

# Prism Mobile 5G/Mk II

# TERADEK

## Prism Mobile 5G/Mk II: 4K H.264/HEVC Encoder for IP Video

Prism Mobile is the lightest 5G and LTE-enabled camera-back video encoder on the market. Choose between the advanced 5G model or the deep value Mk II LTE version. Both systems provide high-performance cellular connectivity in camera-back or desktop form factors. 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 5G or LTE network bonding for live coverage from any location. Prism Mobile can encode up to 4Kp60 video with stunning 10-bit 4:2:2 image fidelity paired with Stereo or 5.1 and 7.1 surround sound.



	PRISM MOBILE 5G	PRISM MOBILE MK II
<b>VIDEO</b>		
Video Inputs	1x 12G/6G/3G/HD/SD-SDI (75 Ω BNC) 1x HDMI 2.0 Type-A receptacle	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)	1x 12G/6G/3G/HD/SD-SDI (75 Ω BNC)
Supported Resolutions	<b>4K DCI</b> p23.98/24/25/29.97/30/50/59.94/60 <b>4K UHD</b> p23.98/24/25/29.97/30/50/59.94/60 <b>1080p</b> 23.98/24/25/29.97/30/50/59.94/60 <b>1080i</b> 50/59.94/60 <b>1080PsF</b> 23/24/25/29/30 <b>720p</b> 50/59.94/60 <b>576i, 480i</b>	<b>4K DCI</b> p23.98/24/25/29.97/30/50/59.94/60 <b>4K UHD</b> p23.98/24/25/29.97/30/50/59.94/60 <b>1080p</b> 23.98/24/25/29.97/30/50/59.94/60 <b>1080i</b> 50/59.94/60 <b>1080PsF</b> 23/24/25/29/30 <b>720p</b> 50/59.94/60 <b>576i, 480i</b>
<b>AUDIO</b>		
Audio Compression	AAC-LC	AAC-LC
Audio Bitrate	32kbps to 512kbps	32kbps to 512kbps
Audio Sample Rate	48kHz	48kHz
Audio Input	Embedded over SDI, 3.5mm TRRS Stereo Line Level Analog or Microphone in, adjustable gain	Embedded over SDI, 3.5mm TRRS Stereo Line Level Analog or Microphone in, adjustable gain
Audio Output	3.5mm Stereo Headphone output	3.5mm Stereo Headphone output
IFB	Analog 3.5mm Line Level, USB-A Headset or Audio Interface (< 1.5A)	Analog 3.5mm Line Level, USB-A Headset or Audio Interface (< 1.5A)
<b>PROTOCOL SUPPORT</b>		
Network Protocols	TCP/IP, UDP, HTTP, DHCP, NTP, SSL, IGMP	TCP/IP, UDP, HTTP, DHCP, NTP, SSL, IGMP
Supported Video Transport Protocols	Teradek Reliable Transport (TRT), Teradek Bonding Protocol, Secure Reliable Transport (SRT), Reliable Internet Stream Transport (RIST), RTMP/RTMPS, MPEG-TS DASH (UDP, TCP, TCP Server, Multicast), RTSP/RTP, HLS Server, Integrated CDNs (YouTube, Facebook, Vimeo), Airmix, WHIP	Teradek Reliable Transport (TRT), Teradek Bonding Protocol, Secure Reliable Transport (SRT), Reliable Internet Stream Transport (RIST), RTMP/RTMPS, MPEG-TS DASH (UDP, TCP, TCP Server, Multicast), RTSP/RTP, HLS Server, Integrated CDNs (YouTube, Facebook, Vimeo), Airmix, WHIP
Remote Management	Teradek Core Cloud, Private SDK	Teradek Core Cloud, Private SDK

