Dejero

EnGo 3

5G mobile transmitter and internet gateway

Unmatched 5G performance allows you to go live and transfer files from anywhere.

Reliable, fast, and easy to use, EnGo 3 can harness the power of 5G networks to offer unmatched connectivity to mobile video professionals. It efficiently encodes and securely transmits live video from the field with superior picture quality. Use the integrated GateWay mode to maximize performance and productivity with resilient, high-bandwidth, wireless internet access offering speeds up to 500 Mbps.

Whether you're reporting breaking news, shooting a scene, transmitting a live event, or broadcasting sports, our patented *Smart Blending Technology™* ensures the EnGo 3 performs in even the most challenging network conditions, such as remote locations.

SBT / Smart Blending Technology   **5G**

Superior RF and Antenna Design

EnGo 3 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.

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.

Fast File Transfers

Have access to wireless broadband internet connectivity in the field. Ideal for fast file transfers and connecting multiple devices with our reliable multipath hotspot.

Enhanced Security

A Trusted Platform Module that authenticates your device combined with AES256 encryption and a security-hardened Linux OS ensures your content is transmitted securely.

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	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 20 Mb/s, Record and Auto Transfer bitrate up to 15 Mb/s
Inputs	12G/3G/HD/SD-SDI, HDMI, 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	2.08 kg (4.6 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	SDI in (BNC), HDMI in, 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
FC CE IC PTCRB

* H2 2022 software update

Full specifications available at dejero.com/engo-3