



LU500

THE 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 can be controlled by a single operator in the field using an intuitive touch-screen interface or controlled remotely from any computer using the LiveU Central management platform.



LU500 FIELD UNIT

Technical Specifications

INTEGRATED UNIT	Video/Audio integrated encoder
PORTABILITY	Professional-grade backpack
RESOLUTIONS	1080p50/60/25/30, 1080i50/60, 720p50/60/25/30, PAL, NTSC
HW INTERFACES	SDI, HDMI
VIDEO FORMATS	3G/HD/SD-SDI, HDMI 1.4, full A/V auto detection
VIDEO ENCODER	H.264 AVC high profile
AUDIO ENCODER	AAC-LC
VIDEO TRANSPORT	RTP
SIMULTANEOUS BONDING	Up to 13 network links; inc. 6-8 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
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
MULTI-PROFILE SELECTION	Live: Low latency or maximum quality modes Store and Forward: Three quality-levels (for optimal quality vs speed) FTP: Bonded file transfer
MULTI-TARGET OUTPUT	Diverse A/V output through SDI and H.264 streams including connectivity for CDNs
POWER SOURCES	Integral battery: 4 hours Vehicle Lighter input: 12VDC AC: 100V to 240V
LOCAL CONTROL	Full monitoring and control using touch-screen UI
REMOTE CONTROL	Full web-based remote control from laptops, or Google Chrome based browsers
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
DATA	Micro SD Card Slot, Micro USB 2.0 OTG, RJ-45 Ethernet, Audio jack (in + out)
DIMENSIONS	With 3hr battery: 150mm x 225mm x 70mm / 5.9" x 8.8" x 2.7" (W x H x D)
WEIGHT	1.08kg (38oz) without battery, 1.68kg (59oz) with 3 hr battery
TEMPERATURE	Operating: -5C to +45C (23F to 113F)

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