

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 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 Technical Specifications

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| PRODUCT | INTEGRATED UNIT | Audio / video encoder, micro SD card, cellular & wireless modems, internal battery |
| | PORTABILITY | Custom design, professional-grade backpack |
| VIDEO INPUT | RESOLUTIONS | 1080p50/60/25/30/24, 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 |
| AUDIO/VIDEO ENCODING | VIDEO ENCODER | H.264 AVC high profile |
| | AUDIO ENCODER | AAC-LC |
| | VIDEO TRANSPORT | RTP |
| INTEGRATED BONDED INTERFACES | 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 |
| 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 |
| | PREVIEW | Video preview; per-network cellular connectivity status incl. throughput, network delay etc. |
| RICH FEATURE SET | 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: 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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