heynen

Heynen works for innovators

Heynen works for innovators

The ever-increasing demand for live coverage means that broadcasters and online media professionals are looking for new ways to deliver non-stop live video to their viewers.

With LiveU's COMPLETE family of 3G/4G bonded uplink products, more options are available for live news and event coverage.
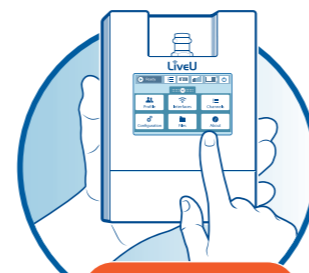
All LiveU products operate with a single ecosystem, LiveU Central, enabling control rooms to manage multiple incoming video feeds and content simply and effectively from units operating in different locations.

LU400 – Broadcast-quality, Lightweight Field Unit

Powered by the NEW video encoding engine, LU400 offers robust high-quality video with four modems (plus two network connections) in a compact mobile device.

LiveU Central – Central Monitoring & Control

LiveU Central is the central management system controlling all LiveU units from any web-enabled device. Enables point-to-multipoint distribution for live broadcasting to multiple destinations concurrently.

LU-Xtender – External Antenna for Extra-Strong Resiliency

Vehicle or tripod-mounted, the Xtender offers extra-strong resiliency in extreme scenarios, such as crowded stadiums.

LU700-SV – Hybrid Video Uplink Solution for Vehicles

LiveU's latest integrated solution enables news teams to enjoy the benefits of both satellite and cellular networks for live newsgathering in diverse locations.

LU-Lite – Bonded Software Solution (Win / Mac)

Out in the field, finished editing and need to get the file back to the studio ASAP? LU-Lite enables fast and reliable file transfer over multiple platforms, from fixed locations, in the field and on-the-move.

LU500 – The Ultimate Lightweight Field Unit for Professional Day-to-Day Newsgathering

Powered by the NEW video encoding engine and offering eight modems (plus two network connections), LU500 represents the ultimate lightweight uplink device for professional day-to-day newsgathering.

LU70 – The Industry-Standard Professional Backpack

With up to 14 network connections and a second-generation proprietary internal antenna array, the LU70 offers superior resiliency in challenging network conditions.
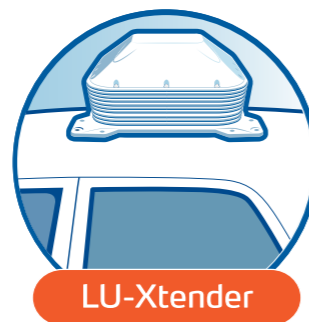
SmartGRIP – Innovative Smartphone Monopod

Complementing the LU-Smart, the SmartGRIP boosts smartphone usage with additional cellular channel and battery.
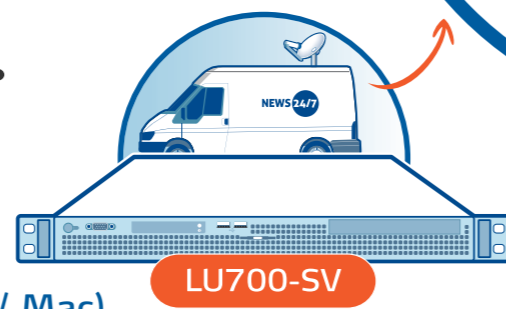
LU-Smart – Impromptu Mobile Newsgathering

Bringing bonded transmission to mobile phones and tablets, LiveU's mobile app solution allows LiveU's broadcasting and online video customers to extend their coverage from the field using any iOS or Android device.

LU1000 / LU2000 – Single Server Output

Receiving live streams from LiveU's field units, each server can support up to five simultaneous SDI outputs for broadcasting applications and direct encoding to any CDN.

LiveU Central
Unified Management System

Single Server Output

LU500
LU400
LU70
LU-Xtender
SmartGRIP
LU700-SV
LU-Smart (iOS / Android)
LU-Lite (Win / Mac)

