbps
DVB-T2	Future upgrade
Video	
Input	HD-SDI
Output	Loop through SDI feed
Video Coding	H.265
Encoding Format	H.265 4:2:2/4:2:0, 8/10-bit
	720p / 50 / 59.94 / 60
	1080i / 50 / 59.94 / 60
	1080p / 23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60
Latency	>sub 35ms
HDR/WGC	Rec. ITU-R BT.2100-2 (PQ and HLG) and Rec. ITU-R BT.2020
Auxiliary Data	Timecode and Aux data extraction
Audio	
Format	Embedded, 1 pair analogue +48v Phantom
Encoder	MPEG-1 Layer 2, Linear PCM, AAC-LC
Quantity	2 pairs
Control	
Local	Menu screen and Joystick
Remote	IP web browser Control
Ethernet	RJ45 1000/Base-T/100bT
Data	
Data	1.2k to 115.2k baud, 8-bit
Connectors	
RF out	SMA female
Video In	BNC
Video IN / OUT (Loop)	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 °C