

Specifications

ShareLink Pro 500

TRUE 4K specifications

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
4096 x 2160 at 60 Hz	4:4:4	8 bit
3840 x 2160 at 60 Hz		
4096 x 2160 at 30 Hz		
3840 x 2160 at 30 Hz		
4096 x 2160 at 60 Hz	4:2:0	12 bit
3840 x 2160 at 60 Hz		

Frame rate¹ 24, 25, 30, 50, or 60 fps
 Chroma sampling¹ 4:4:4, 4:2:2, or 4:2:0
 Color bit depth¹ 8, 10, or 12 bits per color
 Signal type HDMI 2.0b, HDCP 2.3
 Max. video data rate 18 Gbps (6 Gbps per color)
 Maximum pixel clock 600 MHz

NOTE: ¹Subject to the maximum data rate limit. Use our calculator at www.extron.com/8KdataRate to determine video parameters supported by this data rate.

NOTE: The specifications above apply only to pass-through mode.

Software and control options

Software ShareLink™ Pro for Windows®
 ShareLink™ Pro for macOS®
 Operating systems Windows 10
 macOS 10.14 - 11

Supported formats

NOTE: The following formats apply only to the Share Image or Video feature. These formats may include video and audio codecs that are not supported.

Video file formats 264, AVI, M2T, M2TS, M4V, MKV, MOV, MP4, MPG, SDP, TS
 Image file formats BMP, JPG, PNG, TIFF

Supported codecs

NOTE: The following codecs apply only to the Mirror Screen feature.

Video codecs VP8
 Audio codecs OPUS

NOTE: The following codecs apply only to the Share Image or Video feature.

Video codecs MPEG-2, MPEG4/XviD (Simple Profile), H.264 (Baseline, Main, High, Stereo SEI Profile), VC1 (Simple, Main, Advanced Profile), WEBM VP8, MJPEG
 Audio codecs AAC-LC (MPEG-2 part 7, MPEG-4 part 3, sub part 4 and part 14, MP4 mono or stereo audio, max 384 kbps)
 PCM mono or stereo 16 kHz to 96 kHz, 16-bit to 32-bit
 Image codecs BMP, JPG, PNG, TIFF

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Mobile apps and features

Software	ShareLink Pro for Android™ ShareLink Pro for iOS
Operating systems	Android 9 and later Apple® iOS 12 and later

Supported formats

NOTE: The following formats apply only to the Share Image or Video feature. These formats may include video and audio codecs that are not supported.

Video file formats	264, AVI, M2T, M2TS, M4V, MKV, MOV, MP4, MPG, SDP, TS
Image file formats	BMP, JPG, PNG, TIFF

Supported codecs

NOTE: The following codecs apply only to the Share Image or Video feature.

Video codecs.....	Android and iOS: MPEG-2, MPEG4/XviD (Simple Profile), H.264 (Baseline, Main, High, Stereo SEI Profile), VC1 (Simple, Main, Advanced Profile), WEBM VP8, MJPEG Android (Mirror Screen feature only): VP8
Audio codecs	AAC-LC (MPEG-2 part 7, MPEG-4 part 3, sub part 4 and part 14, MP4 mono or stereo audio, max 384 kbps) PCM mono or stereo 16 kHz to 96 kHz, 16-bit to 32-bit
Image codecs.....	BMP, JPG, PNG, TIFF
Apple screen mirroring	
Operating systems	Apple iOS 9.3 and later, Apple macOS 10.11 and later
Miracast	
Operating systems	Windows 10 version 1903 or later

Video input

Number/signal type.....	1 HDMI digital video
Connectors.....	1 female HDMI type A
Horizontal frequency	15 kHz to 100 kHz
Vertical frequency.....	24 Hz to 75 Hz
Resolution range (Window mode)...	640x480 @ 60 Hz to 1920x1200 @ 60 Hz (includes 480p, 576p, 720p, 1080p)
Resolution range (Pass-through mode)	640x480 @ 60 Hz to 4096x2160 @ 60 Hz (includes 480i, 480p, 576i, 576p, 720i, 720p, 1080i, 1080p, 2K, 4K)
Standards	DVI 1.0, HDMI 2.0, HDCP 2.3

NOTE: HDCP content is passed through if the display is authenticated. If not authenticated, the video output is green or black (configurable).

