



LU70L-HDN

The Professional-Grade Transmission System for Fast Field Operation

LiveU's LU70L-HDN is the professional-grade cellular-based live video uplink solution for global broadcasters offering satellite-like resiliency on-the-move. The LU70 bonds up to 14 3G/4G LTE, WiMAX and Wi-Fi modems simultaneously, supporting the growing range of cellular network bands worldwide.

Just turn on the newly optimized LU70 and in under a minute you'll be ready to go live at the touch of a button. The LU70L is fully compatible with LU-Central, our management and monitoring system in the cloud, and includes professional features, such as: One-Touch-Live (LiveU OTL™) mode with automatic adjustment of video resolutions for fast and easy live video transmission; and higher quality encoding throughput for even better video quality.

Wireless connectivity to the new external antenna array provides additional resiliency for extreme scenarios. With its optional roof-mounted antenna array, LiveU's LU70 facilitates a trailblazing new mobile newsgathering (MNG) vehicle, offering wider opportunities for breaking news and events coverage, with faster set-up time and a lower overhead than traditional satellite trucks.

For immediate, one-touch operation in the field

Product	Integrated Unit	Audio / video encoder, SSD drive, cellular & wireless modems, internal battery
	Backpack	Custom design, professional-grade back harness
Video Input	Resolutions	1080i50/60, 720p50/60, 720p25/30, D1, Half D1, CIF
	HW Interfaces	SDI, HDMI, Analog (composite, component, S-Video), DV / IEEE-1394
	Video Formats	HD/SD-SDI, PAL / NTSC (SMPTE 259M, 292, 296M), DV25, DV50, DV100, DVCAM, DVCPRO/50/100; future HDV; HDMI 1.3, full A/V auto detection
Audio / Video Encoding	Video Encoder	H.264 AVC high profile; supports 4:2:2 color space; over 10Mbps throughput
	Audio Encoder	LC/HEV2 AAC
	Video Transport	RTP/RTCP, MPEG2-TS
Integrated Bonded Interfaces	Simultaneous Bonding	Up to 14 4G LTE / 3G cellular, Wi-Fi or WiMAX, Dual-Ethernet, Dual-Satellite (BGAN)
	Supported Technologies	4G LTE, HSPA+, HSUPA, HSDPA, UMTS, CDMA EVDO Rev 0/A/B, Mobile WiMAX, Wi-Fi 802.11 a,b,g & n (with MIMO)
Proprietary RF Technology	External Antenna Array	Wireless connectivity to the optional roof-mounted LiveU Xtender antenna array for use in extreme connectivity scenarios
Operational Modes	Portability	Vehicle-mounted; single-person carried and operated even while on the move
	Profiles Selection	User can select profiles to optimize for lowest latency or highest video quality and resiliency
	End-to-end Latency	Interview profile: as low as 1.2 seconds
	Transmission Continuity	One-Touch-Live includes Auto Resolution / Auto Frame-rate, provides the best picture quality Continuous audio even under poor network conditions
	Multi-unit Support	Multiple field units can transmit to the same server and output to multiple SDI, FME, H.264 streams
Power	Power Sources	Internal battery: At least 1.5 hrs of continuous transmission Anton Bauer/V-MOUNT/Sony batteries: Support for all leading battery systems Vehicle lighter input: 12VDC AC: 90V to 230V
User Interface	Local Control	Full monitoring and control using touch-screen UI with lock-screen option
	Remote Control	Full control and monitoring from any Chrome browser via LU-Central V _r . and above
	Preview	Local video preview; per-network cellular connectivity status incl. RSSI, throughput, network delay
Rich Feature Set	Features	Optimized boot-up, ready to transmit in under a minute; Fast File Transfer(FTP) for fast upload of pre-recorded material from anywhere into the workflow IFB(return audio channel from studio), Store & Forward, local recording on the transmitting unit or on externally attached storage device
	Resiliency and Quality	Top video quality and resiliency through automatic dynamic algorithms such as automatic Adaptive Bit Rate (ABR) over Constant Bit Rate (CBR) or Variable Bit Rate (VBR), vVideo encoding and VBR video encoding are set automatically; automatic Forward Error Correction (FEC), One-Touch-Live algorithms including Auto-Resolution and Auto-Frame Rate
Physical	Dimensions	25 x 36 x 11.5 cm / 9.84 x 14.17 x 4.5 inches
	Weight	~5kg / ~11.5lbs with battery