

## Legaltek LXFUSION (LXF) Technical Specifications

Video	
<b>Video/Image Capture</b>	<p><u>Image Sensor</u> Sony Exmor stacked RCMOS: 4240 x 2832 12.2 MP</p> <p><u>Lens Compliment</u> Wide Capture: Sony 2.3mm aspheric corrected G optical glass</p> <p><u>Progressive</u> 4096x2160 @ 30 Frames per second 1920x1080 @ 30 Frames per second 1280x720 @ 30Frames per second</p> <p><u>Single Image</u> (3480 x 2160) Maximum resolution</p>
<b>Features</b>	Laser Autofocus, dual LED

Frame Watermark/Synchronization	
<b>Frame Synchronization</b>	The Legaltek LXF contains frame synchronization circuitry designed to compensate for disruptions of the input signal.
<b>Time/Date Overlay</b>	Hours/Minutes/Seconds Day/Month/Year ON/OFF Switchable

H.264/MPEG-4 Part 10 (AVC) Video Encoder	
<b>Resolutions</b>	<p><u>Progressive</u> 4096x2160 @ 30 Frames per second 1920x1080 @ 30 Frames per second 1280x720 @ 30 Frames per second</p> <p><u>Single Image</u> (3840 x 2160) Maximum</p>
<b>Bit Rates Ranges</b>	Single Encoder - Recording mode: <10.2 Mbps @ 1920 x 1080 Single Encoder - Recording mode: <8.8 Mbps @ 1280 x 720
<b>Encode Frame Rates</b>	Encode frame rate: Maximum of 1080p @ 30 Frames per second
<b>Encoding Profiles</b>	Baseline, Main and High
<b>Scaler</b>	High Quality multi-tap 10 bit Down Scaler and De-Interlacer Available to both file transfer and recording operations

Memory	
<b>Installed Memory</b>	128GB

Recording File Format	
File Type	Industry Standard H.264 MP4 files with embedded AAC audio
File Size	Maximum file size of 4GB (irrespective of storage type used). File splitting feature allows a user to record continuously for long periods by defining file segment sizes.
Recording Length (Without File Transfer)	> 5.5 Hr. @ 1080P Record Resolution > 7 Hr @ 720P Record Resolution

MPEG-4 AAC Audio Encoder	
Standard	AAC-LC
Sample Frequency	96 kHz
Bit Rates	Range from 32 kbps to 320 kbps
Active Noise Cancellation	-92.2dB
Crosstalk	-90.9dB

Microphones and Audio Mixer Processor	
Microphones: Camera-Internal	Three internal with active noise cancellation
Microphone Table-Conference (Optional: All LXF Kits)	LXFM Electret Condenser: Omnidirectional-Surface Mount Frequency response: 35-16kHz (-3dB) Sensitivity: -42dB /-3dB / 0dB=1V/Pa, 1kHz Output Impedance: 600 ohms Connector: Four Section 3.5mm Includes: 4 meter shielded extension cable
Microphones (LXF M-Series)	LX LV4-O XLR Phantom Power Lavalier (Omnidirectional) LX LV4-C XLR Phantom Power Lavalier Cardioid (Directional) LX Cardioid Condenser Boundary (Table-top) Frequency response: 35-18kHz (-3dB) Sensitivity: -38dB /-3dB / 0dB=1V/Pa, 1kHz Output Impedance: 600ohms Power Requirement: 48V Phantom Power Signal-to-Noise Ratio: 78 dB Connector: XLR Cord length: Lavalier: 6' Cardioid Condenser Boundary: 25' (Field kit includes four 25' balanced XLR Extensions)
Audio Mixer/Processor (LXF M-Series)	LXAFM Multi-Channel Field Mixer/Audio Processor Input Connectors: 4 female XLR Input/Output Impedance; 600 ohms Low Cut: -3dB @ 100 Hz Signal-to-noise ratio: >112dB THD: 0.007% typ. @ 1kHz <u>Audio Output</u> Balanced: Microphone Level Output Connectors: 2 male XLR Headphone/Unbalanced Analog Output: 1 ¼" TRS. 1 1/8" 3.5mm Headphone Extension Cable: 3.05m <u>Power Requirement</u> 2 X 9V Battery 12V AC Mains Adapter

