

LU700

The Hybrid Video Uplink System for Vehicles and Fixed Locations



The LU700-SV takes LiveU's industry-leading LU500 and repackages it into a 1U rack-mount server configuration for SNG trucks and fixed installations, allowing news teams to enjoy the benefits of both satellite and cellular networks for live newsgathering in diverse scenarios.

Using LiveU's patented bonding technology, the LU700-SV provides resilient live HD video transmission for 24/7 news and events coverage on-the-move and in fixed locations, optimizing all available bandwidth to deliver broadcast-quality video.

The LU700-SV can be connected to the car-mounted LiveU Xtender external antenna as well as to your existing satellite equipment to create a hybrid cellular/satellite solution for guaranteed bandwidth in remote areas. Use the satellite when stationary, then seamlessly switch to the cellular networks provided by the Xtender while on the move.

The LU700-SV joins LiveU's products within LiveU Connect, LiveU's single multi-layered live video ecosystem, which includes: front-end field acquisition cellular bonding products; back-end servers; and the LiveU Central management platform that allows full configuration, control and monitoring of the entire ecosystem and content via any browser-supported device.

LU700 Technical Specifications

PRODUCT	HARDWARE CONFIGURATION	1U standard rackmount configuration
VIDEO INPUT	RESOLUTIONS	1080p24, 1080i50/60, 720p50/60/25/30, PAL, NTSC
	HW INTERFACES	HD/SD-SDI
	VIDEO FORMATS	HD-SDI, SD-SDI, PAL/NTSC (SMPTE 425M, 424M, 259M, 292, 296M), full A/V auto detection
	VIDEO ENCODER	H.264 AVC high profile
AUDIO / VIDEO ENCODING	AUDIO ENCODER	AAC-LC
	VIDEO TRANSPORT	RTP
	SIMULTANEOUS BONDING	2 x Ethernet ports for connection to satellite (BGAN / Ka-SAT etc.), 6 external cellular network connections (when used with LiveU Xtender),
INTEGRATED BONDED INTERFACES	SUPPORTED TECHNOLOGIES	4G LTE, HSPA+, HSUPA, HSDPA, UMTS, CDMA EVDO Rev 0/A/B, Mobile WiMAX, and internal Wi-Fi 802.11 a,b,g & n support
	ANTENNA ARRAYS	(When used with LiveU Xtender) benefits in video quality, resiliency, coverage, operation in areas of poor coverage, on-the-drive, and even in crowded areas. Support for all common wireless frequencies including LTE
PROPRIETARY RF TECHNOLOGY		
OPERATIONAL MODES	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	REMOTE CONTROL	Full control via Windows-based RCA software (provided)
	PREVIEW	Video preview; per-network cellular connectivity status incl. throughput, network delay etc.
	RESILIENCY AND QUALITY	Top video quality and resiliency through algorithms such as automatic Adaptive Bit Rate (ABR). Video encoding bit rate is set automatically; automatic Forward Error Correction (FEC) and other lost packet recovery algorithms to maximize Quality of Experience for the end-user
RICH FEATURE SET	PROFESSIONAL FEATURES	Low latency for studio interviews; Store & Forward; file transfer (FTP); video preview;
	DATA	RJ-45 Ethernet, USB
PHYSICAL & INTERFACES	DIMENSIONS	Industry-standard 1U rackmount server: 42.4 H x 434.0 W x 394.3 D (mm) / 1.66" H x 17.09" W x 15.52" D (in)
	TEMPERATURE	Operating: 10C to 35C

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