



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 thirteen network links including six-eight internal bonded 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 part of 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.

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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 | HD/SD-SDI, HDMI, Analog (composite, Y/C, component and stereo audio) |
| | Video Formats | HD-SDI, SD-SDI, PAL/NTSC (SMPTE 425M, 424M, 259M, 292, 296M), HDMI 1.3, 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. 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 | <i>Integral battery: 2 hours</i> <i>Vehicle Lighter input: 12VDC</i> <i>AC: 100V to 240V</i> |
| 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 | <i>With 1.5hr battery: 129mm x 150mm x 58mm / 5.07" x 5.9" x 2.3" (W x H x D)</i> |
| | Weight | 1.08kg (38oz) without battery, 1.68kg (59oz) with 2hr battery |
| | Temperature | <i>Operating: -5C to +45C (23F to 113F)</i> |

For more information:

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