

Airlink Family of Enterprise H264/H.265 Encoders

For Mobile and Remote production

Live Streaming

Multi Camera

4K & 5G

Store & Forward

Return Audio/Video



The Airlink family of mobile encoders is Mobile Viewpoint's flagship product. With a range of unique features and developments, the Airlink 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 Airlink can support up to 4 cameras simultaneously, can transmit 4K, and can include internal 5G modems.

The unit is capable of supporting up to 40MB/sec 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 Airlinks 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 Airlinks also boast 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.

Features

- 1 channel, 2 channel, 4 channel configs
- Supports up to 4K UHD to 40MB/sec
- 8 modems – 3x 4G plus 4x 5G, or 8x 4G
- 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 synch
- Linkmatrix – free remote feature-rich management secure platform
- Touch Screen for local management
- Decoding Options including HD-SDI, NDI, RTMP, RTSP, MPEG-TS, SRT
- Encryption
- IFB Support
- Video Return
- Dome Antenna Options
- Bronze, Silver and Gold Support Available
- 1 year warranty

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 Mobile Viewpoint's cloud based management control center for controlling all of the encoders in the field, and for selecting which decoding destinations to send the live stream.

It is also be used to set up designated social media channels or CDN for instant live streaming. As a browser based system, 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 remote diagnostics if required 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

- **AirLink-1C:** 1x HD-SDI inputs, 1 HDMI plus 1 video return (total 2)
- **AirLink-2C:** 2x HD-SDI, 2x HDMI-SDI inputs plus 1 video return (total 3)
- **AirLink-4C:** 4x HD-SDI, zero HDMI inputs but has 1 video return (total 1)
- **5G Ultra Airlink:** 1x UHD-SDI, 5G, zero HDMI Inputs but has 1 video return (total 1)

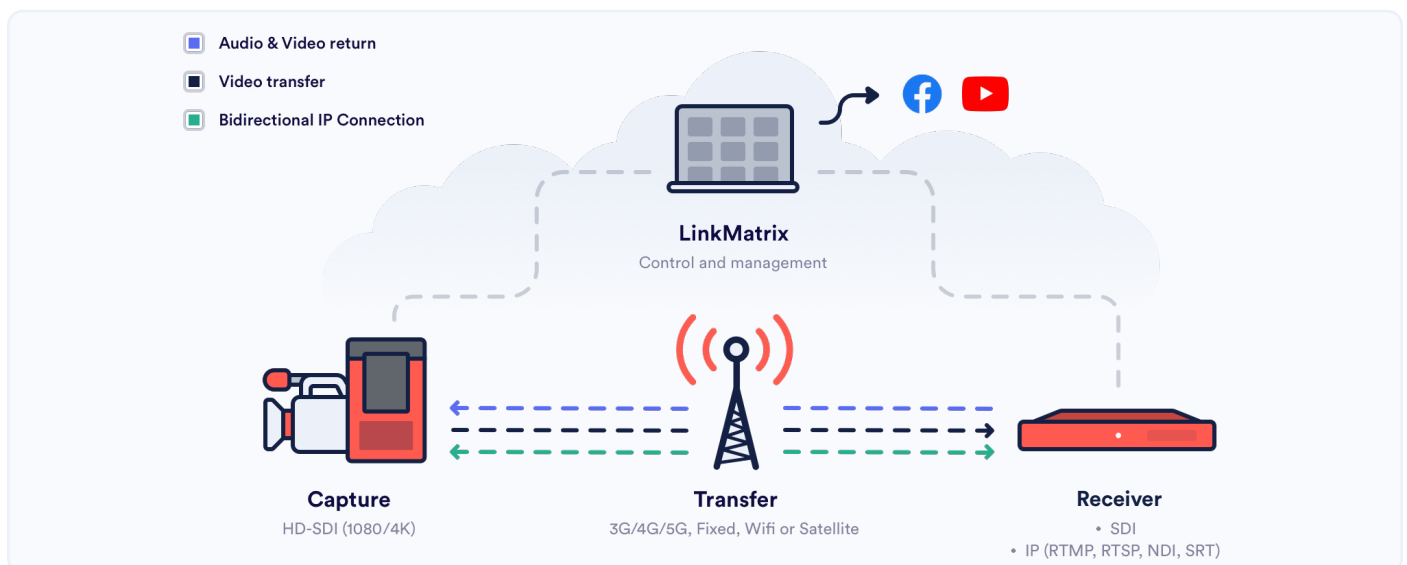
Decoding options

The Airlink 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



Technical specifications:

	Airlink xC	Airlink 4K4C	Airlink Ultra 5G
Encoder			
H264 and H265	H264 and H265	H264 and H265	H264 and H265 (4c)
Maximum Bandwidth	20 mb/sec per channel	20 mb/sec per channel	40 mb/sec
Store & Forward	✓	✓	✓
Total number of modems	8	8	8
Total no of SDI connections	1C (1), 2C (2), 4C (4)	4	1 (+ loopthrough)
Total no of HDMI connections	1C (1), 2C (2), 4c (4) - 1 for video return	n/a	1
Total no of IP connections	2	2	2
Delay / latency	0,8 - 60 seconds	0,8 - 60 seconds	0,8 - 60 seconds
Encryption	128 AES	128 AES	128 AES
Error correction			
i) AARQ - Adaptive Automatic Retransmission Request	256 AES	256 AES	256 AES
ii) WMT - Wireless Multiplex Technology	✓	✓	✓
Network connectivity			
No. of Sim Cards (3G/4G)	8 modems	8 modems	4 modems
5G Compatible (can be used for 3G/4G)			4 modems
Wifi	✓	✓	✓
Ethernet ports	1	1	1
Satellite support	BGAN (extra s/w license)	BGAN (extra s/w license)	BGAN (extra s/w license)
Hosted Management			
Linkmatrix Compatible	✓	✓	✓
Social Media for cloud decoding	✓	✓	✓
Accessories			
Dome Antennas	✓	✓	✓
Backpacks	✓	✓	✓
Camera Mount Kits	✓	✓	✓

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Camera inputs			
Multicamera support	✓	✓	✓
SDI inputs	1C (1), 2C (2), 4C (4)	Total 4 : 1x 12G-SDI or 4x 3G-SDI	1x 12G-SDI
HDMI inputs	1C (1), 2C (2)	✗	✓
Ethernet inputs	✓ (simultaneously send IP stream)	✓ (simultaneously send IP stream)	✓ (simultaneously send IP stream)
(Wifi camera support)	✓	✓	✓
Video Support			
4K UHD	✗	1 channel	1 channel
HD and SD video format	✓	4 channel (includes 4K input)	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)	✓ (frame rate 25/30/50/59.94/60)
Sync on multichannel encoders	✓	✓	n/a
Video Resolutions Supported			
	SD Format Support 525i/59.94 NTSC, 625i/50 PAL.	Support for 1 input video resolutions up to 4096x2160 pixels, or 4 channels including SD/HD/3G/6G/12G SDI	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	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)	128Gb (on request more Gb available)
Rec & Live Stream simultaneously	✓	✓	✓
File trickle Upload via USB	✓	✓	✓

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Audio			
No of channels	2 by default (4 or 8 by s/w license)	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)	Embedded audio (12 - 128Kbit per channel)
IFB Audio	1 3,5 mm Jack (mini XLR on request)	1 3,5 mm Jack (mini XLR on request)	1 3,5 mm Jack (mini XLR on request)
Intercom (multi-channel audio)	1 3,5 mm Jack (mini XLR on request)	1 3,5 mm Jack (mini XLR on request)	1 3,5 mm Jack (mini XLR on request)
Power			
Power requirements	12 - 24V	12 - 24V	12 - 24V
Internal battery	On request	On request	On request
Vlock plate	✓	✓	
Anton Bauer plate	On request	On request	On request
Main power supply (included)	4-pin XLR	4-pin XLR	4-pin XLR
Internet Hotspot			
Wifi	✓	✓	✓
Ethernet	✓	✓	✓
Hardware			
Screen for admin/playback	✓	✓	✓
No of channels	13.6 cm x 24.5 cm x 5 cm (wxhxd)	13.6 cm x 24.5 cm x 5 cm (wxhxd)	13.6 cm x 24.5 cm x 5 cm (wxhxd)
Weight	1.7 KG	1.7 KG	1.7 KG
Ruggedized Casing	✓	✓	✓
Operational Temperature	-5C to +45C	-5C to +45C	-5C to +45C
Decoders supported	ALL	ALL	ALL
Support			
Support - 1 year warranty	Bronze (pay-as-you-go)	Silver (business hours)	Gold (24/7)