## PRISM MOBILE 5G

## PRISM MOBILE MK II

### VIDEO PROCESSING

Video Compression/Decompression	<b>ISO MPEG-4 Part 10:</b> Advanced Video Coding (AVC)/ITU H.264 <b>AVC:</b> Baseline, Main, High <b>ISO MPEG-H Part 2:</b> High Efficiency Video Coding (HEVC)/ITU H.265 <b>HEVC:</b> Main	<b>ISO MPEG-4 Part 10:</b> Advanced Video Coding (AVC)/ITU H.264 <b>AVC:</b> Baseline, Main, High <b>ISO MPEG-H Part 2:</b> High Efficiency Video Coding (HEVC)/ITU H.265 <b>HEVC:</b> Main
Supported Video Bitrate	250 Kbps to 85 Mbps	250 Kbps to 85 Mbps
Video Format Conversion Support	Built in video scaler and deinterlacer	Built in video scaler and deinterlacer
HDR Support	Yes (2020-PQ, 2020-HLG, P3D65-PQ)	Yes (2020-PQ, 2020-HLG, P3D65-PQ)
Color Correction	CDL/1024 1D LUT (supports 10-bit color) 33x33x33 3D LUT (supports 10-bit color)	CDL/1024 1D LUT (supports 10-bit color) 33x33x33 3D LUT (supports 10-bit color)
Bonding	TeraLink	TeraLink
Recording	SD Card - Full size, USB Drive, NFS	SD Card - Full size, USB Drive, NFS
Camera to Cloud	Core Cloud, Frame.io, Sony Ci, Sony C3 Portal, PIX, Moxion, Avid	Core Cloud, Frame.io, Sony Ci, Sony C3 Portal, PIX, Moxion, Avid

### PHYSICAL ATTRIBUTES

Dimensions	5.9"W x 3.9"D x 1.3"H [162 x 92 x 35mm]	5.9"W x 3.9"D x 1.3"H [162 x 92 x 35mm]
Weight	23.4oz [664g] without plates; 30.5oz (864g) with plates	23.4oz [664g] without plates; 30.5oz (864g) with plates
Construction	Milled aluminum	Milled aluminum
Mounting Options	Camera-back, Gold, Gold 26V and V-Lock mounts Can be mounted using the 1/4" 20 mounting holes	Camera-back, Gold, Gold 26V and V-Lock mounts Can be mounted using the 1/4" 20 mounting holes
Additional Modem Mounting	Prism Mobile Node Bracket via 1/4-20 and 2x M3 machine screws.	Prism Mobile Node Bracket via 1/4-20 and 2x M3 machine screws.

### INTERFACES

Configuration Interface	Core Cloud for remote device management, Feature-rich Web UI for local device management, Intuitive iOS configuration app (Prism App), OLED Status Display w/ Nav control buttons,	Core Cloud for remote device management, Feature-rich Web UI for local device management, Intuitive iOS configuration app (Prism App), OLED Status Display w/ Nav control buttons,
Cellular	<b>2x</b> Internal Node 5G SW modems (CBRS supported)	<b>2x</b> Internal Node II LTE Modems (CBRS supported)
USB Interface Functionality	<b>1x</b> Powered LEMO with Node Modem support <b>1x</b> Powered USB-A with external storage support	<b>1x</b> Powered LEMO with Node Modem support <b>1x</b> Powered USB-A with external storage support
Ethernet	<b>2x</b> 10/100/1000 BASE-T Gigabit Ethernet (RJ45)	<b>2x</b> 10/100/1000 BASE-T Gigabit Ethernet (RJ45)
Wireless	<b>WiFi:</b> 2.4/5GHz 802.11 a/b/g/n/ac/ax MIMO - BLE for Network Configuration	<b>WiFi:</b> 2.4/5GHz 802.11 a/b/g/n/ac/ax MIMO - BLE for Network Configuration

### POWER

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

### LICENSABLE FEATURES

Enable Extra Streams	Extra simultaneous destinations	Extra simultaneous destinations
Enable Decoding	Enabled ability to decode to SDI output	Enabled ability to decode to SDI output