LU-Smart Mobile App Solution

Bringing Bonded Transmission to Mobile Phones and Tablets

LiveU's new mobile app solution allows LiveU's broadcasting and online video customers to extend their coverage from the field using an iPhone or iPad.
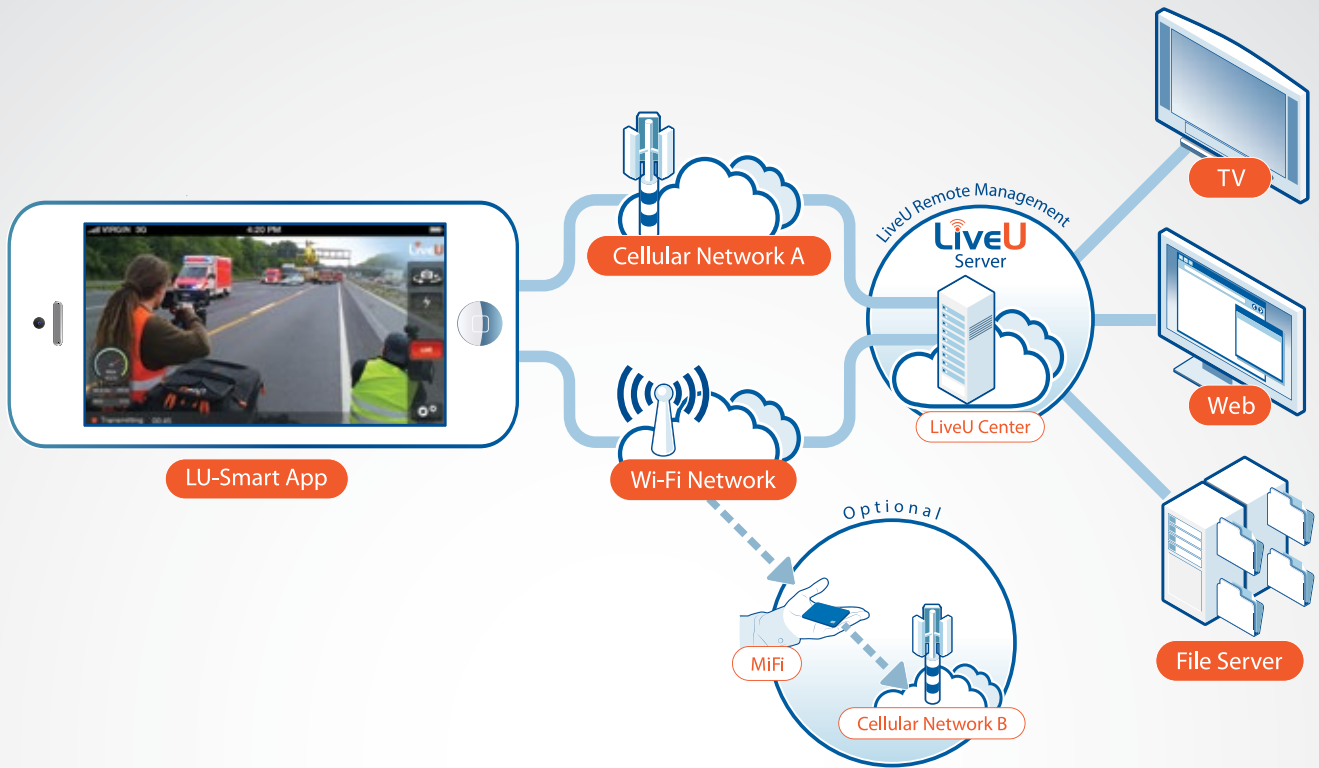
Based on LiveU's fourth-generation bonded uplink technology, the LU-Smart bonds internal Wi-Fi and cellular connections to reach optimal video quality. Operators can combine available networks to support connection to an external MiFi, enabling the bonding of two cellular connections in a single smartphone. In this way, users can bond the phones' internal 3G/4G with external 3G/4G for a very fast uplink.

LU-Smart connects to your existing LiveU receiving server and is incorporated into the LiveU ecosystem by LiveU's unified management platform, the LiveU Total Platform™, enabling control rooms to manage multiple video feeds from LiveU units operating in diverse locations for a smoother workflow configuration.
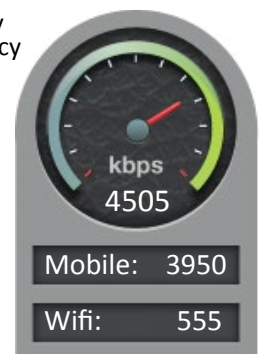
Live Video Wherever, Whenever

LU-Smart
Mobile App Solution

GO LIVE!

LU-Smart App

Cellular Network A

Wi-Fi Network

LiveU Remote Management

LiveU Server

LiveU Center

Optional

MiFi

Cellular Network B

TV

Web

File Server

OS Support	Supports iOS 5 upwards on iPhone 4S, iPhone 5, iPad
Video	Adaptive Rate Video encoding Output Resolution: 720x576 (PAL) 720x480 (NTSC)
Audio	Format: Advanced Audio Coding (AAC) Sample Rate: 48Khz Channels: 2 (mono duplicated to stereo) Bitrate: 64Kbps
Output	Connects to LiveU LU40i receiver / server

LU-Smart Features

- Bonds 3G/4G and Wi-Fi networks to send up to 5 Mbps professional quality video content with sub 2-second latency
- LiveU Center remote management
- Connectivity to CDN/SDI out
- Simplified GUI
- Switch camera view
- Phone internal Flash control
- LiveU reliable video protocol and advanced FEC
- Android App coming soon

kbps
4505

Mobile: 3950

Wifi: 555

For more information:

LiveU - US & International

LiveU Inc.
2 University Plaza, Suite 505, Hackensack,
New Jersey 07601, USA
Tel: 1-(201)-742-5228