Video processing — HDMI window mode

Maximum data rate	6.75 Gbps (2.25 Gbps per color)
Maximum pixel clock	225 MHz
Frame rates	24, 25, 30, 50, or 60 fps
Chroma subsampling.....	4:4:4, 4:2:2, or 4:2:0
Color bit depth.....	8, 10, 12 or 16 bits per color
Resolution range	1920 x 1200 @ 60 Hz or 1080p @ 60 Hz
Formats	RGB and YCbCr digital video

Video output

Number/signal type	1 HDMI output
Connectors	1 female HDMI type A
Peripheral device power	250mA
Horizontal frequency	15 kHz to 100 kHz
Vertical frequencies (Window mode).....	23.98 Hz, 24 Hz, 25 Hz, 29.97 Hz, 30 Hz, 50 Hz, 59.94 Hz, 60 Hz

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Vertical frequencies (Pass-through mode)	24 Hz to 75 Hz
Output resolutions (Window mode).....	640x480, 800x600, 1024x768, 1280x720, 1280x724, 1366x768, 1600x1200, 1920x1200, 480p, 576p, 720p, 1080p
Output resolutions (Pass-through mode)	640x480, 800x600, 1024x768, 1280x720, 1280x724, 1366x768, 1600x1200, 1920x1200, 3840x2160, 4096x2160 (up to 60 Hz), 480i, 480p, 576i, 576p, 720i, 720p, 1080i, 1080p, 2K, 4K @ 60 Hz
Standards	DVI 1.0, HDMI 2.0, HDCP 2.3

NOTE: Appropriate HDMI to DVI-D cables or adapters are required for DVI signal output.

Audio input

Number/signal type	
HDMI input	1 embedded digital audio from HDMI (stereo)
Decoder input.....	1 embedded digital audio from decoder (stereo)
Connectors	1 female HDMI type A

Audio processing

Gain	-6 dB unbalanced, 0 dB balanced
Frequency response	20 Hz to 20 kHz, ± 0.1 dB
THD + Noise	<0.02%, 20 Hz to 20 kHz at maximum output level (unweighted)
S/N	>100 dB, at maximum balanced output (unweighted)
Stereo channel separation.....	>90 dB @ 1 kHz
Crosstalk	<-100 dB, at 20 Hz to 20 kHz, fully loaded
Volume control	-100 dB to 0 dB (control 0-100 in 1 dB steps, default: -30 dB)

Audio output – digital

Number/signal type	1 stereo, HDMI (embedded)
Connectors	1 female HDMI type A
Bit depths	16-bit or 24-bit
Sampling rate.....	48 kHz

Audio output – analog

Number/signal type	1 analog stereo, balanced/unbalanced (variable)
Connectors	(1) 3.5 mm captive screw connector, 5-pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Nominal level.....	+4 dBu
Gain error	± 0.1 dB channel to channel
Maximum level (Hi-Z)	>+21 dBu, balanced; >+15 dBu, unbalanced

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Ethernet control

Network interface controllers (NICs).....	1
Connector.....	1 female RJ-45 connector
Data rate	10/100/1000Base-T, half/full duplex with Auto-detect
Protocols	DHCP, DNS, HTTP, HTTPS, ICMP, IEEE 802.1X, NTP, SFTP, SNMP, SSH, TCP/IP, UDP/IP, SMB v1, SMB v2, SMB v3
Default settings – LAN.....	DHCP = Off Default static IP settings: Link speed = Auto-detected Duplex level = Auto-detected IP address = 192.168.254.254 Subnet mask = 255.255.255.0 Gateway = 0.0.0.0 DNS: 0.0.0.0

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Configuration

USB configuration port..... For future expansion

Communication – USB port

Number/signal type..... 1 USB 3.1 Gen 1
Connector..... 1 female USB 3.1 Gen 1 type A, front panel
USB standards USB 3.1 Gen 1 (USB 3.0 – 5 Gbps), USB 2.0, USB 1.1, USB 1.0 compatible
Maximum current source 900 mA
Maximum built-in USB HUBs 0
Minimum built-in USB HUBs 0
Optional built-in USB HUBs 0

General

Power input 12 VDC from external power supply (sold separately)
or
Power over Ethernet Plus (PoE+ IEEE 802.3at)

Power Consumption – Power over Ethernet (PoE+)
Device 19.7 watts
Device and power supply 24.5 watts

Power Consumption – 12 VDC Power Supply
Device 19.3 watts
Device and power supply 20.7 watts

Power over Ethernet (PoE) Complies with 802.3at (PoE+), class 4 (type 2)

Temperature/humidity Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating: +32 to +104 °F (0 to +40 °C) / 10% to 90%, noncondensing

Cooling Fan (air flows top to sides); vents on sides

Thermal dissipation – Power over Ethernet (PoE+)
Device 50.7 BTU/Hr
Device and power supply 67.1 BTU/Hr

Thermal dissipation – 12 VDC Power Supply
Device 49.4 BTU/Hr
Device and power supply 54.1 BTU/Hr

Mounting
Furniture mount Yes, with optional under-desk or wall mounting kit (MBU 125)
Rack mount..... Yes, with optional rack shelf kit
Back-of-rack mountable with optional back-of-rack mounting kit

Enclosure type Metal

Enclosure dimensions 1.0" H x 8.75" W x 8.0" D (1" high, half rack wide, 8" deep)
(2.54 cm H x 22.2 cm W x 20.3 cm D)
(Depth excludes connectors)

Product weight 1.8 lbs (0.8 kg)

Vibration ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance CE, c-UL, UL, C-tick, FCC Class A, ICES, VCCI
Complies with appropriate requirements of RoHS and WEEE

Warranty 3 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

NOTE: Shipping dimensions and weights are available at www.extron.com.