### Administrative-Finance Committee January 14, 2013 6:30 P.M. – Conference Room

- 1. Call to Order
- 2. Establishment of Quorum
- 3. Public Comment
- 4. Discussion Items
  - a. Task Force Officer
  - b. Purchase of Cable Broadcasting and Council Chamber Presentation Equipment
  - c. Class K Liquor Licenses
- 5. Other Business
- 6. Next Meeting February 11, 2013
- 7. Adjournment

### AGENDA MEMO

Administrative/Finance Committee Meeting Date: January14th, 2013

### ISSUE STATEMENT

Resolution approving an agreement with the United States Department of Justice - Task Force Agreement.

### **BACKGROUND/HISTORY**

At the 2012 Council goal setting session staff presented an overview of police staffing. One specific position/assignment discussed was a Federal Task Force Officer. The details of the position are contained in the attached agreement. The agreement is with United States Department of Justice, Drug Enforcement Administration and part of the High-Intensity Drug Trafficking Area (HIDTA) Program.

In summary, the mission of the High-Intensity Drug Trafficking Area (HIDTA) Program is to enhance and coordinate America's drug-control efforts among local, state and Federal law enforcement agencies in order to eliminate or reduce drug trafficking and its harmful consequences in critical regions of the United States. High Intensity Drug Trafficking Areas (HIDTAs) are areas identified as having the most critical drug trafficking problems that adversely impact the United States. These areas are designated as HIDTAs by the Director of the Office of National Drug Control Policy pursuant to the Anti-Drug Abuse Act of 1988, as amended. The mission includes coordination efforts to reduce the production, manufacturing, distribution, transportation and chronic use of illegal drugs, as well as the attendant money laundering of drug proceeds. While there is no guarantee that the potential of a local share of seizure money will cover the full expense of the officers cost, it is anticipated. The Federal seizure guidelines are not part of the attached agreement but outlined in the US Department of Justice document A Guide to Equitable Sharing for State and Local Law Enforcement Agencies. Federal law authorizes the Attorney General to share federally forfeited property with participating state and local law enforcement agencies.

### STAFF/COMMITTEE RECOMMENDATION

Staff recommends approval of the resolution.

### **ALTERNATE CONSIDERATION**

As directed.

### **DECISION MODE**

This will be placed on the January 21st, 2013, City Council meeting for formal consideration.

### STATE AND LOCAL HIDTA TASK FORCE AGREEMENT

This agreement is made this 21<sup>st</sup> day of January, 2013, between the United States Department of Justice, Drug Enforcement Administration (hereinafter "DEA"), and Darien, Illinois Police Department (hereinafter "Darien PD"). The DEA is authorized to enter into this cooperative agreement concerning the use and abuse of controlled substances under the provisions of 21 U.S.C. § 873.

WHEREAS there is evidence that trafficking in narcotics and dangerous drugs exists in the Darien, DuPage, Illinois area and that such illegal activity has a substantial and detrimental effect on the health and general welfare of the people of Darien, Illinois, the parties hereto agree to the following:

- 1. The Chicago HIDTA Task Force will perform the activities and duties described below:
- a. disrupt the illicit drug traffic in the Darien, Illinois area by immobilizing targeted violators and trafficking organizations;
- b. gather and report intelligence data relating to trafficking in narcotics and dangerous drugs; and
- c. conduct undercover operations where appropriate and engage in other traditional methods of investigation in order that the Task Force's activities will result in effective prosecution before the courts of the United States and the State of Illinois.
- 2. To accomplish the objectives of the Chicago HIDTA Task Force, the Darien PD agrees to detail one (1) experienced officer to the Chicago HIDTA\_ Task Force for a period of not less than two years. During this period of assignment, the Darien PD officer will be under the direct supervision and control of DEA supervisory personnel assigned to the Task Force.
- 3. The Darien PD officer assigned to the Task Force shall adhere to DEA policies and procedures. Failure to adhere to DEA policies and procedures shall be grounds for dismissal from the Task Force.
- 4. The Darien PD officer assigned to the Task Force shall be deputized as Task Force Officers of DEA pursuant to 21 U.S.C. Section 878.
- 5. To accomplish the objectives of the Chicago HIDTA Task Force, DEA will assign five (5) Special Agents to the Task Force. HIDTA will also, subject to the availability of annually appropriated funds or any continuing resolution thereof, provide necessary funds and equipment to support the activities of the DEA Special Agents and the Darien PD officer assigned to the Task Force. This support will include: office space, office supplies, travel funds, funds for the purchase of evidence and information, investigative equipment, training, and other support items.
- 6. During the period of assignment to the Chicago HIDTA Task Force, the Chicago HIDTA will remain responsible for establishing the salary and benefits, including overtime, of the officers assigned to the Task Force, and for making all payments due them. HIDTA will, subject to availability of funds, reimburse the Darien PD for overtime payments made by it to

