



Beam TX and RX

Product Specification Sheet

Beam is a Wi-Fi equipped H.264 encoder for applications demanding high quality, low-latency video transmission. Beam can transmit to up to 4 decoders over Wi-Fi or an unlimited number on a wired network using multicast. Beam supports SD/HD/3G-SDI video inputs with embedded stereo audio and bidirectional stereo IFB communication. Beam can stream video in RTP and MPEG-TS formats, re-stream from the decoder, and more.



	BEAM TX	BEAM RX
VIDEO		
Video Inputs	SD/HD/3G-SDI (75 Ω BNC)	N/A
Video Outputs	SD/HD/3G-SDI (75 Ω BNC; Loop-out)	SD/HD/3G-SDI (75 Ω BNC)
SDI Compliance	SMPTE 259M BI.656: SDTV Digital Signal/Data Serial Digital Interface SMPTE 292M BT.1120: 1.5Gb/s Signal/Data Serial Digital Interface SMPTE 425M: 3Gb/s Signal/Data Serial Digital Interface SMPTE 299M: 16bit Digital Audio Format for SMPTE 292M SMPTE 352M: Video Payload Identification for Digital Interfaces	
Delay (TX to RX)	90-110 milliseconds	90-110 milliseconds
Supported Resolutions	1080p23.98/24/25/29.97/30/50/59.94/60 1080PsF23.98/24/25/29.97/30 1080i50/59.94/60 720p23.98/24/25/29.97/30/50/59.94/60 576i50 (PAL) 480i59.94 (NTSC)/480i60 (861-D)	1080p23.98/24/25/29.97/30/50/59.94/60 1080PsF23.98/24/25/29.97/30 1080i50/59.94/60 720p23.98/24/25/29.97/30/50/59.94/60 576i50 (PAL) 480i59.94 (NTSC)/480i60 (861-D)
VIDEO PROCESSING		
Video Compression	H.264 baseline profile level 4.2 with de-interlacing	H.264 baseline profile level 4.2 with de-interlacing
Supported Video Bitrate	RTSP Server - Up to 30Mbps MPEG2-TS Server - Up to 15Mbps	RTSP Server - Up to 30Mbps MPEG2-TS Server - Up to 15Mbps
AUDIO		
Audio Compression	48kHz 24-bit PCM	48kHz 24-bit PCM
Audio Input	Main Digital Audio In SDI embedded audio: 48kHz 16-bit stereo linear PCM Talk Back Analog Audio In 8kHz 16-bit stereo linear PCM with mini stereo phone input/output jack	Main Digital Audio In SDI embedded audio: 48kHz 16-bit stereo linear PCM Talk Back Analog Audio In 8kHz 16-bit stereo linear PCM with mini stereo phone input/output jack

AUDIO (CONT.)		
Audio Output	Main Digital Audio Out SDI embedded audio: 48kHz 16-bit stereo linear PCM	Main Digital Audio Out SDI embedded audio: 48 kHz 16-bit stereo linear PCM Main Analog Audio Out 48 kHz 16-bit stereo linear PCM with mini stereo phone output jack
PHYSICAL ATTRIBUTES		
Dimensions	6.7" x 4.1" x 1.1" (170 x 105 x 28 mm)	6.7" x 4.1" x 1.1" (170 x 105 x 28 mm)
Weight	34.92oz (990g)	21.5oz (610g)
Construction	Milled aluminum (chassis), regulation-compliant PCB	Milled aluminum (chassis), regulation-compliant PCB
INTERFACES		
HTTP	Feature-rich web UI for configuration and control	Feature-rich web UI for configuration and control
Configuration Interface	OLED Screen with menu joystick navigation	OLED Screen with menu joystick navigation
Switches	On/Off and reset switch	On/Off and reset switch
External Control	Full duplex RS422 serial port	Full duplex RS422 serial port
NETWORK		
Ethernet	10/100 BASE-TX, RJ-45 jack	10/100 BASE-TX, RJ-45 jack
Wireless	Wi-Fi: IEEE 802.11a/n: OFDM Frequencies U-NII-1 (5.15-5.25 GHz), U-NII-3 (5.725-5.85 GHz)	Wi-Fi: IEEE 802.11a/n: OFDM Frequencies U-NII-1 (5.15-5.25 GHz), U-NII-3 (5.725-5.85 GHz)
USB	Factory Reset IP configuration or firmware upgrade without PC	Factory Reset IP configuration or firmware upgrade without PC
Encryption	802.1x, 802.11i, WPA2, WPA and WEP 64/128 TKIP 128bit AES	802.1x, 802.11i, WPA2, WPA and WEP 64/128 TKIP 128bit AES
RF power	Aggregate Power: 150mW (22dBm), 50mW (17dBm)/antenna Radio Standard - IEEE 802.11a/n: OFDM Antenna - 3T x 3R MIMO, 3 antennas per WiMi6200TW/W1Mi6200RW	Aggregate Power: 150mW (22dBm), 50mW (17dBm)/antenna Radio Standard - IEEE 802.11a/n: OFDM Antenna - 3T x 3R MIMO, 3 antennas per WiMi6200TW/W1Mi6200RW
Range	Up to 2500 ft line of sight	2500 ft
Unicast/Multicast	Multicast Wi-Fi: Up to 4 receivers LAN: No limit on number of receivers	Multicast Wi-Fi: Up to 4 receivers LAN: No limit on number of receivers
Noise Rejection	Coexists with WiFi and 5GHz cordless phones	Coexists with Wi-Fi and 5GHz cordless phones
POWER		
Power Input	7V-17V DC	7V-17V DC
Nominal Power Consumption	12 Watts	12 Watts
Operating Temperature	0~50 °C	0~50 °C



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NEED MORE HELP?

Go to <http://support.teradek.com> - Contains tips, information and all the latest firmware & software updates.