LX HD File Transporter	
<b>Controls</b>	These buttons are available at all times no matter where you navigate in the UI
<b>Status Page</b>	Provides relevant operational information concerning Status of the Legaltek HD File Transporter unit at that time including; Device Input video detection and Serial Number, Status and Progress of Streaming operation, Drives Connected, Error conditions, etc.
<b>Control Page</b>	Multiple Legaltek LXF devices can be connected to allow for synchronized streaming operations across multiple units via a single interface.
<b>Settings</b>	Configuration of File Transfer parameters set within this page. Application settings include Target Transfer Directory and Number of Parallel Transfers; Monitor Directory and Output Directory Search.
<b>Device Database</b>	Device Name, Online Status, Viewer Log, Edit and Delete
<b>Evidence Import and Processing</b>	Directory Monitor: Name, Processing Stage and Completed File Listing Monitor and Output Directory Settings
<b>Administrative tools</b>	Application Settings, Software Activation/Deactivation

File Collection/Transfer	
<b>File Collection</b>	
<b>Supported Video Output</b>	<u>Progressive</u> 4096x2160 @ 30 Frames per second 1920x1080 @ 30 Frames per second 1280x720 @ 30 Frames per second <u>Compliant with SMPTE 259M/292M/424M (Level A) / 425M</u>
<b>Direct (Hardwire)</b>	
<b>Connection</b>	USB 3.0
<b>Transfer Speed</b>	Up to 480 Mbps (32GB file < 60 sec.)

<b>Specifications</b>	
<b>Physical Interface</b>	AMOLED Touchscreen (Corning Gorilla Glass 4, oleophobic coating)
<b>Processor</b>	
<b>Chip</b>	Snapdragon 821 (2 x 2.15 GHz)
<b>Specifications</b>	Cores: 4 Process: 14nm Clock Speed: 384 MHz-1.82 GHz CPU 0-3: 460 MHz CPU 4-5: 633 MHz CPU Load: <60% Typical GPU Renderer: Adreno™
<b>Battery</b>	
<b>Internal</b>	LI-Po 2700mAh
<b>External</b>	Li-Po 20100mAh (>24Hr system operation)
<b>Physical</b>	
<b>Dimensions</b>	Recorder: Height (3.25") (8.3 cm), Width (6.0") (15.2cm), Depth (.7") (1.7cm) System w/Case: Height (10.62") (27cm), Width (9.68") (24.6 cm) Depth (4.87") (12.4cm)
<b>Weight</b>	Recorder: 1.2 lbs, .51 kg System: 8.6 lbs, 1.9 kg
<b>Operating conditions</b>	IP67-32 to 104 deg. F (0 to 40 deg. C), 20 to 80% relative humidity (non-condensing)
<b>Power</b>	Input: 5Vdc 3000ma Connector Type 'C' USB Total Power Consumption: 10 watts (max)
<b>Power Supply</b>	Line Voltage: 100-240 VAC Frequency: 50-60 Hz Input: External AC/DC adapter
<b>Transport and Storage</b>	Max Operating Altitude: 3000 meters Max Transport altitude: 12,000 meters Storage Humidity 5 to 95% relative humidity (non-condensing)
<b>Regulatory</b>	EMI: FCC Class A, CE Mark Class A, ACMA C-Tick Mark, VCCI Power-supply Safety: UL/CUL(UL60950-1), TUV-GS(EN60950-1), T-LICENSE (BS EN60950-1), CCC(GB4943.1-2011), PSE(J60950), SAA(AS/NZS60950-1), KC-MARK(K60950), S-MARK(IEC60950-1) RoHS Directive 2002/95/EC
<b>Warranty</b>	1 year: Parts/labor; No charge online and telephone support

## LEGALTEK<sup>HD</sup>

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