- officers assigned to the Chicago HIDTA Task Force for overtime, up to a sum equivalent to 25 percent of the salary of a GS-12, step 1, (RUS) Federal employee (currently \$14,116.00), per officer. Note: Task Force Officer's overtime "shall not include any costs for benefits, such as retirement, FICA and other expenses."
- 7. In no event will the Darien PD charge any indirect cost rate to DEA for the administration or implementation of this agreement.
- 8. The Darien PD shall maintain on a current basis complete and accurate records and accounts of all obligations and expenditures of funds under this agreement in accordance with generally accepted accounting principles and instructions provided by DEA to facilitate on-site inspection and auditing of such records and accounts.
- 9. The Darien PD shall permit and have readily available for examination and auditing by DEA, the United States Department of Justice, the Comptroller General of the United States, and any of their duly authorized agents and representatives, any and all records, documents, accounts, invoices, receipts or expenditures relating to this agreement. The Darien PD shall maintain all such reports and records until all litigation, claims, audits, and examinations are completed and resolved, or for a period of three (3) years after termination of this agreement, whichever is later.
- 10. The Darien PD shall comply with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, as amended, and all requirements imposed by or pursuant to the regulations of the United States Department of Justice implementing those laws, 28 C.F.R. Part 42, Subparts C, F, G, H and I.
- 11. The Darien PD agrees that an authorized officer or employee will execute and return to DEA the attached OJP Form 4061/6, Certification Regarding Lobbying; Debarment, Suspension and Other Responsibility Matters; and Drug-Free Workplace Requirements. The Darien PD acknowledges that this agreement will not take effect and no Federal funds will be awarded to the Darien PD by DEA until the completed certification is received.
- 12. When issuing statements, press releases, requests for proposals, bid solicitations, and other documents describing projects or programs funded in whole or in part with Federal money, the \_\_\_\_\_\_ shall clearly state: (1) the percentage of the total cost of the program or project which will be financed with Federal money and (2) the dollar amount of Federal funds for the project or program.
- 13. The Darien PD understanding and agrees that HIDTA will provide the Darien PD Task Force Officer with vehicle suitable for surveillance. HIDTA through DEA will furnish mobile radios for installation in the HIDTA Task Force vehicles and HIDTA will assume the cost of installation and removal. HIDTA will be financially responsible for the purchase of fuel for the leased vehicles and for providing routine maintenance, i.e., oil changes, lubes, and minor tuneups via the HIDTA lease contractor. DEA and HIDTA procedures for reporting and investigating automobile accidents involving Official Government Vehicles (OGV's)-HIDTA lease vehicles shall apply to accidents involving the leased vehicles furnished to the Darien PD personnel, in addition to whatever accident reporting requirements the Darien PD may have.

- 14. White on duty and acting on task force business, the Darien PD officer assigned to the HIDTA task force shall be subject to all DEA and federal government rules, regulations and procedures governing the use of OGV's for home to work transportation and for personal business. The HIDTA Executive Committee acknowledges that the United States is liable for the action of task force officer, while on duty and acting within the scope of their federal employment, to the extent permitted by the Federal Torts Claim Act.
- 15. The term of this agreement shall be effective from the date specified in the opening paragraph until September 30, 2013. This agreement may be terminated by either party on thirty days' advance written notice. Billing for all outstanding obligations must be received by DEA within 90 days of the date of termination of this agreement. DEA will be responsible only for obligations incurred by Darien PD during the term of this agreement.

For the Drug Enforcement Administration:		
John J. Riley	Date:	
Name		
Special Agent in Charge/Chicago Field Division Title		
For the Darien Police Department		
Ernest Brown	Date:	
Name		
Chief of Police Title		

### AGENDA MEMO Administrative/Finance Committee January 14, 2013

### ISSUE STATEMENT

A resolution authorizing the City Administrator to replace cable recording and presentation equipment in the City Council Chambers.

### **BACKGROUND HISTORY**

The City of Darien constructed cable channel and recording equipment in the mid-1990s to broadcast community meetings to the public. Since this time the equipment has aged and there have been many technological advances that could improve the communications to residents. In 2012 a new Comcast Franchise Agreement was passed, giving the City of Darien an avenue to finance this equipment replacement and upgrades. The goal is to cost efficiently deliver meetings and information to community residents.

The small scale government cable channel equipment industry is relatively small. We have previously obtained quotes from two companies that later went out of business, and two companies that would like to undertake an entire system overhaul. The entire system overhaul was viewed by Staff as excessive because several system components, including the video cameras, work very well now. The system that needs to be replaced critically is the message boards, and the recording devices themselves have been breaking down regularly, keeping the meetings from being shown properly. Because of this, Staff has focused on bringing proposals for equipment for these specific items.

