# Prism Flex Mk II

**TERADEK**

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

With a flexible I/O and compact, low-SWaP design, Prism Flex Mk II easily fits into any workflow. Flex Mk II is perfect for placement on a table top, camera-top, or wedged between your video switcher and audio mixer. Flex Mk II 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 TRT, SRT, MPEG-TS, RTSP/ RTP and RTMP(S), and can be connected to Teradek's Core Cloud platform for even more flexibility.

|  | **ENCODER** | **DECODER** |
|---|---|---|
| **VIDEO** | | |
| Video Inputs | **1x** 12G/6G/3G/HD/SD-SDI (75 Ω BNC) <br> **1x** HDMI 2.0 Type-A receptacle | N/A |
| Video Outputs | **1x** 12G/6G/3G/HD/SD-SDI (75 Ω BNC) | **2x** 12G/6G/3G/HD/SD-SDI (75 Ω BNC) |
| Supported Modes | Single Encode, Bi-directional Encode/Decode (additional license) | Single Decode, De-bonding Decode or Restream (additional licenses) |
| Supported Resolutions | **4K DCI** p23.98/24/25/29.97/30/59.94 <br> **4K UHD** p23.98/24/25/29.97/30/50/59.94/60 <br> **1080p** 23.98/24/25/29.97/30/50/59.94/60 <br> **1080i** 50/59.94/60 <br> **1080PsF** 23/24/25/29/30 <br> **720p** 50/59.94/60 <br> **576i** <br> **480i** | **4K DCI** p23.98/24/25/29.97/30/59.94 <br> **4K UHD** p23.98/24/25/29.97/30/50/59.94/60 <br> **1080p** 23.98/24/25/29.97/30/50/59.94/60 <br> **1080i** 50/59.94/60 <br> **1080PsF** 23/24/25/29/30 <br> **720p** 50/59.94/60 <br> **576i** <br> **480i** |
| **AUDIO** | | |
| Audio Compression | AAC-LC | AAC-LC |
| Audio Bitrate | 32kbps to 512kbps | 32kbps to 512kbps |
| Audio Sample Rate | 48kHz | 48kHz |
| Audio Input | Embedded over SDI and HDMI, 3.5mm TRRS Stereo Line Level Analog or Microphone in, adjustable gain | N/A (see IFB) |
| Audio Output | 3.5mm TRRS Stereo Headphone output, adjustable gain | Embedded over SDI and HDMI, 3.5mm Stereo Headphone (TRRS) 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) |
| **LICENSABLE FEATURES** | | |
| Enable Extra Streams | Extra simultaneous destinations | N/A |
| Enable Decoding | Enabled ability to decode to SDI output | N/A |
| De-Bonding Decoder | N/A | Debond Teradek Bonding Protocol or TRT and re-transmit via Teradek Bonding Protocol: TDS, SRT, RTMP, MPEG-TS, RTSP, HLS |

| | ENCODER | DECODER |
|---|---|---|
| **VIDEO PROCESSING** | | |
| Video Compression/ Decompression | **ISO MPEG-4 Part 10:** Advanced Video Coding (AVC)/ ITU H.264<br>**AVC:** Baseline, Main, High<br>**ISO MPEG-H Part 2:** High Efficiency Video Coding (HEVC)/ITU H.265<br>**HEVC:** Main | **ISO MPEG-4 Part 10:** Advanced Video Coding (AVC)/ ITU H.264<br>**AVC:** Baseline, Main, High<br>**ISO MPEG-H Part 2:** High Efficiency Video Coding (HEVC)/ITU H.265<br>**HEVC:** Main |
| 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 |
| Number of Encoded/ Decoded Streams | Up to one 4KDCI p60 4:2:2 10bit | Up to one 4KDCI p60 4:2:2 10bit (without additional license) |
| 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)<br>33x33x33 3D LUT (supports 10-bit color) | CDL/1024 1D LUT (supports 10-bit color)<br>33x33x33 3D LUT (supports 10-bit color) |
| Bonding | TeraLink | TeraLink |
| Recording | SD Card - Full size, USB Drive, NFS | N/A |
| Camera to Cloud | Core Cloud, Frame.io, Sony Ci, Sony C3 Portal, PIX, Moxion, Avid | N/A |
| **PROTOCOL SUPPORT** | | |
| 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), Secure Reliable Transport (SRT), RTMP/RTMPS, MPEG-TS, DASH (UDP, TCP, TCP Server, Multicast), RTSP/RTP, RIST (Reliable Internet Stream Transport, HLS Client, Integrated CDNs (YouTube, Facebook, Vimeo), WHIP |
| Remote Management | Teradek Core Cloud, Private SDK | Teradek Core Cloud, Private SDK |
| **PHYSICAL ATTRIBUTES** | | |
| 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 |
| Mounting Options | Desktop, Four 1/4" 20 threaded mounting holes | Desktop, Four 1/4" 20 threaded mounting holes |
| **INTERFACES** | | |
| Configuration Interface | Feature-rich Web UI for local device management, configuration, and control, OLED Status Display w/Nav Control Buttons | Feature-rich Web UI for local device management, configuration, and control, OLED Status Display w/ Nav Control Buttons |
| USB Interface Functionality | **1x** Powered 5-Pin Locking Connector with Node Modem support<br>**1x** Powered USB-A with Node and external storage support | **1x** Powered 5-Pin Locking Connector with Node Modem support<br>**1x** Powered USB-A with Node and external storage support |
| Ethernet | **2x** 10/100/1000 BASE-T Gigabit Ethernet (RJ45) | **2x** 10/100/1000 BASE-T Gigabit Ethernet (RJ45) |
| Wireless | **WiFi:** 2.4/5GHz 802.11 a/b/g/n/ac/ax MIMO - BLE for Network Configuration | **WiFi:** 2.4/5GHz 802.11 a/b/g/n/ac/ax MIMO - BLE for Network Configuration |
| **POWER** | | |
| Power Input | 2-pin circular locking connector | 2-pin circular locking connector |
| Voltage | 6-28V DC | 6-28V DC |
| Nominal Power Consumption | 18W | 18W |

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