LU500

The Ultimate Lightweight Unit for Professional Newsgathering

Powered by LiveU's multi-processor video encoding engine and weighing around 1 kg (2.2 lbs), LU500 represents the ultimate uplink device for professional newsgathering. With its proprietary internal antenna, the LU500 optimizes available bandwidth to deliver broadcast-quality, resilient live HD video transmission for 24/7 news and events coverage on-the-move and in fixed locations.

The LU500 combines high performance and portability with an end-to-end boot-up time of less than one minute. The unit supports Anton Bauer, V-Lock, PAG, and LiveU's internal swappable batteries and offers advanced remote control functions via the LiveU Central management platform.

LU500, with the new multi-media processors, offers up to ten bonded connections plus WiFi and two LAN connections. The unit can be connected to the LiveU Xtender external antenna for extra-resiliency in challenging conditions, and connected to satellite equipment to create a hybrid cellular/satellite solution for guaranteed bandwidth in remote areas. The LU500 can also support additional optional modems via external USB ports.

The LU500 is the latest product solution 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.

Live HD Video Wherever, Whenever

Video Input	Portability	Custom design, professional-grade backpack
	Resolutions	1080i50/60, 720p50/60/25/30, PAL, NTSC
	HW Interfaces	HD/SD-SDI, HDMI, Analog (composite, Y/C, component and stereo audio)
Audio / Video Encoding	Video Formats	HD-SDI, SD-SDI, PAL/NTSC (SMPTE 425M, 424M, 259M, 292, 296M), HDMI 1.3, full A/V auto detection
	Video Encoder	H.264 AVC high profile
	Audio Encoder	AAC-LC
	Video Transport	RTP
Integrated Bonded Interfaces	Simultaneous Bonding	Up to 14 network links; inc. 8 x integrated 4G LTE / 3G cellular or WiMAX modems + internal Wi-Fi and 2 Ethernet ports
	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
Proprietary RF Technology	Antenna Arrays	Benefits in video quality, resiliency, coverage, operation in areas of poor coverage, on-the-drive, and even in crowded areas. Enhanced support for all common wireless frequencies including LTE
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	Power Sources	*Integral battery:* 3 hours *Vehicle Lighter input*: 12VDC *AC*: 100V to 240V
User Interface	Local Control	Full monitoring and control using touch-screen UI
	Remote Control	Full web-based remote control from laptops, or Google Chrome based browsers
Rich Feature Set	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
	Professional Features	Low latency for studio interviews; Store & Forward; file transfer (FTP); video and audio indicators; under one minute boot-up time; and the ability to control the unit from its touch screen, the server or from any web enabled device
Physical & Interfaces	Data	Micro SD Card Slot, Micro USB 2.0 OTG, RJ-45 Ethernet, Audio jack (in + out)
	Dimensions	*With 3hr battery:* 129mm x 150mm x 58mm / 5.07" x 5.9" x 2.3" (W x H x D)
	Weight	1.08kg (38oz) without battery, 1.68kg (59oz) with 3hr battery
	Temperature	*Operating*: -5C to +45C (23F to 113F)

LiveU - International

www.liveu.ws