One proposal, from AVI for budgeting purposes, was well in excess of \$100,000 and we determined they were not a good fit for our current needs. Another proposal, from AVI SPL, was broken down more succinctly and provided good equipment, but for the character generator, switches, and presentation equipment in the City Council room came out to \$61,199.16. Another company, Midwest Computer Products, provided a proposal with two options and sufficient equipment that ranged from \$25,986.42 - \$34,781.42. After leaving the company and forming a competitor, Fathom Media, the employee we had worked with from Midwest Computer Products provided a proposal that ranged from \$25,546 - \$31,900, which is the lowest cost proposal that staff feels is sufficient for the needed upgrades.

Both the \$25,546 and \$31,900 proposals provide for new digital recorders that are sufficient to record the meetings and schedule the playback of meetings and videos for residents at different times of day, create message boards to give residents pertinent information, replace the current television in the Council Chambers with three specially located televisions and install a computer and presentation equipment at the podium to allow residents and staff to give presentations to elected officials, audience members, and viewers on television. The current audio cassette device behind the elected officials will also be replaced with a digital version. The upgraded proposal provides a Nexus instead of a Mini-T, which is good equipment but is getting dated and

phased out and not upgradable. The spec sheets are included in the proposal, but in summary this allows for emergency message scrolling across the screen during meetings, informational boards, and videos. It also contains significantly more storage capacity, which is helpful now and could be essential when the video cameras and audio are upgraded. It also includes board messaging software, which the Mini-T does not include, and would need to be purchased separately. With the upgrade utility of message boards, increased storage, and ability to expand it in the future and avoid additional equipment or replacement, staff recommends the \$31,900 version of the proposal with the Nexus equipment. An additional \$1,000 will need to be spent for the video storage for a total project cost of \$32,900. The Communications Committee reviewed and recommended approval unanimously. Originally, Staff had budgeted \$20,000 for a smaller partial project project, but the scope of the project increased to include the message boards, storage, and presentation equipment, which make sense to do at the same time. There is \$22,250 in the budget line item currently. The entire project cost will be budget neutral over three years, however, because the PEG fee applied on resident's bill will be directed back to the City of Darien.

### STAFF/COMMITTEE RECOMMENDATION

The Communications Commission and Staff recommends approving the proposal with Fathom Media for \$32,900.

### **ALTERNATE CONSIDERATION**

Approving an alternate proposal would be an alternate consideration.

RESOLUTION NO.	RESOL	LUTION	NO.	
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# A RESOLUTION AUTHORIZING THE CITY ADMINISTRATOR TO REPLACE CABLE RECORDING AND PRESENTATION EQUIPMENT IN THE <u>CITY COUNCIL CHAMBERS</u>

WHEREAS, the City of Darien operates and maintains a video recording studio to provide a cable channel of public information to broadcast public meetings, create informational boards on and replay videos of public interest; and,

WHEREAS, the City of Darien has a franchise agreement with Comcast, in which they agree to charge up to \$0.35 per account per billing period to the City of Darien to financially support this equipment; and,

WHEREAS, components of the system need to be replaced, including the video scheduling and storage, informational board creator, and upgrades to the presentation equipment in the City Council Chambers are needed; and,

WHEREAS, the City of Darien solicited proposals and Fathom Media came in as the lowest responsible bidder; and,

WHEREAS, the City of Darien intends to collect the funds for this project under the franchise agreement with Comcast,

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS:

The City Administrator is hereby authorized to purchase cable recording and presentation equipment for the City Council Chambers from Fathom Media in an amount not to exceed \$32,900.

PASSED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DUPAGE

COUNTY, ILLIN	OIS, this day of January, 2013.
AYES:	
NAYS:	
ABSENT:	
APPROVI	ED BY THE MAYOR OF THE CITY OF DARIEN, DUPAGE COUNTY,
ILLINOIS, this	day of January, 2013.

RESOLUTION NO	
	KATHLEEN MOESLE WEAVER, MAYOR
ATTEST:	
JOANNE E. RAGONA, CITY CLERK	
APPROVED AS TO FORM:	
CITY ATTORNEY	



City of Darien 1702 Plainfield Road Darien, IL 60561 630-852-5000 Project #: 561-JF3-1212

December 11, 2012

# **Board Room Technology Improvement**

### **Existing Configuration**

The scope of work will be performed in the Darien City Hall lower level Board Room, the Broadcast and production control room, and the hallways that connect the two. The current configuration allows the City of Darien to Record both Audio and Video onto (quantity 6) Sony DVD players, transmit video content to an Audience Video Monitor and 2x Control Room Monitors, the audio to Boardroom speakers, and audio and video to a broadcast modulator. Audio is also recorded in a separate rack via cassette tapes located behind the board members.

