



VISLINK

At the heart of the action.

UltraLink-Air Datasheet

UltraLink-4K Family of Enterprise H264/H.265 Encoders For Mobile and Remote Production

Livestreaming

Multi Camera

5G

Store & Forward

Return Audio/Video

POWERED BY



MOBILE
viewpoint



The UltraLink-Air family of mobile encoders is MVP's flagship product. With a range of unique features and developments, the UltraLink-Air products are the most technological advanced mobile encoders available today.

In use by many global broadcasters to create high quality and low latency video feeds for outside broadcast and live remote production, the UltraLink-Air can support up to 4 cameras simultaneously and can include internal 5G modems.

The unit is capable of supporting up to 40Mb/s over bonded networks and can transmit back to a studio or to the cloud using up to and including 8 internal 3G/4G/5G modems, Wi-Fi, LAN and/or satellite and can bond all these connections to make a single high bandwidth connection. By using adaptive bitrate, the UltraLinks optimize the video feed based on the available bandwidth ensuring high quality video even in the most demanding of situations. The lightweight and modest size encoder can fit into a backpack and is battery powered. It supports many of the features expected of a mobile encoder including both H.265 and H.264 encoding, Store & Forward for internal storage, 2-way audio IFB intercom and return video.

The UltraLink-Air also boasts a range of additional features including remote RCP control, Tally Control, IP streaming at the same time as video streaming, and the system can be used as a secure Wi-Fi hot spot even while live.

Key features

- 1 channel, 2 channel, 4 channel configs
- Supports up to 40 MB/sec
- 8 internal modems (3G/4G/5G) (for best configuration contact sales)
- LAN & Wi-Fi connection (bonded with cellular)
- Satellite enablement option (CBR encoding)
- Adaptive Bitrate encoding
- Error Correction
- Store & Forward (FTP Upload)
- Multicam option with camera sync
- LinkMatrix – free remote feature-rich management secure platform
- Sub-accounts creation under the owner LinkMatrix account with limited permissions
- Capability of simple editing for the recorded media on the LinkMatrix account
- Touch Screen for local management
- Decoding Options including HD-SDI, NDI, RTMP, RTSP, MPEG-TS, SRT
- Capability of streaming via RTMP or RTSP URLs without needing a transcoder or domain server Encryption
- IFB Support
- Video return capability between encoders and decoders on external input to the decoder
- WMT De-bonder and Playout Server capability of routing each live connection to any or all SDI connections
- Capability of WMT DE-bonder and Playout Server to receive 4 live connections simultaneously from unlimited encoders via switching between them through the server ID set
- Dome Antenna Options
- Bronze, Silver and Gold Support Available
- 1 year warranty



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Additional enhanced features:

- A unique feature called 2Waylink allowing encoder-to-encoder streaming
- REMI Option including RCP and Tally Control
- IP stream that can work at same time as encoded video streaming (up to 150Mb/sec).
- Secure Wi-fi hotspot while live

LinkMatrix

LinkMatrix is MVP'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 remotediagnosics 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.

Available models

- **UltraLink-Air 1C:** 1x HD-SDI inputs, 1 HDMI plus 1 video return, total 2
- **UltraLink-Air 2C:** 2x HD-SDI, 2x HDMI-SDI inputs plus 1 video return, total 3
- **UltraLink-Air 4C:** 4x HD-SDI, zero HDMI inputs but has 1 video return, total 1
- **UltraLink-Air 4K:** 1 x UHD-SDI, zero HDMI inputs but has 1 video return, total 1

Decoding options

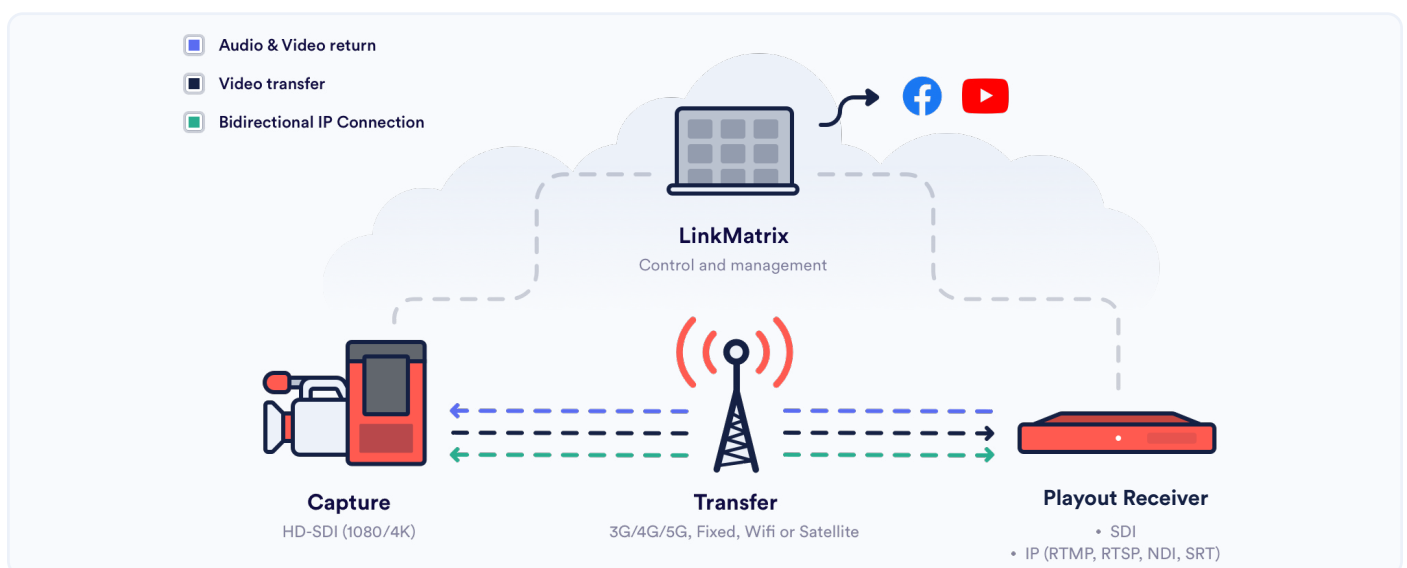
The UltraLink-Air provides a point-to-point connection and does not rely on a third party cloud platform for debonding.

