

Prism Mobile

TERADEK

Prism Mobile is the lightest LTE enabled camera-back video encoder on the market. With a flexible I/O and a compact, low-SWaP design, Prism Mobile easily fits into any workflow. Prism Mobile gives you 4K 10-bit HDR video transmission with integrated LTE network bonding for live coverage from any location. Prism Mobile is designed to seamlessly fit onto the back of your ENG or professional camera or placed directly on a table top. Prism Mobile can encode up to 4Kp60 video with stunning 10-bit 4:2:2 image fidelity paired with Stereo or 5.1 surround sound. The Prism platform supports many common streaming protocols such as MPEGTS, RTSP/RTP, RTMPS, and SRT, and can be connected to Teradek's Core Cloud Platform for even more flexibility.



BONDED ENCODER

VIDEO

Video Inputs	1x 12G/6G/3G/HD/SD-SDI (75 Ω BNC) 1x HDMI 2.0 Type-A receptacle
Video Outputs	1x 12G/6G/3G/HD/SD-SDI (75 Ω BNC)
Supported Resolutions	4K DCI p23.98/24/25/29.97/30/50/59.94/60 4K UHD UHD p23.98/24/25/29.97/30/50/59.94/60 1080p 23.98/24/25/29.97/30/50/59.94/60 1080i 50/59.94/60 1080PsF 23/24/25/29/30 720p 50/59.94/60 576i 480i

VIDEO PROCESSING

Supported Video Bitrate	250 Kbps to 85 Mbps
Video Format Conversion Support	Built in video scaler and deinterlacer
HDR Support	Yes (Rec.2100)
Color Correction	CDL/1024 1D LUT (supports 10-bit color) 33x33x33 3D LUT (supports 10-bit color)
Video Compression/Decompression	H.264, Advanced Video Coding (AVC) ISO MPEG-4 Part 10 / ITU H.264: Baseline, Main, High H.265, High Efficiency Video Coding (HEVC) ISO MPEG-H Part 2 / ITU H.265: Main
Bonding	Support for up to 9 network inputs 4x Cellular phones 2x Internal Node modems 1x External modem 2x Ethernet networks
Recording	Supported File Type MP4, TS wrapper Supported Media SD Card, USB, NFS



BONDED ENCODER

AUDIO

Audio Compression	AAC-LC
Audio Input	Embedded over SDI and HDMI, 3.5mm TRRS Stereo Line Level Analog or Microphone in, adjustable gain
Audio Output	3.5mm TRRS Stereo Headphone output, adjustable gain
Audio Support	Stereo, 5.1 surround sound
Audio Sample Rate	48kHz
Audio Bitrate	32kbps to 512kbps

PROTOCOL SUPPORT

Supported Video Transport Protocols	Secure Reliable Transport (SRT), RTMP/RTMPS, MPEG-TS (UDP, TCP, TCP Server, Multicast), CDNs, RTSP/RTP Teradek Bonding Protocol
Network Protocols	TCP/IP, UDP, HTTP, DHCP, NTP, SSL, IGMP
Remote Management	Teradek Core

PHYSICAL ATTRIBUTES

Dimensions	5.9in. (W) x 3.9in. (D) x 1.3in. (H) [162 x 92 x 35mm]
Weight	23.4oz [664g] without plates; 30.5oz (864g) with plates
Construction	Milled aluminum
Mounting Options	Camera-back, Gold, Gold 26V and V-Lock mounts Can be mounted using the 1/4" 20 mounting holes

INTERFACES

Configuration Interface	Feature-rich Web UI for local device management, configuration, and control, Intuitive iOS configuration app (Prism App), OLED Status Display w/ Nav control buttons, Core for cloud based device management
Cellular	2x Internal Node II modems with dual switchable SIM slots, Supports up to 4 cellular SIM cards
USB Interface Functionality	1x Powered 5-pin circular locking connector with Node II LTE/4G/3G Modem support 1x Powered USB-A with external storage support
Ethernet	2x 10/100/1000 BASE-T Gigabit Ethernet (RJ45)
Wireless	WiFi: 2.4/5GHz 802.11 a/b/g/n/ac/ax MiMo

POWER

Power Input	2-pin circular locking connector, Gold, Gold 26V and V-Lock Battery Plates
Voltage	6-28V DC
Power Consumption	20W Nominal, 36W Max

