

CLIQ

COFDM Mini Camera Transmitter



For major live events, nothing engages viewers more than being brought to the heart of the action. To deliver these immersive views to TV audiences, the Vislink CLIQ mini wireless camera transmitter provides high quality images, transmission robustness and, with its small form-factor can be positioned almost anywhere or on anything.

The CLIQ has the ability to transmit a single 4K HDR video feed or two HD HDR video services. By utilizing HEVC video coding technology, broadcast organizations can deliver more high-quality images over precious RF bandwidth. Through HEVC encoding, the Vislink CLIQ enables creative freedom to deliver richer, more engaging video productions through more camera feeds.

The CLIQ has been engineered to meet the rigorous demands of Tier-1 live events. Its small size makes it a perfect pairing for a variety of camera types and is well-suited for a multitude of different applications. Whether used in companion with mirrorless cameras to isolate the subject from the background, in conjunction with high frame-rate/slo-mo replay cameras or positioned on drones, vehicles or even on people, the CLIQ can ensure reliable transmission of video feeds that engage the viewer like nothing else.

Key Features

1× 4K UHD or 2x HD video inputs

Highest quality HEVC 10-bit 4:2:2 encoding that supports HDR

Ultra-reliable COFDM transmission

Wide-ranging frequency selection

Simple Wi-Fi / Web configuration

UHF camera control and data channel

IP camera control

Typical Applications

Live event broadcast

Bodyworn or in-vehicle transmission

POV camera systems

Drone video downlinking

Technical Specifications	
RF Parameters	
Frequency Band	Wideband 1.35-7.8GHz in licensable bands (as listed in Optional Licenses)
Transmit Power	Selectable from 50mW (low power) or 100mW (high power)
Frequency Selection	Manual selection & user defined Channel Plan
Modulation	• LMS-T • DVB-T • ISDB-T • DVB-T2** <i>*Licensed option</i>
Modulation Modes	• LMS-T: - Modulation: QPSK, 16QAM - FEC: 2/3 - Guard interval: 1/8, 1/16 • DVB-T: - Modulation: QPSK, 16QAM, 64QAM - FEC: 1/2, 2/3, 3/4, 5/6, 7/8 - Guard interval: 1/4, 1/8, 1/16, 1/32 • ISDB-T: - Modulation: QPSK, 16QAM, 64QAM - FEC: 1/2, 2/3, 3/4, 5/6, 7/8 - Guard interval: 1/4, 1/8, 1/16, 1/32 • DVB-T2: - Modulation: QPSK, 16QAM, 64QAM, 256QAM - FEC: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6 - Guard interval: 1/4, 1/8, 1/16, 1/32
Data Rate	• LMS-T: 2.90 to 46.8 Mbit/s (bandwidth & modulation dependent) • DVB-T: 4.98 to 31.7 Mbit/s (bandwidth & modulation dependent) • ISDB-T: 4.89 to 30.9 Mbit/s (bandwidth & modulation dependent)
Bandwidth	• LMS-T: 3 / 4 / 5 / 6 / 7 / 8 / 10 or 12 / 14 / 16 / 20 MHz with two carrier density • DVB-T: 6 / 7 / 8 or 12 / 14 / 16 MHz with two carrier density • ISDB-T: 6 / 7 / 8 MHz • DVB-T2: 1.7 / 5 / 6 / 7 / 8 MHz
FFT Size	• LMS-T 512 • DVB-T 2K • ISDB-T 2K • DVB-T2 1K / 2K

Video and Audio Parameters	
Video Encoder Profiles	• HEVC (H.265) UHD, HD & SD - Main, Main 10, Main 4:2:2 10 Bit • MPEG-4 AVC (H.264) HD* - 4:2:2 / 4:2:0 8-Bit <i>* interlaced formats not supported</i>
Video Inputs	• 2× 3G SDI video inputs: - 2× 3G SDI up to 1080p 50/60, supporting: - 2x SDI SMPTE-259M - 2x HD-SDI SMPTE-292M - 2× 3G-SDI SMPTE-424M • 1× 4K UHD 12G SDI video input: - 12G SDI up to 4K UHD p50/60, supporting: - 1× 12G-SDI SMPTE-2082
Video Formats	• 480i @ 50* • 576i @ 50* • 720p @ 50, 59.94, 60 • 1080i @ 50, 59.94, 60* • 1080psF @ 23.98, 24, 25, 29.97, 30* • 1080p @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 • 2160p (UHD) @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 <i>* formats supported in HEVC only</i>
HDR	• HLG • S-Log
Encode Inputs	• Single encode up to 4K UHD • Dual encode up to 3G
Audio Inputs	• 4x embedded audio over SDI / HD SDI / 3G SDI / 12G SDI • 1x analogue audio stereo pair, or 2x mono analogue inputs
Audio Encoding	• AAC (AAC-LC & HE-AAC) • MPEG-1 (Layer 1 & Layer 2)
Scrambling	
Encryption	• BISS-1 • BISS-E Injected • AES 128 & 256 Bit • AES BCrypt 128 & 256 Bit
Transport Stream Processing	
PIDS	PIDs user configurable
User Interface	
User Interface	• Ethernet control via internal webserver • WiFi connectivity & control via internal webserver
Telemetry	
UHF Input	410 to 490 MHz frequency range; FocalPoint camera control compatibility
Control	• 2x RS232 / 485 serial • 1x GbE Ethernet • 1x CANBUS

Physical Connectors	
Connectors	• Video Connector: - 2x Micro BNC (F) supporting: - 2x 3G SDI - 1x 12G SDI • Power Connector: - 2-pin Lemo socket • Audio Connector: - 6-pin Hirose (M) • Camera Control & Data Connector: - Serial: 6-pin Hirose (F) - IP via Ethernet Control Connector • Ethernet Control Connector: - RJ45 10/100 • RF Output Connector: - 50 Ω SMA (M) • UHF Input Connector: - 50 Ω SMA (F)
Flexibility and Power Supply	
Voltage	11-28V DC
Power Consumption	24W
Licenses	
Optional Licenses	• CLIQ-LICE-0001 - Cliq License Dual HD & 4K Encode • CLIQ-LICE-0009 - Cliq License RF 1.35-1.95GHz Output • CLIQ-LICE-0008 - Cliq License RF 1.95-3.0GHz Output • CLIQ-LICE-0002 - Cliq License RF 3.0-4.0GHz Output • CLIQ-LICE-0003 - Cliq License RF 4.0-5.0GHz Output • CLIQ-LICE-0004 - Cliq License RF 5.0-6.0GHz Output • CLIQ-LICE-0005 - Cliq License RF 6.0-7.8GHz Output • CLIQ-LICE-0011 - Cliq Licence DVB-T2 Modulation • CLIQ-LICE-0007 - Cliq Licence UHF Rx Camera Control • CLIQ-LICE-0010 - Cliq License CyanView Camera Control
Physical & Environmental	
Size and Weight	Overall: 102mm x 74mm x 40.2mm Excluding connectors: 86.8mm x 74mm x 40.2mm

Notes:

- Some features specified are available via optional licenses.
- Not all encoder interface options are concurrently available.
- We reserve the right to change specifications at any time without prior notice.

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