

# TERADEK Prism Flex

## Prism Flex: 4K H.264/HEVC Encoder/Decoder for IP Video

With flexible I/O and a compact, low-power design, Prism Flex easily fits into any workflow. Prism Flex is perfect for placement on a table top, camera-top, or wedged between your video switcher and audio mixer. Prism Flex can encode or decode up to 4Kp60 video with stunning 10-bit 4:2:2 image fidelity. The Prism platform supports many common streaming protocols such as MPEG-TS, RTSP/ RTP, RTMPS, and SRT, and can be connected to Teradek's Core Cloud Platform for even more flexibility.



	ENCODER	DECODER
<b>VIDEO</b>		
Video Inputs	2x SD/HD/3G/6G/12G-SDI (75 Ω BNC) 1x HDMI 2.0 Type-A receptacle	N/A
Video Outputs	1x SD/HD/3G/6G/12G-SDI (75 Ω BNC loop out)	2x SD/HD/3G/6G/12G-SDI (75 Ω BNC) 1x HDMI 2.0 Type-A receptacle
Supported Resolutions	4K DCI p23.98/24/25/29.97/30/50/59.94/60 4K 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	4K DCI p23.98/24/25/29.97/30/50/59.94/60 4K 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
<b>VIDEO PROCESSING</b>		
Video Compression	<b>ISO MPEG-4 Part 10:</b> Advanced Video Coding (AVC)/ITU H.264 <b>H.264:</b> Baseline profile, Main profile, High profile <b>ISO MPEG-H Part 2:</b> High Efficiency Video Coding (HEVC)/ITU H.265 <b>HEVC:</b> Main profile	<b>ISO MPEG-4 Part 10:</b> Advanced Video Coding (AVC)/ITU H.264 <b>H.264:</b> Baseline profile, Main profile, High profile <b>ISO MPEG-H Part 2:</b> High Efficiency Video Coding (HEVC)/ITU H.265 <b>HEVC:</b> Main profile
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	Yes
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	Prism App	Prism App
Recording	SD Card - Full size	N/A

	ENCODER	DECODER
<b>AUDIO</b>		
Audio Compression	AAC-LC	AAC-LC
Audio Input	3.5mm Stereo Line Level Analog or Microphone in, adjustable gain	3.5mm Stereo Line Level Analog or Microphone in, adjustable gain
Audio Output	3.5mm Stereo Headphone output	3.5mm Stereo Headphone output
<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	RTMP/RTMPS, MPEG-TS (UDP, TCP, TCP Server, Multicast), CDNs (YouTube, Facebook, Vimeo), Secure Reliable Transport (SRT), RTSP/RTP, and Airmix	RTSP, MPEG-TS (UDP, TCP, TCP Pull, and Multicast), and Secure Reliable Transport (SRT)
Remote	Teradek Core	Teradek Core
<b>PHYSICAL ATTRIBUTES</b>		
Dimensions	6.25"W x 3.6"D x 1.4"H [162 x 92 x 35mm]	6.25"W x 3.6"D x 1.4"H [162 x 92 x 35mm]
Weight	11.6oz [328.9g]	11.6oz [328.9g]
Construction	Milled aluminum	Milled aluminum
Mountability	Can be mounted horizontally or vertically with 1/4" 20 mounting holes	Can be mounted horizontally or vertically with 1/4" 20 mounting holes
<b>INTERFACES</b>		
Configuration Interface	Feature-rich Web UI for configuration and control OLED Status Display w/Nav control buttons	Feature-rich Web UI for configuration and control OLED Status Display w/Nav control buttons
USB Interface Functionality	<b>2x</b> Powered USB-C host ports with USB 4G/LTE/5G modem support	<b>2x</b> Powered USB-C host ports with USB 4G/LTE/5G modem 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	<b>WiFi:</b> 2.4/5GHz 802.11 a/b/g/n/ac/ax MiMo
<b>POWER</b>		
Power Input	2-pin circular locking connector	2-pin circular locking connector
Voltage	6-28V DC	6-28V DC
Nominal Power Consumption	18W	18W