Legaltek LXFUSION (LXF) Technical Specifications

Video/Image Capture	Image Sensor Sony Exmor stacked RCMOS: 4240 x 2832 12.2 MP Lens Compliment Wide Capture: Sony 2.3mm aspheric corrected G optical glass Progressive 1920x1080 @ 30 Frames per second 1280x720 @ 30Frames per second Single Image (3840 x 2160) Maximum resolution
Features	Laser Autofocus, dual LED

Frame Watermark/Synchronization

Frame Synchronization	The Legaltek LXF contains frame synchronization circuitry designed to compensate for disruptions of the input signal. Streaming and recording operations will proceed cleanly with repeated or dropped frames.

H.264/MPEG-4 Part 10 (AVC) Video Encoder

Resolutions	<u>Progressive</u> 1920x1080 @ 30 Frames per second 1280x720 @ 30 Frames per second <u>Single Image</u> (3840 x 2160)
Bit Rates Ranges	Single Encoder - Recording mode: 10 Mbps @ 1920 x 1080 Single Encoder - Recording mode: 8 Mbps @ 1280 x 720
Encode Frame Rates	Encode frame rate: Maximum of 1080p @ 30 Frames per second
Encoding Profiles	Baseline, Main and High
Scaler	High Quality multi-tap 10 bit Down Scaler and De-Interlacer Available to both file transfer and recording operations

Memory

Installed Memory	32GB, 2Gb RAM

Recording File Format

File Type	Industry Standard 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 when digitized from an analog source
Bit Rates	Range from 32 kbps to 320 kbps
Active Noise Cancellation	-92.2dB
Crosstalk	-90.9dB

Audio Input: Microphone (Camera)	LXFM Electret Condenser: Omnidirectional Frequency response: 35-16kHz (-3dB) Sensitivity: -42dB /-3dB / 0dB=1V/Pa, 1kHz Output Impedance: 600 ohms Connector: 1/8" Includes: Lapel clip and windscreen
Audio Input: Microphones (Accessory)	LX LV4-O XLR Phantom Power Lavalier (Omnidirectional) LX LV4-C XLR Phantom Power Cardioid (Directional) 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: 6' (Field kit included 25' balanced XLR cable; 50' available) Includes: Lapel clip and windscreen
Audio Mixer/Processor (Accessory)	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 Audio Output Balanced: (2) microphone Output Connectors: 2 male XLR Headphone/Unbalanced Analog Output: 1 ¼" TRS. 1 1/8" 3.5mm

Controls	These buttons are available at all times no matter where you navigate in the UI
Status Page	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.
Control Page	Multiple Legaltek LXF devices can be connected via WiFi topology to allow for synchronized streaming operations across multiple units via a single interface.
Settings	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.
Device Database	Device Name, IP Address, Online Status, Viewer Log, Edit and Delete
Evidence Import and Processing	Directory Monitor: Name, Processing Stage and Completed File Listing Monitor and Output Directory Settings
Administrative tools	Device Naming, IP configuration, Date/Time settings and a variety of other tasks performed via this page.
Additional Tools	Legaltek provides PC or Mac based utilities to help detect the Legaltek File Transporter Device on a particular Network (DHCP server required), to update Legaltek LXF devices with latest firmware and to reboot the devices remotely.

File Collection/Transfer

File Collection	
Supported Video Output	<u>Progressive</u> 1920x1080 @ 30 Frames per second 1280x720 @ 30 Frames per second <u>Compliant with SMPTE 259M/292M/424M (Level A) / 425M</u>
Router (Wireless) optional	
WLAN	2.4GHz/5GHz 802.11a/b/g/n/ac
Wireless Transfer Speed	2.4GHz >450Mbps (32GB file < 60 sec.) 5GHz >1300Mbps (simultaneous) (32GB file < 30 sec.)
Security	WEP, WPA, WPA2, WPA Mixed, WPS
Amplifiers	3 x 2.4GHz Amplifiers 3 x 5GHz Amplifiers 6 x Low Noise Amplifiers
Antennas	3 x Detachable High Gain Dual Band Antennas
Ports	1 x RJ-45 10/100/1000M (WAN) 4 x RJ-45 10/100/1000M (LAN) 1 x USB 2.0 Port
Direct (Hardwire)	
Connection	USB 3.0
Transfer Speed	Up to 480 Mbps (32GB file < 60 sec.)

Specifications

User Interface

Physical Interface	IPS LCD 5.2" Capacitive Touchcreen (Corning Gorilla Glass 3, oleophobic coating

Processor

Chip	Snapdragon 808 1.82 GHz
Specifications	Cores: 6 Process: 20nm Clock Speed: 384 MHz-1.82 GHz CPU 0-3: 460 MHz CPU 4-5: 633 MHz CPU Load: <60% Typical GPU Renderer: Adreno ™

Battery

Internal	LI-Po 2700mAh
External	Li-Po 10000mAh (>20Hr system operation)

Physical

Dimensions	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)
Weight	Recorder: 1.2 lbs, .51 kg System: 4.6 lbs, 1.9 kg
Operating conditions	32 to 104 deg. F (0 to 40 deg. C), 20 to 80% relative humidity (non-condensing)
Power	Input: 5Vdc 3000ma Connector Type 'C' USB Total Power Consumption:10 watts (max)
Power Supply	Line Voltage: 100-240 VAC Frequency: 50-60 Hz Input: External AC/DC adapter
Transport and Storage	Max Operating Altitude: 3000 meters Max Transport altitude: 12,000 meters Storage Humidity 5 to 95% relative humidity (non-condensing)
Regulatory	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
Warranty	2 years: Parts/labor; No charge online and telephone support