### Scope of Work

- -Disassemble and Remove existing 6 x DVD players (DVPNS57P/B) from existing 7' rack.
- -Install and configure the Mini-T-NX automation solution into the existing 7' rack.
- -Install Audio/Video presentation scaler / switcher with Audio / Video over Cat5 transmitters / Receivers and source selection 2-button user interface touch panel.
- -Install 2 x 47" commercial grade Flat Papels in Board seating area with video receiver from AV switcher
- -Install 60" commercial grade flat Panel in audience seating area (adjacent to existing flat panel) with video receiver from AV switcher
- -Add one electrical outlet at each Flat Panel Location (recessed clock outlet)
- -Add one VGA with 3.5mm audio, and one HDMI input faceplate at presenter's station
- -Pull and terminate all AV cables to the three flat panels and two input faceplates
- -Install, cable, and configure the AV receivers, switchers, and transmitters in existing 7' rack
- -Connect and configure all AV components to existing Panasonic Video Switcher and existing Audio Mixer
- -Remove Cassette recording device and replace with a digital audio recorder.



### **Proposed Cost and Options**

Fathom Media will supply all necessary components, labor, electrical, and programming to accomplish the Board Room Technology Improvement. The components shall include, but are not limited to: all commercial grade displays, presentation scaler/switcher, HDMI and VGA Receivers and Transmitters, specialty Unshielded Twisted Pair for HDMI and VGA transmission, faceplates, mounting hardware, HDMI and VGA with 3.5mm audio patch cables, Audio Patch Cables, Rack mount accessories, and all other materials, mounting hardware etc needed to complete the work as described in the Scope of Work above. In addition, Fathom Media will supply any and all company created source codes and As Built drawings upon completion.

Cost: \$25,546.00 (Mini-T-NX automation solution)

or

Cost: \$31,900.00 (Nexus automation solution)

Estimated Time to Complete: 3 Business days (2 days for installation, 1 day for testing)

Estimated Lead Time: 2 weeks

### **Change Orders**

Changes or additions to the scope of work will require a signed Change Order. Changes may affect the project timeline.

### Proposal Disclaimer

Fathom Media offers the above proposal under the following assumptions: all of the existing products and programming are in good working order, there are sufficient electrical outlets for the additional products (with the exception of the 3 commercial displays), and The City of Darien is responsible for any and all permits and permissions for building improvements. This quote is good for 30 days from the date above. Fathom Media, Inc. is not responsible for product model changes, product discontinuation, or back orders. Where applicable, freight charges and applicable taxes are the responsibility of the customer and are not included on this quote. Projector and Screen installations that require additional mounting hardware to overcome obstacles will incur additional costs to the customer. Fathom Media, Inc. may substitute like products with or without notification.



### Warranties

### Workmanship

Fathom Media warrants that the enclosed proposed Audio Visual solution will be free of defects in workmanship for a period of 90 days from substantial completion. Substantial completion is defined as:

The date at which the work or building project, or a designated portion of the work or building project thereof is sufficiently complete, in accordance with the construction contract, so that the owner may use or occupy the work or building project or designated portion thereof for the intended use for which it is originally designed and intended for.

This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, lightning, power surges, or other acts of nature. This limited warranty does not cover any damage, deterioration or malfunction resulting from the removal of products from the installation, any unauthorized tampering with the products, any repairs attempted by anyone unauthorized by Fathom Media to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of these products or solution. Without limiting any other exclusion herein, Fathom Media does not warrant that the products covered hereby, including, without limitation, the technology and/or integrated circuit(s) included in the product, will not become obsolete or that such items are or will remain compatible with any other product or technology with which the product may be used

Half-space 1RU Solid State Audio Recorder

# DN-F450R

The DN-F450R offers a simplified, cost compellive solid state recording and playback capability. Derived from the DN-F650R, the half rack size unit provides for recording and playback to and from SD and SDHC flash memory cards, with USB connectivity to PC for file management and transfer. Balanced analog inputs on XLR are teatured alongside unbalanced I/O. Stereo and mono audio channels are simultaneously available, and PCM WAV and MP3 file formats are supported, at 48 / 44.1 kHz and 32 - 320 kbps. Serial and contact closure remote control are supported, and a headphone out with volume control is included. Selectable playback modes, power on auto play, marking and mark search, audible quick search, and easy file search with the front panel jog wheel are all featured.





### Key Features

- · Recording to a SD/SDHC card
- Supports WAV (PCM) and MP3 format
- · Half of 19 inch rack mountable, 1U size
- OLED display
- Balanced and unbalanced audio input
- Serial Remote (RS232)
- Contact closure remote control (Foot Pedal Remote)
- Connecting to PC via USB
- Marking and Mark search
- Audible Quick Search
- · Various playback modes (Single/Continuous, Repeat, Random)
- Power On Auto Play
- · Easy file search with Jog Wheel
- Headphones with Level Control

### Overview

The Denon DN-F45OR is a highly versatile professional solid state recorder offering recording to SD/SDHC flash cards. Designed to fulfill the most demanding playback and recording applications in AV installation, audio production, live sound, theatre and broadcast, the DN-F45OR is a professionally specified, cost-effective replacement for cassette, DAT, MD, CDR and commodity PC based systems currently fulfilling such roles. The DN-F45OR has balanced XLR analog audio inputs as well as unbalanced analog connectivity. Serial and contact closure remote control are supported, and the unit can be operated with Denon Professional's latest RC-F40OS 'Hot Start' serial remote controller.

