ENCODERS

TerraLink Standalone and Rackmount Encoders for OB and Remote Production

Solution Overview

- Designed for outside broadcast and remote roduction
- Available in compact standalone and portable 19' rack mount versions
- Multicamera support
- 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 and forward
- Video return (HDMI) and IFB support

A trusted choice among global broadcasters and TV production companies, Vislink's WMT TerraLink encoder family offers portable server solutions tailored for professional outside broadcasting and high-quality point-to-point live streaming applications.

The encoders include the TerraLink Mini compact standalone model as well as 19' rack mountable versions designed for use in SNG trucks, outside broadcast vans or studio-to-studio to send live video streams reliably, in high quality and with low latency.

The WMT TerraLink encoders support single and multi-camera productions with a range of features including internal bonded 5G/4G modems, H265 encoding, 4K, video return and intercom. They also support 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 TerraLink encoders can be controlled and managed remotely using LinkMatrix, a free hosted service available from Vislink.

Typical Applications

Newsgathering

Live Events

Sporting Events

Remote Production

Key Features

Standard 1/2/4 livestream output options (SDI)

Standard 1/2/4 livestream input options (3G and 12G SDI)

1× 4K stream support

Bonded options with multiple cellular SIM support from different providers

Bonded 5G/4G/3G/WiFi/LAN/Satellite

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 PreSonus 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

Internal torage

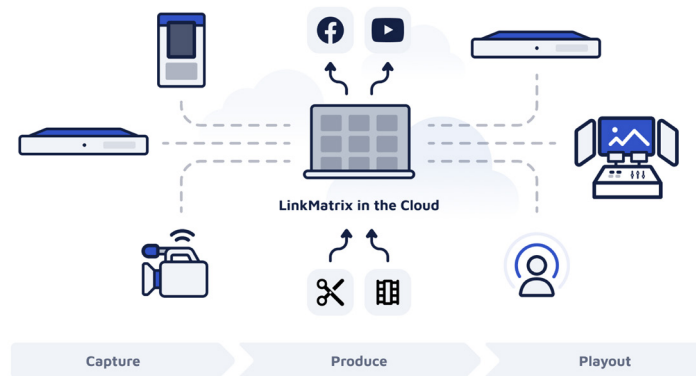Encryption and decryption

Cloud workflows supported

Bronze, Silver and Gold Support available

1 year warranty

TerraLink Encoders Datasheet

Vislink Broadscast Workflow

LinkMatrix in the Cloud

| Capture | Produce | Playout |

WMT TerraLink Encoder Family

TerraLink Mini
Standalone Encoder

1U x 19″ Standard
TerraLink Encoder

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

The TerraLink Mini is an entry-level lightweight H.265 encoder system that supports one input with the option for two internal SIM cards.

The standard TerraLink 19″ encoder is comfigured as a 1U server with 1 to 4 HD-SDI inputs. Each model is available as a REMI version that is updated to 2U and includes RCP, Tally control and PreSonus for enhanced IFB audio return.

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

The multichannel TerraLinks can also be provided with 2WayLink. This feature allows the unit to act as both an encoder and decoder, which enables return streams in full HD via HD-SDI from other encoders.

Available Options

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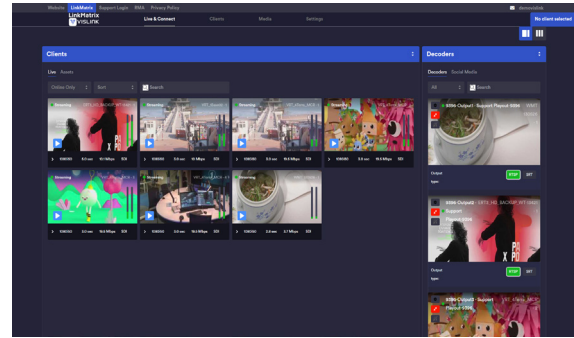
Decoding Options

Vislink 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.

TerraLink Encoders Datasheet

LinkMatrix

LinkMatrix is Vislink's cloud-based management control center, designed for comprehensive control of field encoders, management of decoding destinations, and access to a wide range of configuration and diagnostic tools.

While LinkMatrix is free to use, an optional subscription-based cloud decoding service is available. This feature allows users to set up social media channels or a CDN for instant live streaming, eliminating the need for a physical decoder at the receiving end.

Operated through a standard browser with appropriate security credentials, LinkMatrix enables remote users to manage all Vislink devices under their control, without requiring technical expertise from on-air talent. The platform offers robust capabilities, including remote control, live streaming activation, social media publishing, and network diagnostics, such as SIM card management. Additionally, it provides editing and production tools like Clipper, which allows users to clip live streams and create media files for immediate publishing to platforms such as social media.

With its extensive feature set, LinkMatrix is an essential tool for streamlining live broadcasting workflows and enhancing production efficiency.
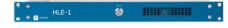
WMT TerraLink Models Available

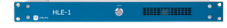| Model	Standard Encoder (19" rackmount 1U)	Remi option (19" rackmount 2U)	Internal modem (M) option
TerraLink Mini	1x HD-SDI input (standalone not 19" rack)	n/a	Modems: 2
TerraLink-2K1C	1x HD/SD-SDI input	n/a	Modems: 8
TerraLink-2K1C-2WAYLINK	1x HD/SD-SDI input 1x HD/SD-SDI output	n/a	Modems: 8
TerraLink-4K1C	1× 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 2x HD/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 1× 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

TerraLink Encoders Datasheet

Technical Specifications

Encoder	TerraLink Mini (Portable)	TerraLink 19" rack (1U and 2U)	HLE Encoder (1U)
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
Wi-Fi	✔	✔	
Ethernet ports (internet)	1	1	
Satellite support	BGAN (extra s/w license)	BGAN (extra s/w license)	
Camera Inputs			
Multicamera support	1× 3G-SDI	Y (with 2C and 4C model)	n/a
SDI inputs	1× 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)	

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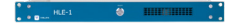

Technical Specifications

Video Support	TerraLink Mini (Portable)	TerraLink 19" rack (1U and 2U)	HLE Encoder (1U)
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 Vislink	External modems to be provided by Vislink	
HDMI output (for video return)	n/a		n/a
RCP	n/a	REMI Option	
Tally	n/a	REMI Option	
Store and 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	

TerraLink Encoders Datasheet

Technical Specifications

Power	TerraLink Mini (Portable)	TerraLink 19" rack (1U and 2U)	HLE Encoder (1U)
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			
Wi-Fi		✔	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	X	✔	X
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

E: sales@vislink.com T: +1 908 852 3700 / + 44 1442 431300   www.vislink.com