

LiveStream

Multi-Mode Video Content
Transmission Platform



LiveStream is a live content video collection platform capable of supporting multi-mode ENG and OB operations. With support for multiple transmission modes, LiveStream maximizes quality of service, enabling the delivery of highly reliable live news feeds under the most challenging circumstances.

The LiveStream Advantage

Compact:

- Space-efficient 2RU x 19" EIA all-inclusive rack mount design for OB/ENG control.

Backward Compatibility:

- Use existing ENG Nycoil Assemblies configured for Type 'N', TNC & Triax connections.

Expandable:

- Purchase a LiveStream system initially configured for single operation and then can add IP Input or AC protection, as production needs change.

Space Efficient ENG ODU:

- 2, 7 or 2/7 GHz mast-mounted single enclosure.

HD/SD Broadcast Video Quality:

- Bandwidth-efficient H.264 (AVC) encoding available in 4:2:0.

High RF Performance:

- High RF output linear broadband amplifier that minimizes out-of-band spectral interference.

Efficient Design:

- Modular design for ease of upgrades.

Key Features

User-friendly front panel control

H.264 AVC 4:2:0 HD/SD Encoding

Multiple frequency or video presets

Space-efficient two rack unit

Typical Applications

Electronic newsgathering

OB productions

Configurable Touchscreen

- Easy-to-read operator screen
- Ethernet output
- RF Channel and separate video preset
- DVB T-2 capable



LiveStream Datasheet



Technical Specifications	
Outdoor Unit (ODU)	Mast Mounted - Single enclosure
2.0-2.5 GHz	7 Watts (typ.) +/- 1dB @ QPSK, 64 QAM
6.4-7.1GHz	1 Watts (typ.) +/- 1dB @ QPSK, 64 QAM
IDU to ODU Interconnection	N Type, TNC or Triax
RF Connections	2 GHz - 2 x N Type (Omni + Parabolic - Switchable) 7GHz - 1 x N Type
Size and Weight	13.9 (W) x 25.2 (L) x 14.2(H) cm (5.5" (W) x 9.9" (L) x 5.9" (H) 5.3kg (11.7lbs.) max. @2/7GHz
Enviromental	Operating Temperature: -35°C to 50°C, (-31°F to 122°F) Humidity: 95% long term

Indoor Unit (IDU)	Rack Mounted Chassis, 2U
Operator Controls	Touch Screen Display, Physical on-off push button switch
Display	Capacative colour touch TFT 12.7cm (5.0") diagonal 800 x 400 White LED backlight
Presets	User Configurable
Rear Panel I/O	2 x Coaxial Din - ASI In / Out N Type, TNC or Triax 4 x SFP - Input/Output 2 x RJ45 IEC - 110 - 230Vac
Size and Weight	43.1 (W) x 34.2 (L) x 8.9(H) cm (17.0" (W) x 16.2" (L) x 3.5" (H) 2RU 19" EIA Standard rack mounted 5.4kg (11.9lbs.)
Operating Power	115/230VAC, 2.0A (typ.) Optional 20-75Vdc
Enviromental	Operating Temperature: -10°C to 40°C, (14°F to 104°F) Humidity: 95% long term

Modulation - DVB -T	
Modulation	QPSK, 16QAM, 64QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
Forward Error Correction	1/2, 2/3, 3/4, 5/6, 7/8
DFT	2K

Modulation - DVB -T2	
Modulation	QPSK, 16QAM, 64QAM, 256QAM
Guard Interval	1/4, 19/128, 1/8, 19/256, 1/16, 1/32, 1/128
Forward Error Correction	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
DFT	2K

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Video Encoding	
Formats	720 × 480i (NTSC) , 720 × 576i (PAL) 720p 50p, 59.94p, 60p 1080i 50,59.94, 60 1080p 24,23.98,
Chroma Sampling	4:2:0 8-Bit
Codec	H.264
Bit Rate	2-24 Mb/s
Audio Encoding	
Standard	MPEG-1 Layer2, 2-channels
Channels	2
Bit Rate	96, 112, 128, 160, 192, 224, 256, 320, 384 Kb/s
Audio Inputs	
Analogue	2 Mono Balanced
Embedded	SDI embedded audio x 1
AES3	1 Stereo balanced and isolated from ground
Optional IP Input	
Ethernet Port Via SFP	1
ASI Port Via SFP	1
ASI Packet Size	188/204

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

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