MOBILE VIEWPOINT

WMT Baselink Live Stream Professional Encoder

Mid range encoder | **Low Latency Live Streaming** | **H.265** | **5G compliant**

The mid range WMT Baselink encoder from Mobile Viewpoint is in use by many global broadcasters and public agencies for their critical live streaming needs. For the broadcaster and TV production company it is a valuable addition to their outside broadcast and remote production needs such as live sports, news gatherings, festivals and religious services. The Baselink is also in use by many security, law enforcement and rescue organizations for their mobile surveillance requirements to securely live stream from a remote location over multiple "bonded" cellular networks.

By bonding together multiple cellular networks for reliability with an additional error correction layer for increased quality, the Baselink provides a highly reliable mobile ruggedized unit that can deliver seamless quality HD video streams at a modest cost, with a minimal end-to-end latency of 0.8 seconds from remote camera to playout at the receiving location.

With both the latest H.265 compression and the option of using H.264 encoding for legacy workflows, the unit is capable of supporting up to 12MB/sec over bonded networks and can transmit back to a studio or to the cloud using up to and including 4 or 6 internal 3G/4G/5G modems, Wi-Fi, LAN and/or satellite. It can bond all these connections to make a single high bandwidth connection. By using adaptive bitrate, the Baselink dynamically optimizes the video feed based on the available bandwidth ensuring high quality video delivery, even in the most demanding of situations.

The lightweight and small sized encoder can fit into a supplied backpack and can be battery powered via an installed vLock/ Anton Bauer battery plate, allowing the use of standard camera battery's for remote operation.

Features

- HD-SDI input (HDMI option)
- IP Camera Input (RTSP) via LAN/Wi-Fi
- Supports both H265 and H264 up to 12 MB/sec
- Standard 4 internal modems upgradable to 6
- LAN & Wi-Fi connection (can be bonded with cellular)
- Adaptive Bitrate encoding – optimizes quality based on bit rate
- Hotspot feature same time as video encoding
- Error Correction
- Industry standard battery plate
- LinkMatrix – free remote feature-rich management platform
- Touch Screen for local management
- Decoding Options including HD-SDI, NDI, RTMP, RTSP, MPEGTS
- Support for ONVIF compliant VMS systems such as Milestone & Genetec
- Point-to-point secure connection for added security
- 128 AES Encryption
- Cloud Workflows supported
- IFB Support
- Option for 4 audio channels
- Option for 5G modem
- Dome Antenna Options

At the receiving location, a WMT decoder can be installed allowing the creation of either an HD-SDI stream or an IP stream for a CDN, OTT platforms, social media or a Video Management System (VMS). A subscription based cloud decoding platform is also available negating the need for an on-premise decoder if not desired.

All encoders in the field can be remotely managed and controlled via LinkMatrix, a free-to-use management platform that operates from a browser on any device. This means non-technical journalists and production people in the field do not need to manage the units directly.

Linkmatrix can manage individual encoders, destinations, show proxies, implement IFB, show available networks and other configurations.

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.

- Backpack available
- Bronze, Silver and Gold Support Available
- 1 year warranty

Available models
- WMT Baselink - 4×4G
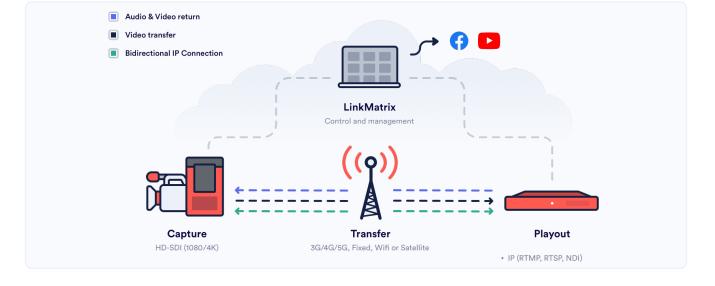- WMT Baselink - 6×4G

Decoding options

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

At the receiving end:
- **2K2** – 2 channel decoder for HD-SDI or IP streams
- **2K4** - 4 channel decoder for HD-SDI or IP streams

IP Stream can includes RTMP, RTSP, NDI and TS-MPEG.

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

MVP Workflow broadcast

- Audio & Video return
- Video transfer
- Bidirectional IP Connection

LinkMatrix
Control and management

Capture
HD-SDI (1080/4K)

Transfer
3G/4G/5G, Fixed, Wifi or Satellite

Playout
• IP (RTMP, RTSP, NDI)

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Encoder		Baselink xC
Encoding Protocol		H264 and H265
Maximum Bandwidth		12 MB/sec
Total number of internal modems		4 or 6
Wifi		✓
Ethernet ports		1
Satellite support		BGAN (extra s/w license)
Camera Inputs		
Camera Input		HD-SDI
HDMI inputs		On request
Ethernet input (RTSP)		✓
WiFi input (RTSP)		✓
Video Support		
HD and SD video format		✓ (1080/720/625/525)
NTSC/PAL		✓ (frame rate 25/30/50/59,94/60)
Video Formats		**SD Video Standards** 525i59.94 NTSC, 625i50 PAL **HD Video Standards** 720p50, 720p59.94, 720p60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30, 1080i50, 1080i59.94, 1080i60
Bit Rate		Bitrate 256 Kbps - 12 Mbps
Audio		
No of channels		optional 4 or 8
Audio Format (embedded)		Embedded audio (12 - 128Kbit per channel)
IFB Audio		1 3,5 mm Jack (mini XLR on request)
Hosted Management		
Linkmatrix Compatible		✓
Social Media for cloud decoding		✓

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Power

	Baselink xC
Power requirements	12 - 24V
Vlock plate	✓
Anton Bauer plate	On request
Main power supply	4-pin XLR
Dual power supply	n/a

Internet Hotspot

Wifi	✓
Ethernet	✓
Delay / latency	0,8 - 60 seconds
Encryption	128 AES

Hardware Properties

Screen for admin/playback	✓
Size	20.5 cm x 12.5 cm x 5 cm (WxDxH)
Weight	1.2 KG
Ruggedized Casing	✓
Operational Temperature	-5C to +45C
Decoders supported	ALL

Optional Extras (on request)

Audio Channels	4
5G Modem	1

Accessories

Dome Antennas	✓ (extra on request) (Omnidirectional Array 3 dBi)
Backpacks	✓ (included with vmount)
Camera Mount Kits	✓ (on request)