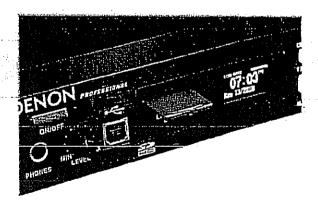
### Advanced Usability

The easy-to-read OLED display and easy file search jog wheel enables simple front panel operation. A variety of playback modes includes

single, repeat, random, continuous and skip back play and a headphone out with volume control are also included.

### Recording and Formats

Stereo and mono audio channels are simultaneously available and both WAV and MP3 file formats are supported, with selectable sample rates of 48 and 44.1 kHz at 16 bit resolution, and MP3 bit rates between 32 and 320 kbps.



\*RC-F4005 compaliblily available 10/2010

PLEASE NOTE: Specifications are based on measurement conditions and proper care for the machine, and are subject to change without notice.

D&M Professional 1100 Maplewood Orive Itasca, Illinois 60143 Tel: 630.741.0330 Fax: 630.741.0652

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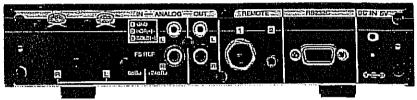


# DN-F450R

### **Applications**

- Education
- Government / Municipality
- Conference Recording
- Houses of Worship
- Broadcast
- Studio
- Lecture Recording
- Hospitality
- · Corporate / Meeting Recording





### Specifications

System

Medla: File Format:

Media Format:

MP3 Bit Rate: Sampling Frequency:

Quantization:

WAV / MP3 (MPEG-1 Layer III)

FAT / FAT32

32 - 320 kbps / stereo

48 / 44.1 HHz

**Audio Section** 

Audio Channels:

Frequency Response:

S/N Ratio:

Channel Separation: Tetal Harmonic Distortion:

Dynamic Range:

Inputs

Balanced Input:

Input Sensitivity:

Input Impedance:

Unbalanced Input:

Input Sensitivity:

input Impedance:

Level:

SD / SDRC

16 blt

2 (Stereo) / 1 (Mono) 20 Hz - 20 kHz ± 1.0 dB

90 dB (1 kHz, 0 dB playback, A filter)

80 dB (1 kHz, 0 dB playback)

0.01% (1 kHz, 0 dB playback)

Type XLR (1:GND, 2:Hot, 3:Cold)

24 kohms

Outputs

Unbalanced Output:

Level:

Headphone Oulpul:

+24 / O dBu

Type RCA

500 mVrms

22 kohms

Type RCA

2 Vrms Type TRS 1/4"

20 mW / 32 ahms

General

Power Supply:

Power Consumption:

Dimensions (W x H x D):

**Environmental Conditions** 

Operating temperature: Operating humidity:

Storage lemperature:

Storage humidity:

Included Accessories

AC Adaptor DA620PMD:

CD-ROM for multi-language manuals

Carlon Weight: Country at Origin:

DC 5V (DA620PMD)

217 x 44 x 270 mm

5 W

1.7 kg

+5°C to +35°C

25% to 85%, no condensation

-20°C to +60°C 25% to 85%, no condensation

Stereo Audio Cable:

USB Cable:

19" Rack Kit:

Operating Instructions:

& DMP Mark Editor software:

Other Information

Carton Size (W x H x D):

435 x 145 x 310 mm

3.5 kg

Јарап

D&M Professional 1100 Maplewood Drive Hasca, Illinois 60143 Tel: 630.741.0330 Fax: 630.741.0652 PLEASE NOTE: Specifications are based on measurement conditions and proper care for the machine, and are subject to change without notice.

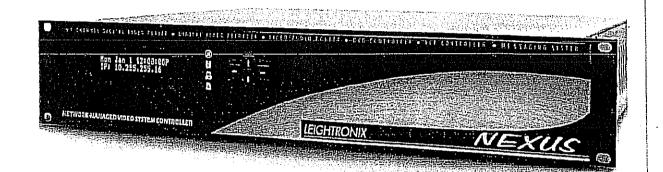
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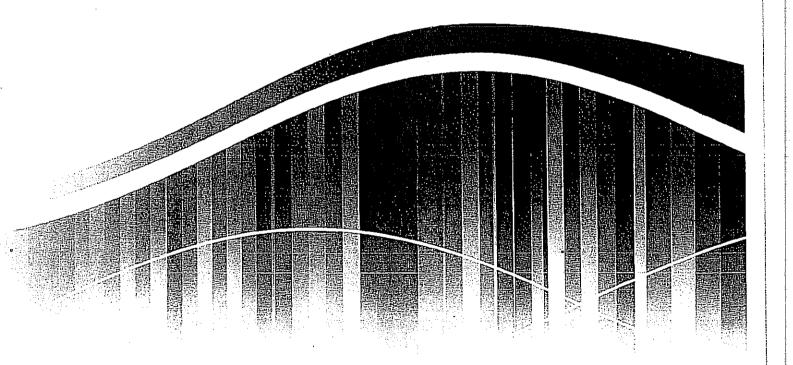
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Video Server/System Controller