US & Americas: info_us@liveu.tv
International: info@liveu.tv

www.liveu.tv | www.facebook.com/LiveU.Fans | www.twitter.com/liveu

LU-Lite Laptop Solution

Fast and Reliable File Transfer and Live Video via your Laptop

LiveU's new bonded laptop solution offers fast, reliable and high-quality mobile bonded transmission via the laptop, using up to four simultaneous Wi-Fi, LAN, cellular and satellite connections. With a user-friendly interface, the LU-Lite software is easy to use and highly flexible, supporting any camera input provided by your hardware.
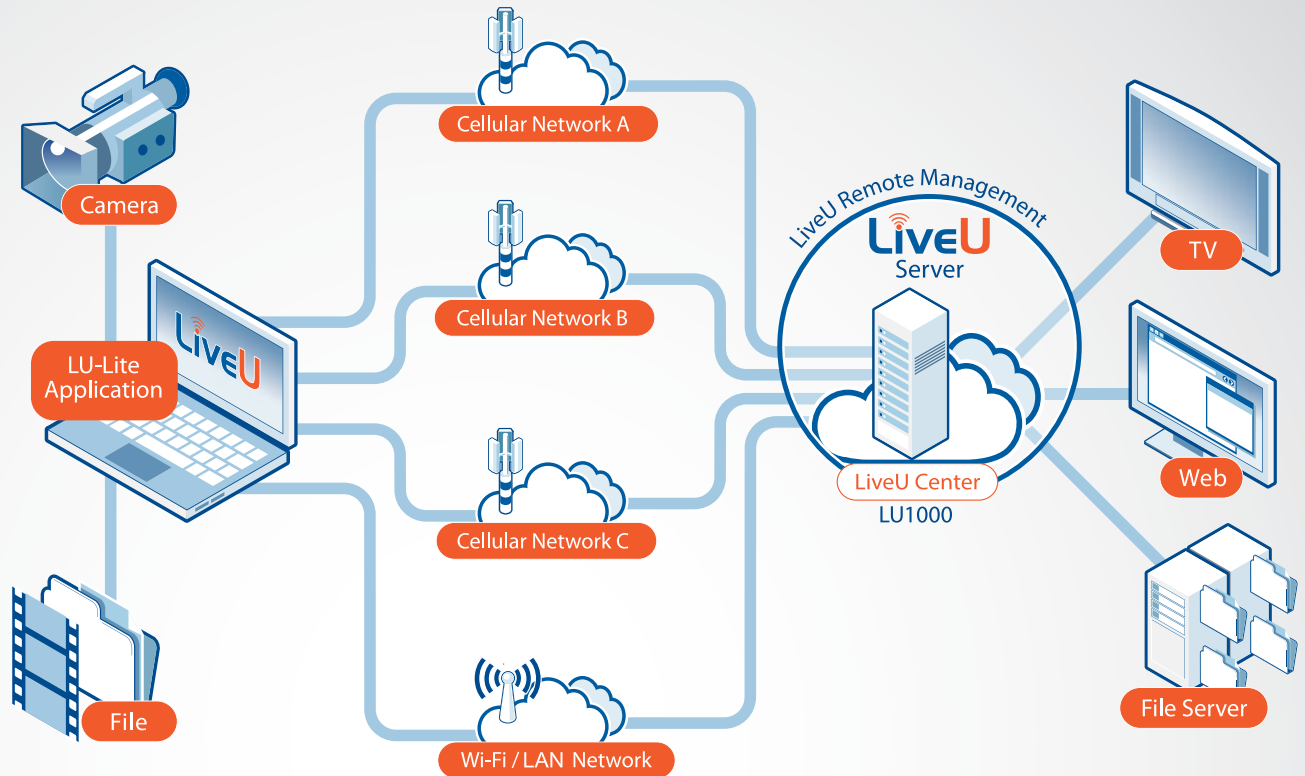
Based on LiveU's fourth-generation bonded uplink technology, the LU-Lite software serves a wide variety of applications and workflows in the field, including file transfer and Store & Forward as well as editing and live interviews using the laptop webcam. The software also includes an advanced Compress & Forward feature for even faster content transfer.

LU-Lite connects to your existing LiveU receiving server and is incorporated into the LiveU ecosystem by LiveU's unified management platform, the LiveU Total Platform™, enabling control rooms to manage multiple video feeds from LiveU units operating in diverse locations for a smoother workflow configuration.

Live Video Wherever, Whenever

LU-Lite
Laptop Solution

LU-Lite Features

- Bonds 3x 3G/4G and Wi-Fi networks
- File Transfer
- Store & Forward
- Advanced Compress & Forward for content transfer
- Live broadcast using the laptop webcam or connected camera
- Custom simplified GUI

Minimum Requirements: Win XP/Win7; Intel i3 processor or similar for File Transfer; Intel i5 or similar for live SD; Intel i7 or similar for live HD.

