# LEGALTEK

A Division of Gulen, Inc

**BID SPECIFICATIONS**

**LX Solid State Digital DVD Video Recording System**

**System Description**

The Solid State Digital DVD Video Recording System shall consist of a Solid State Digital Video Recorder (DVR) with integral high-speed DVD Burner, high-resolution LCD monitor, touch-screen control console, high-resolution miniature color camera, high-gain pre-amplified microphone system with signal processing and audio/video cable kit, UPS power supply and Digital Video Evidence Management software.

The digital video recorder (DVR) shall have no moving parts and shall use non-volatile Secure Digital High Capacity (SDHC) media for maximum reliability. A high-resolution, progressive scan LCD touch screen console shall control system operation.

The DVR shall allow the simultaneous recording of two video sources and two audio sources plus multiple sources of metadata. The DVR shall be capable of operating within the range of interior temperatures found within a law enforcement facility without the need for supplemental heating or cooling. Systems utilizing hard drives, Compact Flash or real-time recording to DVD media will not be considered. The DVR shall include a USB flash drive and easily accessible USB port to accommodate the programming of unique user information through the use of a USB key.

The system shall be housed in an all-metal cabinet/chassis. Systems with plastic cabinet or chassis components will not be considered. The monitor, a premium, high performance, 17” color LCD display, shall feature a protective glass cover over the LCD panel. The monitor shall be capable of selecting between two video sources, provide a picture-in-picture or picture-by-picture display and feature IR remote operation. The system shall feature a 5” progressive scan touch screen control console.

The high-resolution miniature color camera shall provide a high signal-to-noise ratio image under varying light conditions. It shall feature an electronic shutter and be fitted with a fixed board, pinhole or varifocal lens to client specifications. The camera shall be extremely compact. The camera system shall include a regulated power supply; premium pre-made BNC video/DC power cables and mounting hardware.

The microphone system shall consist of a pressure zone microphone, balanced audio cable kit and pre-amplifier/signal processor/power supply. The microphone shall be phantom powered and available in a ceiling, wall or stainless steel vandal resistant enclosure. The microphone system shall include premium, pre-made balanced audio cables and mounting hardware.

Powered stereo speakers shall be provided with the system. The powered speaker shall include a volume control feature and regulated power supply.

The system shall include premium stereo headphones with an adjustable in-line volume control.

The system shall have the ability to stream live audio and video in real time to another location.

The system shall have the ability to read, display and store scanned magnetic bar code/2D data.

The system shall be compatible with NTSC or PAL standards and 120-240 VAC (50/60Hz) mains operation

The system shall be software upgradeable.

The system shall include all cables, hardware and instructions required for installation.

The manufacturer shall offer extended factory warranty coverage for up to five additional years.

**Solid State Digital Video Recorder (DVR)**

The DVR shall be of a purpose-engineered design for industrial/law enforcement applications. It shall be housed in a steel chassis enclosure, centrally mounted on the rear of a steel 17” LCD display chassis. The display shall feature a protective glass cover over the LCD panel.

For absolute reliability, the DVR shall have no moving parts and shall record onto Secure Digital High Capacity (SDHC) media. Systems utilizing hard drives, Compact Flash or real-time recording to DVD media will not be considered. The DVR shall utilize the stable LINUX operating system, and shall not require or utilize an external PC or Windows based software for operation.

The codec shall allow for 30 frames per second simultaneous recording of two video channels and two audio channels as well as multiple sources of metadata. The DVR shall utilize MPEG2 codec, 720 x 480 D1 video record resolution that has been optimized for law enforcement applications. The DVR shall be capable of recording two audio channels at a sampling rate of 16 Bit, 48 KHz.

The DVR shall be provided with a minimum 4GB SDHC card with expansion capability to include larger capacity cards upon request. The SDHC card shall be easily removable to accommodate file transfer when internal DVD burning is not the preferred method of storing files. Recorded files can be viewed, not modified or deleted.

The DVR shall include a programmable pre-event recording mode allowing it to capture images from 1-3 minutes prior to the activation of the RECORD mode.

The DVR shall feature a 5” LCD progressive scan active matrix resistive touch screen control console with fully adjustable brightness. The console shall have controls for: RECORD1, RECORD2, STOP, PLAY, FAST FORWARD, FAST REVERSE and VOLUME. When in playback, the DVR shall have the capability of up to 8X high-speed viewing in both forward and reverse modes.

The DVR shall feature an integral Time/Date/Character generator. The DVR shall include a USB flash drive and easily accessible USB port for quick programming of unique user information.

The DVR shall be capable of recording the following as metadata and/or on screen display: User Name, User ID, Time/Date, Recording time remaining/storage available always displayed; Scanned magnetic/2D card data-momentarily displayed, then stored as metadata

When in the RECORD mode, the system’s control console shall display the remaining storage capacity in an HH:MM:SS format.

**Camera System**

The camera system shall feature a 1/3” Sony Super HAD CCD II chipset capable of 550 lines of horizontal resolution, with a signal to noise ratio of greater than 45dB.

The camera shall have an electronic shutter of 1/60-1/100,000 sec, while the minimum scene illumination for a usable picture shall be 0.05 LUX.

The camera shall be fitted with a fixed board, pinhole or varifocal lens and housed in a disguise enclosure as specified by the end user.

The camera system shall include a premium BNC Video/DC Cable, length specified by the end user.

The camera system shall include a regulated DC power supply and all mounting hardware.

**Microphone System**

The microphone system shall include a pressure zone microphone in either ceiling or wall mount enclosure, pre-amplifier compressor/power supply, balanced audio cable and mounting hardware.

The microphone shall be of the pressure zone type and feature an electret condenser element with hemispherical polar pattern. The frequency response shall be 80Hz to 20,000Hz and S/N ratio of 120dB. The microphone shall be phantom powered by the pre-amplifier/compressor module.

The microphone system shall include a premium XLR Balanced Audio/Power Cable, length specified by the end user.

The microphone pre-amplifier/compressor shall feature a balanced XLR audio input, two RCA line level audio outputs, a level control, LED level and peak indicators and regulated DC power supply.

The system shall provide up to 50dB of gain, 20dB of signal compression and -6dB @ 20Hz integral high-pass filter.

 **Digital Video Evidence Management**

The system shall include Digital Video Evidence Management (DVEM) solution. The DVEM solution shall allow the uploading of files to a PC workstation or laptop for storage and case management. The DVEM solution shall:

* Play MPEG2 files under player control.
* Rapidly burn video or data DVDs from selected MPEG2 Files (The video DVD s shall be playable on any commercial DVD player or computer that plays movie DVDs).
* Share compatibility with Windows XP™, Windows Vista™ and Windows 7™.
* Include advanced time stamping features that allow the entrance of the elapsed time, real time, or offset real time. Automatically show the exact time for any Video.
* Grab snapshots from video files, save them as images in the local computer, view as Thumbnails or Full Views inside the DVEM browser.
* Provide mouse-click control of: Play, Pause, Auto Step Back, Fast Forward, Rewind, Stop, Step Forward and Step Back. Step Back, Step Forward and Back step after Pause.
* Provide pitch/speed control for MPEG2 video formats. During playback, slow down or speed up moving video. Offer frame-by-frame advance by depressing the keyboard’s spacebar.
* Be comprised of a software program that utilizes an external USB card reader; share compatibility with PC workstations or portable laptop computers.

 **UPS Power Supply**

The system shall include a microprocessor controlled uninterruptable power supply of at least 600VA. The supply shall be equipped with a boost and buck AVR to stabilize input voltage and DC start function to allow the UPS to be started without AC power input.

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