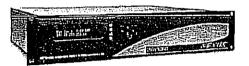




END-TO-END Solutions for Broadcast & Streaming

LEIGHTRONIX

# Introduction



### Highlights

- True station-in-a-box
- · Affordable for any television operation
- 5 year warranty
- · Free support for the life of the product

The unique, all-in-one design of the NEXUS® separates it from other video server and television automation solutions. All of the features and functionality for unattended channel automation are built into the NEXUS, including a multichannel digital video server, two video messaging channels, DVD/VCR device control, video\audio switching, and a powerful, programmable event controller.

With the NEXUS at your command, you can easily capture the attention of your audience with all-digital program playback synchronized with powerful video messaging. Operation is straightforward and requires little technical expertise. New users will quickly develop comprehensive broadcast schedules with minimal instruction.

Thousands of video professionals have discovered the unmatched value and performance of the NEXUS. Its user-friendly, versatile design has made the NEXUS the trusted digital television automation solution for a wide range of applications, including local broadcast, local cable television, and private, inhouse communication networks.

# **Features**

The LEIGHTRONIX NEXUS is truly an innovation in playback automation, combining digital video server technology, DVD and VCR control, video and audio signal routing, and digital video messaging in one compact and affordable package.

### Multi-Channel Digital Video Server

- Two MPEG playback (decode) channels
- One broadcast MPEG record (encode) channel
- · Simultaneous operation of all playback and recording channels
- Extended, continuous recording up to 24 hours
- TOTAL IMPORT" of DVD programs to video server

### Scalable Local Media Storage

- External hard drive storage via four Universal Serial Bus (USB) ports for up to one terabyte (TB) of digital media storage
- TOTAL SHARE" option expands local media storage capacity to five TB
- Digital file transfer via glgabit Ethernet
- · Automated Total Backup' of digital media to local or network drive

### **Integrated Digital Video Messaging**

- · Two digital video messaging channels
- Two digital media overlay channels (graphic and text)
- · Web interface with remote video slide management
- Emergency Messaging: online video slide creation and activation
- Optional TOTAL INFO® dynamic video content
- · Dynamic onscreen program gulde

### **Device Control**

- Four infrared control ports
- Two DVply<sup>™</sup> Serial Control Ports; DVD control with title:chapter access
- Optional PRO-BUS" control Interfaces (DVD/VCR/GPI)
- Optional ePRO-BUS" remote control for up to 16 PEGvault-SD" digital video encoders via TCP/IP network

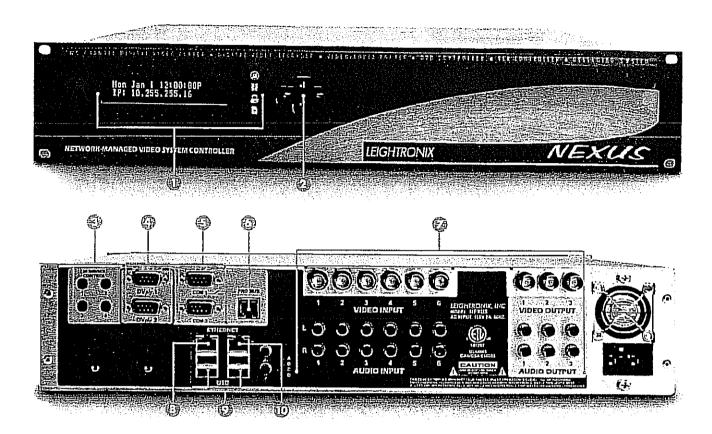
### Video/Audio Signal Routing

- Internal 8x4 video and stereo audio routing switcher
- · Control for select external routing matrices up to 32 inputs by 32 outputs

### **Local and Remote System Control**

- Drag and drop scheduling with error checking and conflict reporting
- · Comprehensive media library
- Remote management via TCP/IP network
- WebNEXUS<sup>™</sup> Mobile browser-based interface designed exclusively for mobile electronic devices

## Hardware



- Vacuum Fluorescent Display and Status LEDs: front panel offers status on: time/date, MPEG channels (play/ record), switcher, hardware/firmware versions, serial number, IP address, valid video, schedule activity, and logged events.
- Keypad: password-protected access to the main display menu. Quickly and easily configure the NEXUS for network connection (IP address, subnet, gateway) and enable/disable key system functions.
- Integrated IR Device Control: four infrared (IR) device control ports are built into the NEXUS and may be configured to operate with a variety of DVD and videotape equipment from leading manufacturers.
- 4 DVply: advanced DVD player control for two commercial grade DVD players allows random disc access with title:chapter selection.
- 5 Communication Ports: for expanded switching, connect COM 1 to a supported video/audio routing switcher for system control of up to 32 inputs and 32 outputs. COM 2 is for diagnostic purposes only.