For more information:

LiveU - US & International

LiveU Inc.
2 University Plaza, Suite 505, Hackensack,
New Jersey 07601, USA
Tel: 1-(201)-742-5228

US & Americas: info_us@liveu.tv
International: info@liveu.tv

www.liveu.tv | www.facebook.com/LiveU.Fans | www.twitter.com/liveu

LU700-SV

The Hybrid Video Uplink System for Vehicles and Fixed Locations

The LU700-SV takes LiveU's industry-leading LU70 and repackages it into a 1U rackmount 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.

Live HD Video for Global Broadcasters

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
Audio / Video Encoding	Video Encoder	H.264 AVC high profile
	Audio Encoder	AAC-LC
	Video Transport	RTP
Integrated Bonded Interfaces	Simultaneous Bonding	2 x Ethernet ports for connection to satellite (BGAN / Ka-SAT etc.), 6 external cellular network connections (when used with LiveU Xtender),
	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	(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
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	*AC*: 100V to 240V
	Remote Control	Full control via Windows-based RCA software (provided)
	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 preview;
Physical & Interfaces	Data	RJ-45 Ethernet, USB
	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

For more information:

LiveU - US & International

LiveU Inc.
2 University Plaza, Suite 505, Hackensack,
New Jersey 07601, USA
Tel: 1-(201)-742-5228
US & Americas: info_us@liveu.tv
International: info@liveu.tv

www.liveu.tv | www.facebook.com/LiveU.Fans | www.twitter.com/liveu

LiveU
Portable Uplink Solutions

LU40i

Compact, Lightweight Device for High-Quality Live Video Transmission over Multiple Cellular Networks

The LU40i offers a ground-breaking high-quality video uplink solution for coverage of events, such as sports, music, advertising, religious gatherings, community and corporate sponsorship. It comes in a substantially smaller form factor and has been specially designed to meet the needs of media professionals on the move.

Supporting up to four 4G LTE/3G cellular, and additional WiMAX, Wi-Fi and LAN links, the LU40i leverages LiveU's breakthrough algorithms for superior resiliency and sustained video transmission. It includes LiveU's versatile encoding capabilities for transmitting high-quality HD/SD video from diverse locations, adapting to dynamic network conditions.

Weighing less than 700g (25oz), the LU40i can be seamlessly connected to most commercially available cameras and comes with an easy-to-use touchscreen interface.

Live HD Video Wherever, Whenever

Product	Integrated Unit	Audio / video encoder, micro SD card, cellular & wireless modems, internal battery
	Portability	Custom design, professional-grade side-pouch, belt-attachment
Video Input	Resolutions	1080p50/60/25/30/24, 1080i50/60, 720p50/60/25/30/24, 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 main profile
	Audio Encoder	AAC-HE
	Video Transport	RTP
Integrated Bonded Interfaces	Simultaneous Bonding	Up to 6 network links; inc. 4 x integrated 4G LTE / 3G cellular or WiMAX modems + internal Wi-Fi and Ethernet
	Supported Technologies	4G LTE, HSPA+, HSUPA, HSDPA, UMTS, CDMA EVDO Rev 0/A/B, Mobile WiMAX, Wi-Fi 802.11 a,b,g & n
Operational Modes	Dual Profile	Low latency mode Maximum Quality mode for increased compensation in noisy networks
	Multi-target Output	Diverse A/V output through SDI, FME, Wowza and H.264 streams
Power	Power Sources	*Two sizes of integral battery:* 1 hour & 3 hours *Vehicle Lighter input*: 12VDC *AC*: 100V to 240V
User Interface	Local Control	Full monitoring and control using touch-screen UI with lock-screen option
	Remote Control	Full web-based remote control from smartphones, laptops, etc.
	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
Physical & Interfaces	Data	Micro SD Card Slot, Micro USB 2.0 OTG, RJ-45 Ethernet, Audio jack (in + out)
	Dimensions	*With 1hr battery:* 129mm x 150mm x 58mm / 5.07" x 5.9" x 2.3" (W x H x D)
	Weight	500g (17.6oz) without battery, 700g (25oz) with 1hr battery, 1000g (35.2oz) with 3hr battery
	Temperature	*Operating*: -5C to +45C (23F to 113F)

For more information:

LiveU - US & International

LiveU Inc.
2 University Plaza, Suite 505, Hackensack,
New Jersey 07601, USA
Tel: 1-(201)-742-5228
US & Americas: info_us@liveu.tv
International: info@liveu.tv

www.liveu.tv | www.facebook.com/LiveU.Fans | www.twitter.com/liveu

LU40-S

Compact, Lightweight Live Video Transmission Device for Broadcast Media Incorporating LiveU's Proprietary Internal Antenna for Greater Resiliency

The handheld LU40-S device offers broadcast media a highly robust, portable and cost-effective HD video uplink device. The LU40-S includes LiveU's proprietary internal antenna for stronger connectivity and a wide range of features and capabilities for live newsgathering. These include: low latency for interview-mode; 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.

