

TERADEK Bolt 4K LT

Bolt 4K LT MAX: Wireless 4K HDR Video System

Bolt 4K LT MAX is the newest entry-level wireless video system to be introduced to the Bolt 4K LT family. Bolt 4K LT MAX devices are fully compatible with all other Bolt 4K devices, are capable of transmitting 10-bit, 4:2:2 HDR video at a range of up to 5000 feet line-of-sight over the unlicensed 5GHz band, and can multicast to 6 receivers simultaneously.

For HDR workflows, Bolt 4K LT supports the HDR-10, PQ, and HLG standards and can transport extended camera metadata, timecode, and record triggers over the wireless link.



BOLT 4K LT MAX - TX

BOLT 4K LT MAX - RX

VIDEO

Video Inputs	3G-SDI SMPTE 424M standard/75 Ω (BNC x 1), 1x HDMI 1.4b Type-A receptacle	N/A
Video Outputs	3G-SDI SMPTE 424M standard/75 Ω (BNC x 1)	3G-SDI SMPTE 424M standard/75 Ω (BNC x 1), 1x HDMI 1.4b Type-A receptacle
SDI Ancillary Data Support	Supports transmitting metadata, timecode, and start/stop flags from most camera manufacturers. Please refer to: https://support.teradek.com/hc/en-us/articles/217446087	
Color Sampling	SDI: YCbCr 4:2:2 10-Bit/HDMI: RGB 4:4:4, 8-bit	SDI: YCbCr 4:2:2 10-Bit/HDMI: RGB 4:4:4, 8-bit
Delay (TX to RX)	<0.001sec (without format conversions)	<0.001sec (without format conversions)
Supported Resolutions	4Kp23.98/24/25/29.97/30 (HDMI only) 1080p23.98/24/25/29.97/30/50/59.94/60 1080psf23.98/24/25/29.97/30 1080i50/59.94/60 720p50/59.94/60 480p50 576p59.94/60 480i(NTSC)/576i(PAL)	4Kp23.98/24/25/29.97/30 (HDMI only) 1080p23.98/24/25/29.97/30/50/59.94/60 1080psf23.98/24/25/29.97/30 1080i50/59.94/60 720p50/59.94/60 480p50 576p59.94/60 480i(NTSC)/576i(PAL)
Input Cross Conversion	Yes, HDMI to SDI (4Kp30 HDMI input is scaled and looped out as 1080p30 on SDI loopout)	N/A
Output Video Scaling	N/A	No (4Kp30 signals are output on HDMI, but scaled to 1080p30 and output over SDI. 4Kp60 signals received from Bolt 4K XT devices are scaled to 1080p60 and output over both HDMI and SDI outputs)

VIDEO PROCESSING

Video Compression	Visually lossless	N/A
Color Correction	None	None
Test Pattern Generator	N/A	Yes
Spectrum Analyzer	N/A	Yes

BOLT 4K LT - TX**BOLT 4K LT - RX****AUDIO**

Audio Compression	48kHz 24-bit PCM	48kHz 24-bit PCM
Audio Input	Embedded SDI/HDMI Audio Input (2 channel)	N/A
Audio Output	N/A	Embedded SDI/HDMI Audio Input (2 channel)

PHYSICAL ATTRIBUTES

Dimensions	2.4" x 4.1" x 1.3" (60 x 103 x 33mm)	4.8" x 3.7" x 1" (122 x 94 x 27mm)
Weight	7.3oz (206g)	10.3oz (292g)
Construction	Milled aluminum (chassis) and regulation-compliant PCB	Milled aluminum (chassis) and regulation-compliant PCB

INTERFACES

Configuration Interface	OSD with Menu, Joystick Navigation	OSD Screen with Menu, Joystick Navigation
Switches	On/Off Switch	On/Off Switch
Desktop App	Bolt Manager application for OSX & Windows	Bolt Manager application for OSX & Windows
Mobile App	Bolt App	Bolt App
USB Interface	Upgrade via Micro-USB	Upgrade via Micro-USB
Bluetooth Compatibility	Yes	Yes

WIRELESS

Wireless	DFS Frequencies: 5.270 ~ 5.670 GHz Non-DFS Frequencies: 5.190 ~ 5.230 GHz and 5.755 ~ 5.795 GHz	DFS Frequencies: 5.270 ~ 5.670 GHz Non-DFS Frequencies: 5.190 ~ 5.230 GHz and 5.755 ~ 5.795 GHz
Bluetooth	2.4 GHz	2.4 GHz
RF Channel Selection	Auto, Manual	Auto, Manual
Encryption	AES-256, RSA-1024 key exchange	AES-256, RSA-1024 key exchange
RF power	19 dbm EIRP (2x external 2dBi antennas; <80mW transmit power)	17 dbm EIRP (1x external 2dBi antenna; <51mW transmit power)
Antennas	2x External 2dBi antennas (included)	5x External 2dBi antennas (included)
Range	Up to 3000 ft line of sight (5000 ft with optional Bolt 4K Array Antenna)	Up to 3000 ft line of sight (5000 ft with optional Bolt 4K Array Antenna)
Multicast	Can connect one transmitter to up to 6 receivers	Can connect one transmitter to up to 6 receivers
Noise Rejection	Can coexist with Wi-Fi and 5GHz cordless phones, and can operate up to 6 sets in same location	Can coexist with Wi-Fi and 5GHz cordless phones, and can operate up to 6 sets in same location
Interoperability	Can transmit wireless video to all ranges of Bolt 4K XT and Bolt 4K LT receivers (limited by shortest range device)	Can receive wireless video from all ranges of Bolt 4K XT and Bolt 4K LT transmitters (limited by shortest range device)

POWER

Power Input	2-Pin Circular locking connector 6-28 VDC	2-Pin Circular locking connector 6-28 VDC
Battery	None, optional Sony/Canon dual battery plate	None, optional Gold or V mount battery plate
Nominal Power Consumption	9 Watts	11 Watts
Operating Temperature	0~40 deg-C	0~40 deg-C

GENERAL

Mountability	Multiple mounting options with M3 and 1/4-20" holes	Multiple mounting options with 3/8"x16 and 1/4-20" holes
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