- 6 PRO-BUS: your versatile solution for device control. PRO-BUS device control interfaces are available for hundreds of models of VCRs and DVD players and recorders.
- 7 Internal Routing Switcher: a fully integrated, true matrix video/audio routing switcher is standard on the NEXUS.
- 10/100/1000BASE-T Ethernet 1: provides a high speed connection to a TCP/IP network. Remotely control system and manage digital media using the provided WinLGX software.
- 9 Four USB 2.0 Ports: local digital media storage via USB allows configuration of up to one terabyte of local media storage.
- 10 10/100/1000BASE-T Ethernet 2: high speed connection exclusively for private, local media storage network using the TOTAL SHARE option. Add up to four more terabytes of local media storage using approved network attached storage devices.

# Digital Video Server

### Video Server Key Features

- Simultaneous operation of all channels (play & record)
- Extended program recording capability allows individual program recording for up to 24 hours in length
- Compliant with Alliance for Community Media (ACM) Server Standards





LGX-1TBR-D

One terabyte USB RAID hard drive array

Two fully independent digital video playback channels plus a record channel are built right into the NEXUS and can be simultaneously operated. The built-in record channel supports both constant (CBR) and variable (VBR) bit rate encoding. Three user-defined recording parameters allow the operator to select and save the video bit rate(s), full D1 or half D1 resolution, and audio sampling settings. For immediate or scheduled recording, simply click on one of the three recording presets to select the right parameters for the job. During a record session, the NEXUS can even be told to always overwrite an existing MPEG file or create a new, unique name on-the-fly. Extended length, continuous file recording for up to 24 hours at high-quality MPEG-2 video/audio bit rates ensures that even the most demanding record situations are no problem for the NEXUS.

A special ingest feature included with the NEXUS uses PRO-BUS control to automate recording from videotape and DVD source machines. Select the source device from any of the system resources, indicate the desired quality using the recording presets, name your file, enter the length, and go. WinLGX software automates the process and allows you to digitize your video with ease.

### File Transfer

If your programming originates from a source outside your playback system, such as output from a non-linear editor, simply transfer the files onto the NEXUS hard drive for immediate playback. The NEXUS accepts MPEG-1 and MPEG-2 files output from many popular non-linear editing systems and professional encoding equipment. Glgabit Ethernet ensures rapid transfers of large media files.

### Scalable Local Media Storage

For an innovative approach to media storage; the NEXUS uses external hard drives connected to USB ports. The NEXUS digital media storage is fully scalable, with four USB 2.0 ports that allow you to set up and adjust your file storage capacity to meet the specific needs of your operation. Connect up to a total of one terabyte of external USB storage to hold hundreds of hours of programming.

The LGX-500GBR-D and LGX-1TBR-D are high performance USB hard drive arrays featuring full data redundancy. Each model is equipped with dual hard drives, configured in RAID 1 mode, providing fully mirrored data (the drives are exact copies of each other). The drive enclosure is rack mountable and occupies only one rack unit of space.

With increased drive capacity at a lower cost, USB storage makes sense and saves you money (USB storage devices sold separately).

Visit leightronix.com/USBstorage for additional information on USB digital media storage options.



### LGX-4TBR-N

Four terabyte RAID hard drive array for use with TOTAL SHARE option

### **Expanded Media Storage**

The NEXUS TOTAL SHARE™ option dramatically increases your digital media storage capacity through a private, dedicated digital media storage network using approved Network Attached Storage (NAS) devices. The expanded private storage network is exclusively for local digital media storage and is isolated from the primary gigabit Ethernet port used for system control. Up to four terabytes of expanded storage may be configured in addition to the standard USB storage for an overall system capacity of five terabytes.

### **Increased Channel Capacity**

Increase your system's channel capacity by attaching up to four NEXUS, UltraNEXUS™, or UltraNEXUS-SDI™ video servers to the TOTAL SHARE network. The NEXUS series video servers share all NAS devices on the TOTAL SHARE network, creating a modular video server system.

Visit leightronix.com/TOTALSHARE for more details on expanded storage and channel capacity.

### Digital Media Storage Chart

The following table shows typical record times for the NEXUS constant video bit rate (CBR) recording. The examples given in the table below are based on MPEG-2 encoding with full D1 resolution (720x480) video and 256Kb/sec audio bit rate. The NEXUS also supports variable bit rate (VBR) encoding, offering the potential for even more storage time.

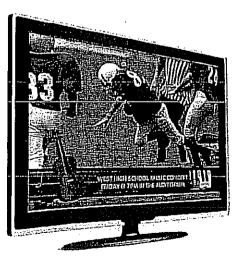
Total Storage	Hours @ 4Mb/s	Hours @ 6Mb/s	Hours @ 8Mb/s
500GB	225	156	120
1TB	450	312	240
5TB	2,250	1,560	1,220

Note: Manufacturers' methods for reporting hard drive sizes as well as data protection (RAID) will affect the actual usable drive capacity realized by the NEXUS system.

