Mobile Viewpoint WMT Family of TerraLink Encoders

For Mobile and Remote Production for Live Streaming

Overview:

- Outside Broadcast & Remote Production
- Portable 19' rack mount encoders
- Multicamera support
- TerraLink Mini – small stand alone encoder
- Internal Modem Option
- 5G/4G/3G/WiFi/LAN/Satellite
- 4K /1080i/p/720p/ NTSC/ PAL
- Additional Remote Production Features
- RCP, IFB & Tally support
- 2WAYLink – encode and decode full HD-SDI video return
- Store & Forward
- Video Return (HDMI) and IFB Support

The WMT TerraLink encoder family is Mobile Viewpoint's portable servers that are typically used for professional outside broadcast and other point-to-point live streaming needs.

With the exception of the TerraLink Mini (-M), they are 19' rack mountable and can be used in SNG trucks, outside broadcast vans or studio-to-studio to send live video streams reliably, in high quality and with low latency.

Features

- Standard - 1, 2 or 4 livestreams input options (3G and 12G SDI)
- 1x 4K stream support
- Bonded options with multiple cellular SIM support from different providers
- Bonded 5G/4G/3G/WiFi/LAN/Satelite
- REMI options for remote production support
- H.265 and H.264
- Adaptive encoding
- Separate ethernet connectivity simultaneously while video live streaming
- Supports IFB/ audio comms
- Outputs for video return/teleprompter
- 1U Server- standard encoder
- 2U rack model available – for additional REMI features and PerSonus enhanced IFB
- REMI Option including RCP and Tally Control
- IFB Support (with enhanced PreSonus IFB Intercom option)
- Point-to-point connection
- **Receiving end (decoder) has choice of SDI and/or IP outputs**
- LinkMatrix – encoders and decoders fully managed by free remote feature-rich management portal

In use by many global broadcasters and TV production companies, the WMT encoders can support single and multi-camera productions with a range of features including internal bonded 5G/4G modems, H265 encoding, 4K, video return, intercom as well as support for remote production (REMI) with features such as RCP camera control, Tally lights, internet connectivity/hotspot and full PreSonus integration for enhanced IFB control.

All WMT encoders can be controlled and managed remotely using Linkmatrix, a free hosted service from Mobile Viewpoint.

There are three types of TerraLink Encoders:

**TerraLink Mini
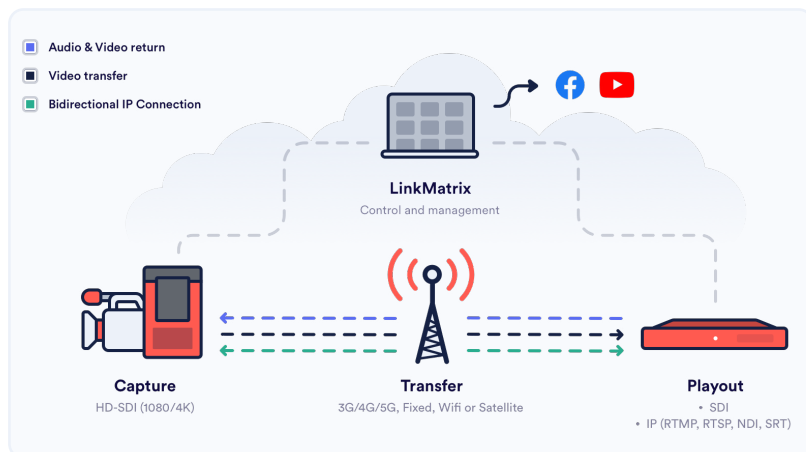Standalone Encoder**
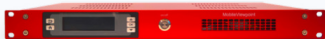
**1U x 19" Standard
TerraLink Encoder**

**2U x 19" Enhanced
TerraLink Encoder
(with REMI Options)**

Features (continued)

- Internal Storage
- Encryption & Decryption
- Cloud Workflows supported
- Bronze, Silver and Gold Support Available
- 1 year warranty

WMT Products - Positioning

The TerraLink-Mini (-M) is an entry level light-weight H.265 encoder system that supports one input with option for 2 internal SIM cards.