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.



MVP Workflow broadcast



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	UltraLink-Air	UltraLink-4K
Encoder		
H264 and H265	H264 and H265	H264 and H265 (4c)
Maximum Bandwidth	20 Mb/s per channel	40 Mb/s
Store & Forward	✓	✓
Total number of modems	8	8
Total no of SDI connections	1C (1), 2C (2), 4C (4)	4 (+ loophthrough)
Total no of HDMI connections	1C (1), 2C (2), 4c (4) - 1 for video return	1 video return channel
Total no of IP connections	10 including Wi-fi/LAN	10 including Wi-fi/LAN
Delay / latency	0,8 - 60 seconds	0,8 - 60 seconds
Encryption	AES-256	AES-256
Error correction		
i) AARQ - Adaptive Automatic Retransmission Request	✓	✓
ii) WMT - Wireless Multiplex Technology	✓	✓
Network connectivity		
No. of Sim Cards (3G/4G)	8 modems	4 modems
5G Compatible (can be used for 3G/4G)	(4x 5G & 4x 4G) OR (2x 5G & 6x 4G) OR (7x 4G & 1x 5G) – maximum of 8 modem connections.	(4x 5G & 4x 4G) OR (2x 5G & 6x 4G) OR (7x 4G & 1x 5G) – maximum of 8 modem connections.
Wifi	✓	✓
Ethernet ports	2	2
Satellite support	BGAN/Starlink (extra s/w license)	BGAN/Starlink (extra s/w license)
Hosted Management		
Linkmatrix Compatible	✓	✓
Social Media for cloud decoding	✓	✓
Accessories		
Dome Antennas	✓	✓
Backpacks	✓	✓
Camera Mount Kits	✓	✓

	UltraLink-Air xC	UltraLink-4K
Camera inputs		
Multicamera support	✓	✓
SDI inputs	1C (1), 2C (2), 4C (4)	4 × 3G SDI / 1 × 12G SDI
HDMI inputs	1C (1), 2C (2)	n/a
Ethernet inputs	✓ (simultaneously send IP stream)	✓ (simultaneously send IP stream)
(Wifi camera support)	✓	✓
Video Support		
HD and SD video format	✓	can use single input for HD/SD
NTSC/PAL	✓ (frame rate 25/30/50/59.94/60)	✓ (frame rate 25/30/50/59.94/60)
Sync on multichannel encoders	✓	✓
Video Resolutions Supported		
	SD Format Support 525i/59.94 NTSC, 625i/50 PAL	Support for input video resolutions up to 4096x2160 pixels including SD/HD/3G/6G/12G SDI
	HD Format Support 1080i/25/30/50/60, 1080p/25/30, (1080p/50/60 available on request – please contact us)	Option for HDMI v2 input supporting 4K available on request. Please contact us
Other Outputs		
USB Options	2	2
HDMI output (for video return)	✓	✓
RCP & Tally & Intercom	Optional	Optional
Store & Forward		
Local Storage	128GB (on request more GB available)	128GB (on request more GB available)
Rec & Live Stream simultaneously	✓	✓
File trickle Upload via USB	✓	✓

	UltraLink-Air	UltraLink-4K
Audio		
No of channels	2 by default (4 or 8 by s/w license)	8
Audio Format (embedded)	Embedded audio (12 - 128Kbit per channel)	Embedded audio (12 - 128Kbit per channel)
IFB Audio	13,5 mm Jack (mini XLR on request)	13,5 mm Jack (mini XLR on request)
Intercom (multi-channel audio)	13,5 mm Jack (mini XLR on request)	13,5 mm Jack (mini XLR on request)
Power		
Power requirements	14 - 20V	14 - 20V
Internal battery	On request	On request
Vlock plate	✓	
Anton Bauer plate	On request	On request
Main power supply (included)	4-pin XLR	4-pin XLR
Internet Hotspot		
Wifi	✓	✓
Ethernet	✓	✓
Hardware		
Screen for admin/playback	✓	✓
Size	20,5 cm x 12,5 cm x 5 cm (W x B x H)	26 cm x 19 cm x 10 cm (W x B x H)
Weight	1.7 KG	1.7 KG
Ruggedized Casing	✓	✓
Operational Temperature	-5C to +45C	-5C to +45C
Decoders supported	ALL	ALL
Support		
Support - 1 year warranty	Bronze (pay-as-you-go), Silver (business hours), Gold (24/7)	Bronze (pay-as-you-go), Silver (business hours), Gold (24/7)

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