With its antenna and modules LU40-S supports a large number of cellular and Wi-Fi frequencies including 4G LTE, ensuring enhanced signal performance with long-range reception and increased uplink capability. Weighing less than 700g (25oz), the LU40-S can be seamlessly connected to most commercially available cameras and comes with an easy-to-use touchscreen interface.

Live HD Video Wherever, Whenever

Product	Integrated Unit	Audio / video encoder, micro SD card, cellular & wireless modems, internal battery
	Portability	Custom design, professional-grade side-pouch, belt-attachment
Video Input	Resolutions	1080p50/60/25/30/24, 1080i50/60, 720p50/60/25/30/24, 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 main profile
	Audio Encoder	AAC-HE
	Video Transport	RTP
Integrated Bonded Interfaces	Simultaneous Bonding	Up to 6 network links; inc. 4 x integrated 4G LTE / 3G cellular or WiMAX modems + internal Wi-Fi and Ethernet
	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	*Two sizes of integral battery:* 1.5 hour & 3 hours *Vehicle Lighter input*: 12VDC *AC*: 100V to 240V
User Interface	Local Control	Full monitoring and control using touch-screen UI with lock-screen option
	Remote Control	Full web-based remote control from smartphones, laptops, tablets 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 1.5hr battery:* 129mm x 150mm x 58mm / 5.07" x 5.9" x 2.3" (W x H x D)
	Weight	500g (17.6oz) without battery, 700g (25oz) with 1.5hr battery, 1000g (35.2oz) with 3hr battery
	Temperature	*Operating*: -5C to +45C (23F to 113F)

For more information:

LiveU - US & International
LiveU Inc.
2 University Plaza, Suite 505, Hackensack,
New Jersey 07601, USA
Tel: 1-(201)-742-5228
US & Americas: info_us@liveu.tv
International: info@liveu.tv

www.liveu.tv | www.facebook.com/LiveU.Fans | www.twitter.com/liveu

LU400

Broadcast-quality, Compact Uplink Unit

Powered by LiveU's multi-processor video encoding engine and weighing around 700g (25oz), LiveU's LU400 represents a highly cost-effective, portable and robust HD video uplink device. LU400 is available in various configurations including belt-clip or camera-mount.

The LU400 offers a wide range of features and capabilities for live news gathering, including: low latency for interview-mode; 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.

With proprietary internal antennas, the LU400 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 LU400 offers up to 6 bonded connections, including four internal cellular modems, WiFi, two LAN connections and two external USB ports.

The LU400 joins the LU500 as the latest product solutions 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

Product	Integrated Unit	Audio / video encoder, micro SD card, cellular & wireless modems, internal battery
	Portability	Custom design, professional-grade backpack or camera-mounted configurations
Video Input	Resolutions	1080p50/60/25/30, 1080i50/60, 720p50/60/25/30, PAL, NTSC
	HW Interfaces	HD/SD-SDI, HDMI
	Video Formats	HD-SDI, SD-SDI, PAL/NTSC (SMPTE 425M, 424M, 259M, 292, 296M), HDMI 1.4a, 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. 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:* 2 hours *Vehicle Lighter input*: 16VDC (requires power transformer) *AC*: 100V to 240V Optional support for Anton Bauer, V-Lock, and PAG power-packs
User Interface	Local Control	Full monitoring and control using touch-screen UI
	Remote Control	Full web-based remote control via LiveU Central (requires Google Chrome based browser)
	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, Mini USB 2.0 OTG, RJ-45 Ethernet, Audio jack (in + out)
	Dimensions	*With 2hr battery:* 148mm x 225mm x 68mm / 5.83" x 8.85" x 2.68" (W x H x D)
	Weight	1.08Kg (38oz) without battery, 1.68Kg (59oz) with 2hr battery
	Temperature	*Operating*: -5C to +45C (23F to 113F)

For more information:

LiveU - US & International

LiveU Inc.
2 University Plaza, Suite 505, Hackensack,
New Jersey 07601, USA
Tel: 1-(201)-742-5228
US & Americas: info_us@liveu.tv
International: info@liveu.tv

www.liveu.tv | www.facebook.com/LiveU.Fans | www.twitter.com/liveu

LiveU
Portable Uplink Solutions

LU500

The Ultimate Lightweight Unit for Professional Day-to-Day Newsgathering

Powered by LiveU's multi-processor video encoding engine and weighing around 1 kg (2.2 lbs), LiveU's LU500 represents the ultimate uplink device for professional day-to-day newsgathering. With its proprietary internal antenna, the LU500 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.

With a boot-up time of under a minute, local and remote control functionality and additional support for industry standard Anton Bauer, V-Lock, and PAG power-packs, the LU500 combines the high performance and portability that you need to get your story out, wherever it may be.

