

Dejero

EnGo 3x

Multi-camera 5G mobile transmitter and internet gateway

EnGo 3x delivers superior 5G performance to reliably transmit video and data from anywhere.

EnGo 3x offers unmatched connectivity for mobile video professionals. Built from the ground up to harness the power of 5G connections, it efficiently encodes and securely transmits high-quality live video from the field in stunning 4K (3840x2160) resolution. Use the integrated GateWay mode to maximize performance and productivity while on the go with resilient, high-bandwidth, wireless internet access offering speeds up to 500 Mbps.

Whether you're broadcasting live from a crowded stadium or a remote location, our patented *Smart Blending Technology™* ensures the EnGo 3x performs in even the most challenging network conditions.



SBT / Smart Blending Technology **5G**



Superior RF and Antenna Design

EnGo 3x features four antennas per modem to achieve greater reliability and faster speeds. It also supports additional bands that other mobile transmitters can't connect to.



Multi-camera Support

Create thrilling video productions by transmitting up to four feeds from a single unit without breaking your budget.



4K Transmission

EnGo 3x can transmit 4K (3840x2160) 60 live video with stunning picture quality, making it the perfect companion for sports and live event transmissions.



Low Latency

Reliably broadcast video with glass-to-glass latency as low as 0.5 seconds over bonded cellular connections, perfect for real-time transmissions and smoother talkbacks.

Product Specifications

Key Functions

Live	Transmit broadcast-quality live video over IP networks
Recording	Record video for later transfer
Live and Recording	Transmit live while also recording video for later transfer at a higher quality
Record and Auto Transfer	Video is transferred to a Dejero receiver while still recording
File Transfer	Transfer edited video or other files to a Dejero receiver
Wi-Fi Hotspot	Internet access over a single network connection, preserving remaining connections for video
GateWay Mode	Resilient, high-bandwidth internet access over aggregated network connections

Video

Formats	4K (3840x2160) 23.98/24/25/29.97/30/50/59.94/60, 1080p 23.98/24/25/29.97/30/50/59.94/60, 1080i 25/29.97/30, 720p 50/59.94/60, 576i 25, 480i 29.97
Encoding	H.264 AVC and H.265 HEVC, adaptive bitrate
Bitrates	Live bitrate up to 60 Mb/s, Record and Auto Transfer bitrate up to 30 Mb/s
Inputs	12G/3G/HD/SD-SDI, IP (MPEG-TS, RTMP, RTSP)
Output Options	SDI, SMPTE 2110, MPEG-TS, Content Delivery Networks (CDNs), Social Networks, MultiPoint

Audio

Encoding	Live: Opus 48 kHz, 2-, 4-, 8-channel 16-128 kb/s adaptive bitrate, 16-bit audio depth Recording: AAC 48 kHz, stereo or 4-channel
Inputs	Embedded (SDI)

Network Connections

Cellular	4 x 3G/4G/5G
Ethernet	Dual 1 Gb/s port for LAN, WAN, and portable satellite (including BGAN, Ku-band, Ka-band)
Wi-Fi	Dual-band wireless with Wi-Fi 6 (802.11 a/b/g/n/ac/ax), Open WEP, WPA-PSK and WPA2-PSK

Power

Internal Battery	Internal battery provides over 3 hours of run time
External Battery	Easily accessible Gold Mount or V-Mount plates in backpack or use included D-Tap cable
External DC	100-240 VAC adapter, 90W (included)

Physical

Dimensions (H x W x D)	25.1 x 15.6 x 9.8 cm (9.88 x 6.14 x 3.86 inches)
Weight	2.13 kg (4.7 lbs)
Operating Temperature	0° C to +45° C (32° F to 113° F) mounted 0° C to +40° C (32° F to 104° F) in backpack up to 95% RH (non-condensing)
Screen	5" capacitive touchscreen
Interfaces	4 x SDI in (BNC), HDMI out, 2 x RJ45 Ethernet, 2 x USB 3.0, IFB output (3.5mm), Intercom audio (3.5mm), DC in, wired remote
Accessories Included	Backpack with wired remote External battery charging plate for V-Mount or Gold Mount batteries D-Tap power connector cable Audio cables for IFB (XLR and 3.5mm) and Intercom (3.5mm) SDI and HDMI video cables

Key Features

Smart Blending Technology

Aggregate 3G/4G/5G, Wi-Fi, Ethernet, and portable satellite connections

Hybrid Encoding Technology

Hardware/software encoding dynamically adapts in real-time based on the complexity of the video scene being captured and the network throughput

Resilient Wireless Technology

Advanced RF and antenna design with 4 x 4 MIMO architecture for ultra-reliable transmission and reception

Easy to Use

5" capacitive touch screen provides confidence monitoring, status information, and in-field control

Ergonomic Backpack

Includes shoulder-mounted wired remote, sun shade, simplified cable management, and space for optional external battery

Vehicle Antenna Dock

Mount inside a vehicle and connect to external antennas with optional dock

Travel-friendly

Integrated global modems, global roaming connectivity services, field-accessible SIMs, and an internal battery that's aircraft carry-on compliant

Internal and External Battery Options

Over 3 hours of battery life from rechargeable internal battery, plus optional use of external ENG camera batteries for extended runtime

Enhanced Security

Keep your content protected with AES256 encryption, trusted hardware authentication, and a security-hardened Linux OS

IFB and Intercom

One-way IFB over wired or Bluetooth* earpiece, and two-way, full-duplex Intercom voice communication

Return Video

Connect external display to HDMI output to view a low latency feed from the studio

Certifications



* H2 2022 software update

Full specifications available at dejero.com/lengo-3x

Contact us to learn more about EnGo 3x

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