LU210 | LU220

LIVEU'S VERSATILE HYBRID VIDEO UPLINK SOLUTIONS FOR VEHICLES AND FIXED LOCATIONS

The LU210 and LU220 transform LiveU's powerful and affordable LU200e uplink unit into an industry-standard 1U rack-mount configuration for use in both truck and fixed broadcast applications.

The LU210 and LU220 are ideal as dedicated encoders for contributing content to LiveU's MultiPoint internal and cross-organizational video distribution platform, and from remote locations such as sports stadiums or satellite studios. They can also be used in SNG trucks, connected to the LiveU Xtender active antenna and KA-SAT equipment for the ultimate hybrid solution, providing guaranteed bandwidth in remote areas. Both solutions are environmentally-friendly with very low power consumption.

The LU210 is a single input encoder offering extensive flexibility and resiliency. It supports HD video transmission allowing the use of multiple network paths including dual LAN, Wi-Fi, external 3G/4G USB modems, and the LiveU Xtender.

The LU220 expands on the LU210 platform by offering higher density and greater versatility with two independent encoders in the same 1U chassis. When paired with two Xtenders, the LU220 can be used for next generation dual-path, all-cellular mobile units, or in fixed locations where multiple paths are needed and density is a critical factor.

With external intuitive front panel control and integrated power supply, the LU210 and LU220 encoders incorporate LiveU's unique Reliable Transport protocol (LRT™) to deliver optimized video performance over the most unreliable networks. Both encoders integrate with LiveU Central, a cloud-based management platform, for full control and monitoring via any browser supported device, making management of any size deployment faster and easier.

LU210 | LU220 ENCODERS

Technical Specifications

HW CONFIGURATION	LU210: single encoder in a 1U standard rackmount configuration LU220: two independent encoders in a 1U standard rackmount configuration
VIDEO RESOLUTIONS	1080p50/60/25/30/24, 1080i50/60, 720p50/60/25/30/24, PAL, NTSC full A/V auto detection
VIDEO INTERFACES	Per encoder: 3G/HD/SD-SDI, HDMI 1.4, auto input detection
VIDEO ENCODER	H.264 AVC high profile
AUDIO ENCODER	AAC-LC
VIDEO TRANSPORT	RTP
SIMULTANEOUS BONDING	Per encoder: 2x Ethernet ports for connection to LAN, satellite (BGAN/KA/KU over IP), 6 external cellular network connections (when used with LiveU Xtender), 1x USB for connection to 3G/4G cellular modems, and Wi-Fi
SUPPORTED TECHNOLOGIES	4G LTE, HSPA+, HSUPA, HSDPA, UMTS, CDMA EVDO Rev 0/A/B, Mobile WiMAX, and external Wi-Fi 802.11 a,b,g & n support
MULTI-PROFILE SELECTION	Low latency mode, maximum quality mode for increased compensation in noisy networks
MULTI-TARGET OUTPUT	Diverse A/V output through SDI and H.264 streams including connectivity for CDNs
POWER SOURCES	AC: 100V to 240V Power usage LU210: <25W Power usage LU220: <45W
AUTO POWER UP	Power-on feature suitable for automatic vehicle operation (power on with vehicle.) Each encoder is switched individually.
LOCAL CONTROL	Per encoder: Full monitoring and control using local screen and joystick interface
REMOTE CONTROL	Full control through LiveU Central with desktops, laptops, smartphones, or tablets, via any web browser
PREVIEW	Video preview; per-network cellular connectivity status including throughput, network delay etc.
RESILIENCY AND QUALITY	Includes LiveU Reliable Transport (LRT™), featuring proprietary algorithms such as automatic Adaptive Bit Rate (ABR), automatic Forward Error Correction (FEC) and other lost packet recovery algorithms; video encoding bit rate is set automatically
PROFESSIONAL FEATURES	End-to-end low latency mode; Store & Forward; File Transfer (FTP)
DATA INTERFACES	Per encoder: 1x USB 2.0, 1x Mini-USB, 2x RJ-45 Ethernet, 3.5mm out audio jack (with tie down), micro SD, RP-SMA Wi-Fi
DIMENSIONS	Industry-standard 1U rackmount server: 42.4 H x 434.0 W x 340 D (mm) / 1.66" H x 17.09" W x 13.38" D (in)
WEIGHT	LU210: 3.88 kg (8.55 Lbs) ; LU220: 4.06 kg (8.94 Lbs)
VIBRATION	MIL-STD-810G method 514.6	Category 4
TEMPERATURE	Operating: -5C to +45C (23F to 113F)

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