The LU500 offers up to 13 bonded connections, including eight internal cellular modems, WiFi, two LAN connections and two external USB ports. For extra-resiliency in challenging conditions, the unit can be connected to the LiveU Xtender external antenna or connected to satellite equipment to create a hybrid cellular / satellite solution for guaranteed bandwidth in remote areas.

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 for Global Broadcasters

Product	Integrated Unit	Audio / video encoder, micro SD card, cellular & wireless modems, internal battery
	Portability	Custom design, professional-grade side-pouch, belt-attachment or camera-mounted configurations
Video Input	Resolutions	1080p50/60/25/30, 1080i50/60, 720p50/60/25/30, PAL, NTSC
	HW Interfaces	HD/SD-SDI, HDMI
	Video Formats	HD-SDI, SD-SDI, PAL/NTSC (SMPTE 425M, 424M, 259M, 292, 296M), HDMI 1.4a, 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 6 network links; inc. 4 x integrated 4G LTE / 3G cellular or WiMAX modems + internal Wi-Fi and Ethernet
	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	*Two sizes of integral battery:* 1.5 hour & 3 hours *Vehicle Lighter input*: 12VDC *AC*: 100V to 240V Optional support for Anton Bauer, V-Lock, and PAG power-packs
User Interface	Local Control	Full monitoring and control using touch-screen UI
	Remote Control	Full web-based remote control via LiveU Central (requires Google Chrome based browser)
	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 1.5hr battery:* 129mm x 150mm x 58mm / 5.07" x 5.9" x 2.3" (W x H x D)
	Weight	500g (17.6oz) without battery, 700g (25oz) with 1.5hr battery, 1000g (35.2oz) with 3hr battery
	Temperature	*Operating*: -5C to +45C (23F to 113F)

For more information:

LiveU - US & International

LiveU Inc.
2 University Plaza, Suite 505, Hackensack,
New Jersey 07601, USA
Tel: 1-(201)-742-5228
US & Americas: info_us@liveu.tv
International: info@liveu.tv

www.liveu.tv | www.facebook.com/LiveU.Fans | www.twitter.com/liveu

LiveU
Portable Uplink Solutions

LU70-HD

The Ultimate Transmission System for Professional News Gathering over Multiple Bonded Wireless Networks

LiveU's new LU70 offers the definitive cellular-based live video uplink solution for global broadcasters. **Bonding up to 14 cellular (4G LTE / 3G), WiMAX and Wi-Fi modems to provide a resilient, broadcast-quality video uplink**, the LU70 packs the capabilities of an HD Satellite truck into a professional backpack.

The LU70 system includes cutting-edge features, such as: **One-Touch-Live (LiveU OTL™)** mode with automatic adjustment of video resolutions for fast and easy live video transmission at the touch of a button; **point to multi-point distribution**, allowing a single device to broadcast live to multiple destinations concurrently; **increased encoding throughput** for even better video quality and an **instant Wi-Fi access point**, providing wireless connectivity over Wi-Fi for areas with limited network connections.

Transmitting live breaking news, sports and other events from almost anywhere around the globe has never been easier. Simply plug your HD camera into the LU70 and start your live transmission over the aggregated cellular and other links at the press of a button.

Superior Quality HD Video over Cellular Networks

Product	Integrated Unit	Audio / video encoder, SSD drive, cellular & wireless modems, internal battery
	Backpack	Custom design, professional-grade back harness
Video Input	Resolutions	1080i50/60, 720p50/60, 720p25/30, D1, Half D1, CIF
	HW Interfaces	SDI, HDMI, Analog (composite, component, S-Video), DV / IEEE- 1394
	Video Formats	HD/SD-SDI, PAL / NTSC (SMPTE 259M, 292, 296M), DV25, DV50, DV100, DVCAM, DVCPRO/50/100; future HDV; HDMI 1.3, full A/V auto detection
Audio / Video Encoding	Video Encoder	H.264 AVC high profile; supports 4:2:2 color space; over 10Mbps throughput
	Audio Encoder	LC/HEv2 AAC
	Video Transport	RTP/RTCP, MPEG2-TS
Integrated Bonded Interfaces	Simultaneous Bonding	Up to 14 4G LTE / 3G cellular, Wi-Fi or WiMAX, Dual-Ethernet, Dual-Satellite (BGAN)
	Supported Technologies	4G LTE, HSPA+, HSUPA, HSDPA, UMTS, CDMA EVDO Rev 0/A/B, Mobile WiMAX, Wi-Fi 802.11 a,b,g & n (with MIMO)
Operational Modes	Portability	Vehicle-mounted; single-person carried and operated even while on the move
	Profiles Selection	User can select profiles to optimize for lowest latency or highest video quality and resiliency
	End-to-end Latency	Interview profile: as low as under 1 sec
	Transmission Continuity	**One-Touch-Live** includes Auto Resolution / Auto Frame-rate, provides the best picture quality Continuous audio even under poor network conditions
	Multi-unit Support	Multi-point live forwarding functionality Multiple field units can transmit to the same server and output to multiple SDI, FME, H.264 streams
Power	Power Sources	*Internal battery*: At least 1. 5 hrs of continuous transmission *Anton Bauer/IDX/Sony batteries*: integral in the backpack support for all leading battery systems *Vehicle Lighter input*: 12VDC *AC*: 90V to 230V
User Interface	Local Control	Full monitoring and control using touch-screen UI with lock-screen option
	Remote Control	Full remote control from server side and from smartphones and laptops
	Preview	Video preview; per-network cellular connectivity status inc. RSSI, throughput, network delay etc.
Rich Feature Set	Features	**Fast File Transfer** (FTP) for fast upload of pre-recorded material from anywhere into the workflow **IFB** (return audio channel from studio), **Store & Forward**, local recording on the transmitting unit or on externally attached storage device, **Local Wi-Fi access point** provides the operator with Internet connectivity
	Resiliency and Quality	Top video quality and resiliency through automatic dynamic algorithms such as automatic Adaptive Bit Rate (ABR) over Constant Bit Rate (CBR) or Variable Bit Rate (VBR), video encoding and VBR video encoding are set automatically; automatic Forward Error Correction (FEC), One-Touch-Live algorithms including Auto-Resolution and Auto-Frame Rate
Physical	Dimensions	25 x 36 x 11.5 cm / 9.84 x 14.17 x 4.5 inches
	Weight	~5kg / ~11.5 lbs with battery