For the standard TerraLink 19"encoder, Mobile Viewpoint provides the 1U server with from 1 to 4x HD-SDI inputs, but also each model can have a REMI version that is updated to 2U to include RCP, Tally control and PreSonus for enhanced IFB audio return.

There is also the option for the TerraLinks to be configured with internal modems, have outputs for return video and support for 4K.

There is also the option for multichannel TerraLinks to have 2Waylink. This is a feature that allows the unit to act as both an encoder and decoder allowing return streams in full HD vii HD-SDI from other encoders.

Optional

- Extra internal modems
- Outputs for return video
- 4K support
- 2WayLink for multichannel devices

LinkMatrix

LinkMatrix is Mobile Viewpoint's cloud based management control center for controlling all of the encoders in the field, for selecting and managing decoding destinations, as well as host of other configuration and diagnostic information.

LinkMatrix is free but it has a subscription based option for cloud decoding that can be used to set up social media channels or a CDN for instant live streaming. This removes the need for a decoder at the receiver end.

As a hosted service operated under a standard browser with the right security credentials, it allows a remote user to manage all the WMT devices under their control without the talent in the field needing any technical knowledge. Linkmatrix has many features for remote control, going live, social media publishing and remotediagnostics including network management of SIM cards. It also includes other editing and production tools including Clipper for clipping live streams to create media files for instant publishing on social media for example.

Decoding options

Our encoders provide a point-to-point connection and do not rely on a third party cloud platform for debonding.

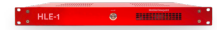A number of decoding options are available at the receiving end.

A cloud decoding option is also available allowing IP live feed streams to CDN's, social media and other IP platforms.


WMT TerraLink Models Available:

Model	Standard Encoder (19" rackmount 1U)	Remi option (19" rackmount 2U)	Internal modem (M) option
TerraLink Mini	1x HD-SDI input (stand alone not 19" rack)	n/a	Modems: 2
TerraLink-2K1C	1x HD/SD-SDI input	n/a	Modems: 8
TerraLink-2K1C-2WAYLINK	1x HD/SD-SDI input 1x HD/SD-SDI output	n/a	Modems: 8
TerraLink-4K1C	1x 4K (HD & SD) input	n/a	Modems: 8
TerraLink-2K2C	2x HD/SD-SDI inputs	n/a	Modems: 8
TerraLink-2K2C-2WAYLINK	2x HD/SD-SDI inputs 2xHD/SD-SDI outputs	**+ REMI option:** RCP & Tally & PreSonus	Modems: 8
TerraLink-2K4C	4x HD/SD-SDI inputs	**+ REMI option:** RCP & Tally & PreSonus	Modems: 8
TerraLink-4K4C	4x HD/SD-SDI inputs **or** 1x 4K 12G inputs	**+ REMI option:** RCP & Tally & Presonus	Modems: 8
HLE Encoder	1x SDI or IP Input (HLS1.1 HTTP Encoder)	n/a	n/a

MOBILE VIEWPOINT

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Technical specifications:

	TerraLink Mini (Portable)	TerraLink 19" rack (1U and 2U)	HLE Encoder (1U)
Encoder			
H264 and H265	H264 and H265	H264 and H265	H.264 High Profile 4.1
Maximum Bandwidth	12Mb/sec	16Mb/sec (per channel)	8Mb/sec
Store & Forward	n/a	✓	n/a
Total number of internal modems	Mini (0), Mini-M (2) 5G (on request)/4G/3G	8 (M model only) 5G (on request)/4G/3G	n/a
Total no of SDI connections	1	(1C) - 1, (2C) – 2, (4C) – 4 2WAYLINK option: (1c) - 2 or (2C) - 4	1
Total no of HDMI connections	n/a (only on request)	1 (for video return)	n/a
Total no of IP connections	1	2 (1 + 1 MANAGEMENT PORT)	1
2WAY LINK	n/a	Option Return Outputs (full HD) via HD-SDI	n/a
Network Connectivity			
No. of Sim Cards (3G/4G)	Mini (0 modems), Mini-M (2 internal modems)	8	n/a
Wifi	✓	✓	
Ethernet ports (internet)	1	1	
Satellite support	BGAN (extra s/w license)	BGAN (extra s/w license)	
Camera Inputs			
Multicamera support	1x 3G-SDI	Y (with 2C and 4C model)	n/a
SDI inputs	1x 3G-SDI	Up to 4* 3G-SDI (and 1* 12G option on 4K models)	
HDMI inputs	n/a (only on request)	n/a	
Ethernet inputs	Y (simultaneously send IP stream)	Y (simultaneously send IP stream)	

Technical specifications:
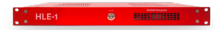
	TerraLink Mini (Portable)	TerraLink 19" rack (1U and 2U)	HLE Encoder (1U)
Video Support			
4K UHD	n/a	4K1C & 4K4C models	
HD and SD video format	Full D1, 720p50, 720p59.94, 720p60, 1080i/p 25/30/50/60	Full D1, 720p50, 720p59.94, 720p60, 1080i/p 25/30/50/60	1080i/50, 720p/60, 540p
NTSC/PAL	✓	✓	✓
Sync on multichannel encoders	n/a	✓	n/a
Other Outputs			
USB Options	External modems to be provided by Mobile Viewpoint	External modems to be provided by Mobile Viewpoint	
HDMI output (for video return)	n/a	✓	n/a
RCP	n/a	REMI option	
Tally	n/a	REMI option	
Store & Forward			
Local Storage	On request (64Gb)	128Gb (on request more Gb available)	
Rec & Live Stream simultaneously	n/a	✓	
File trickle Upload via USB	n/a	✓	
Audio			
No of channels audio channels	2 by default (4 or 8 by s/w license)	2 by default (4 or 8 by s/w license)	
Audio Format (embedded)	Embedded audio (12 - 128Kbit per channel)	Embedded audio (12 - 128Kbit per channel)	
IFB Audio	n/a	1 Mic	
IFB PreSonus (full intercom)	n/a	REMI Option 4 channel balanced audio in/out as part of REMI option	
Intercom	n/a	1 Mic	

Technical specifications:

	TerraLink Mini (Portable)	TerraLink 19" rack (1U and 2U)	HLE Encoder (1U)
Power			
Power requirements	12V	100 - 240V	100 - 240V
Consumption	25wh	90W	
Internal battery	On request	n/a	n/a
Vlock plate	Via separate plate	n/a	n/a
Anton Bauer plate	On request via separate plate	n/a	n/a
Main power supply	12V DC	C13	C13
Dual power supply	n/a	On request	On request
Internet Hotspot			
Wifi		✓	n/a
Ethernet	n/a	✓	
Delay / latency	0,8 - 60 seconds	0,8 - 60 seconds	
Encryption	128 AES	128 AES	
Hardware Properties			
Screen for admin/playback	✗	✓	✗
Size	Mini: 11.5cm x 6cm x 11cm (w* d* h), Mini-M: 11.5cm x 7.3cm x 11cm (w* d* h)	19" wide (482.6 mm), 1U is (1.75" or 44.45 mm). REMI- 2U	19" wide (482.6 mm), 1U is (1.75" or 44.45 mm)
Weight	1.5kg	6 - 8kg	5kg
Ruggedized Casing	✓	✓	✓
Operational Temperature	-5C to +40C	-5C to +40C	-5C to +40C
Decoders supported	ALL	ALL (REMI decoders required to support REMI Encoders)	
Hosted Management			
Linkmatrix Compatible	✓	✓	✓
Social Media for cloud decoding	✓	✓	
Accessories			
Dome Antennas Supported	✓	✓	n/a