For more information:

LiveU - US & International

LiveU Inc.
2 University Plaza, Suite 505, Hackensack,
New Jersey 07601, USA
Tel: 1-(201)-742-5228
US & Americas: info_us@liveu.tv
International: info@liveu.tv

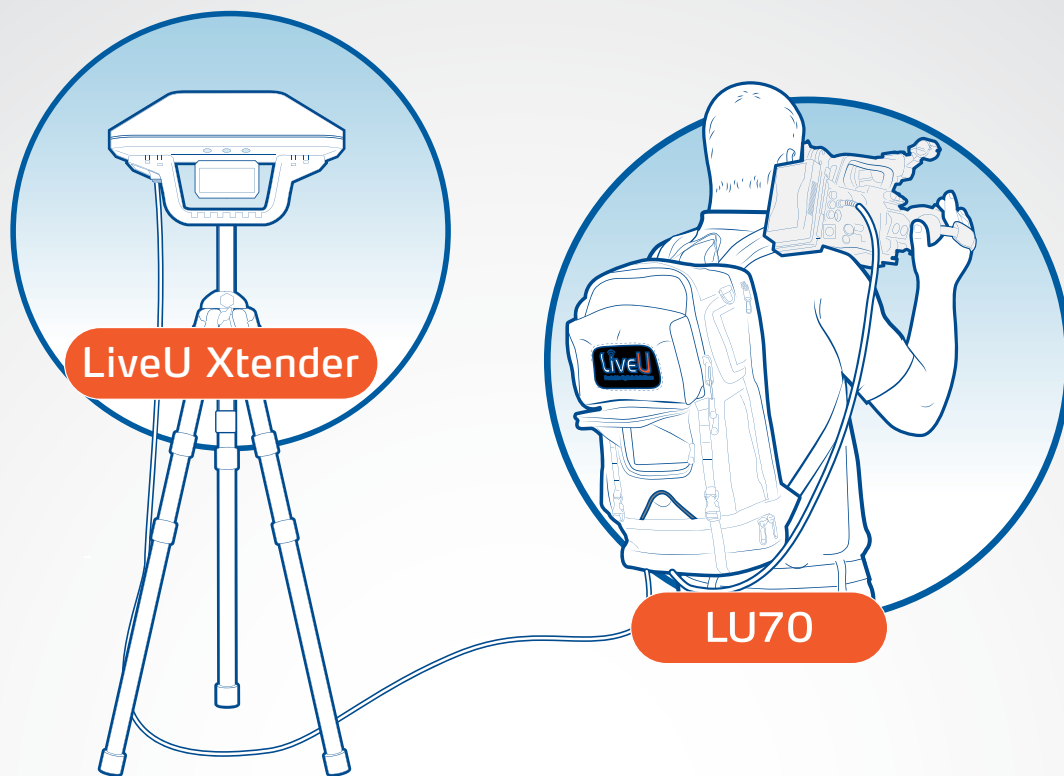www.liveu.tv | www.facebook.com/LiveU.Fans | www.twitter.com/liveu

LiveU Xtender

External antenna for extra-strong resiliency in extreme scenarios

LiveU's new external antenna, the LiveU Xtender, increases network reception, providing additional resiliency for live video transmission in extreme scenarios, such as heavily crowded locations.

The LiveU Xtender adds six additional network connections to LiveU's LU70 professional-grade backpack and covers all current 3G/4G LTE cellular network bands worldwide. The combined LU70 and Xtender solution supports up to 13 network connections.

The LiveU Xtender can be remotely-located or vehicle-mounted, creating a revolutionary mobile newsgathering (MNG) vehicle with satellite-like reliability, faster set-up time and lower overheads than traditional SNG trucks.

LiveU Xtender
External Antenna

LiveU Xtender

LU70

Network connections	Up to 6 4G LTE / 3G cellular, Wi-Fi MIMO 2.4/5.8G, Ethernet
Dimensions	270 x 355 x 260 cm / 10.6 x 13.9 x 10.2 inches
Weight	4Kg /8.8lbs (without battery)
Connectors	DC In/DC Out/Ethernet/USB Type A(host)/USB Type B(gadget)/RF
Power Handling	AC 100-240V/DC 12-19V
Battery support	Anton Bauer / IDX
Optimal Operation mode (length of USB cable from the device)	5m /16ft. (Up to 30m /98ft. with active USB extenders)
Frequencies	700MHz - 900MHz & 1.7GHz - 2.6GHz
Operating Temperature	-40C to +60C (-40F to 140F)

DOC00018-00

For more information:

LiveU - US & International

LiveU Inc.
2 University Plaza, Suite 505, Hackensack,
New Jersey 07601, USA
Tel: 1-(201)-742-5228

US & Americas: info_us@liveu.tv
International: info@liveu.tv

www.liveu.tv | www.facebook.com/LiveU.Fans | www.twitter.com/liveu

LiveU's Product Portfolio

LU400 – Enhanced Broadcast-quality, Lightweight Field Unit

- Four internal modems + two network connections
- Smallest form-factor with various configurations for greater flexibility
- New streamlined user-interface (GUI)
- Internal antenna for improved resiliency and RF performance

LU500 – Professional-Grade Lightweight Field Unit

- Eight internal modems + two network connections for stronger connectivity
- Small form-factor with various configurations for greater flexibility
- New streamlined user-interface (GUI)
- Internal antenna for improved resiliency and RF performance

LU70 – The Industry-Standard Professional Backpack

- Up to 14 simultaneous network connections
- Second-generation proprietary internal antenna array for extra resiliency
- Two switchable SIM sets for international roaming

SmartGRIP

- Pat.pending smartphone monopod (iOS/Android) with chargeable battery and MiFi channel
- Holds a smartphone and bonds with internal 3G/4G connection to combine two cellular connections beyond the smartphone for extra resiliency and performance

LU-Smart Mobile App Device

- Enables additional live video coverage from the field using iOS / Android devices
- Bonds internal Wi-Fi and 3G/4G LTE cellular connections to reach optimal video quality
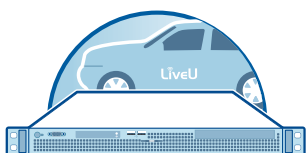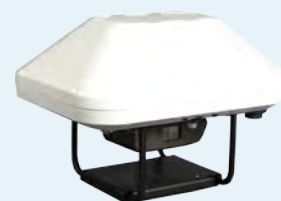
LU-Lite Bonded Software Solution (Win / Mac)

- Bonds up to four simultaneous Wi-Fi, LAN, cellular and satellite connections
- User-friendly interface, supports camera input provided by your hardware
- Includes: file transfer, Store & Forward, advanced Compress & Forward

LU-Xtender External Antenna

- Adds six network connections, covers 3G/4G LTE network bands worldwide
- Vehicle or tripod mounted (up to 1,000 ft/300m away from uplink unit)
- Connects to LiveU field units directly or via wireless kit

LU700-SV – Hybrid Video Uplink Solution for Vehicles

- Satellite-supported live video uplink device, augments satellite coverage with cellular networks
- Based on LiveU's LU70 software in a 1RU rackmount configuration

---

LiveU - US & International

heynen ....

Heynen werkt voor vernieuwers

Hierbij een document van Heynen. Deze producten worden door ons exclusief vertegenwoordigd in de Benelux. Voor een demo of offerte kan u rechtstreeks contact opnemen met onze account managers.

Heynen travaille pour des innovateurs

Voici un document de Heynen. Nous représentons ces produits exclusivement pour le Bénélux. N'hésitez surtout pas de demander votre personne de contacte pour un démo ou une proposition de prix.

Heynen works for Innovators

Here is a document from Heynen. We represent these products exclusively for the Benelux. Please contact our account managers for a quotation or demonstration.

Heynen Leistung für Neuerer

Anliegend eine Dokumentation von Heynen. Wir haben die exklusive Vertretung dieser Produkte für den Benelux-Raum. Bitte nehmen Sie Kontakt auf mit unserem Kundenbetreuer, falls Sie ein Angebot oder eine Vorführung benötigen.

heynen@heynen.com • www.heynen.com •