# Digital Video Messaging



The NEXUS can handle your digital video messaging needs without external hardware. Drag and drop video slides right into your schedule and synchronize your vital messages with program playback.



Graphic and text video overlay for scheduled and/or emergency messaging.

### **Powerful Digital Video Messaging**

The NEXUS is equipped with two independent digital video messaging channels and two digital media overlay channels that support both graphics and text. No additional hardware is necessary. Everything you need for communicating with dynamic, professional looking video messaging is built in.

### Video Slides and Slide Shows

Video slides may be organized on an individual basis or grouped into slide shows using up to 32 user folders. WinLGX management and control software makes it easy to complement video programming with video messages as part of the standard broadcast schedule. Simply select video slides, and/or video slide shows from the media library and drag and drop them into your schedule. Introduce programming by strategically placing slides before or following programs with "coming up next" information.

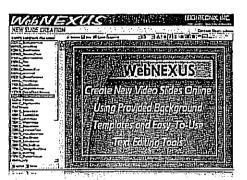
### Video Overlay

The NEXUS also provides support for hundreds of video overlay resources. Video overlays may be integrated within the broadcast schedule or initiated on an urgent basis using the emergency messaging feature. Each video overlay can include full screen graphics with support for transparency, and custom text in the lower third of the screen. Video overlays may appear over digital resources such as digital video clips and programs, and/or video slides.

### Virtual Channels

For a simpler approach to video messaging, the NEXUS Virtual Channels provide two looping, fallback video sources that automatically appear between scheduled programs. The Virtual Channels allow users to easily create and display a default looping playlist of multiple NEXUS video/audio sources between programs. The Virtual Channels may be used along with video messaging resources in the broadcast schedule.

A wide range of system resources may be added to the Virtual Channels, including video slides, video slide shows, digital video (MPEG) clips, and the TOTAL INFO dynamic data display option.



The WebNEXUS Interface is simple enough for a first-time user to create and manage striking and effective video slides.



A dynamic, onscreen program guide provides viewers with a complete listing of upcoming programs.

### WebNEXUS Digital Video Messaging

A built-in Web interface, WebNEXUS<sup>™</sup> is a powerful and versatile tool for remote digital video messaging. From anywhere your network extends, up to 32 authorized users can log into WebNEXUS and upload slides, create new slides, and generate emergency messages. Authorized users can quickly and easily submit video slides imported as common JPEG images into separate, password-protected user accounts. Each user can upload hundreds of slides into their own folder within the NEXUS to form an individual slide show. During upload, users determine the days, times of day, and/or date(s) the slides will appear.

Individual video slides remain inactive until they have been reviewed and added to the slide show by the system administrator. Select, trusted users can be assigned automatic authorization rights, adding new slides to the slide show without administrative approval.

### Online Video Slide Creation

With the WebNEXUS text editor, users can also create custom slides by placing text directly over any of the uploaded or provided background slide templates. Text editing tools give users the ability to choose from specialty type fonts designed especially for broadcast television and also select the text's font color, size, and position on the screen.

### Onscreen Program Guide

The NEXUS can automatically generate a dynamic onscreen display of upcoming programs. Retrieving information from the schedule, the NEXUS automatically overlays a listing of the next ten upcoming programs on a user-selected graphic background. The program guide can be scheduled at specific times as an individual slide or appear within the normal rotation of one or more slide shows.

More information on WebNEXUS can be found on page 16.

# **Emergency Messaging**

Log into WebNEXUS and activate urgent video messages. WebNEXUS makes emergency messaging fast, easy, effective and is available to any authorized user.

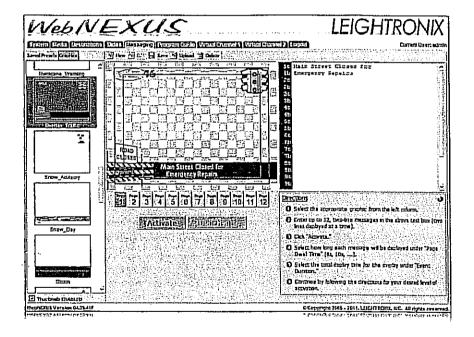


Before

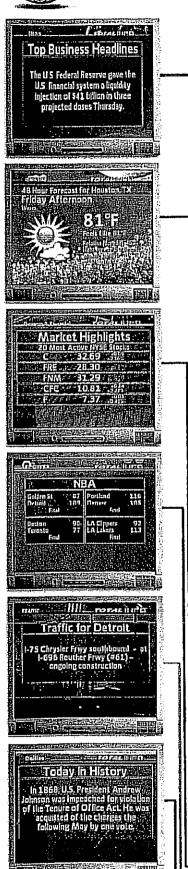


After

Using WebNEXUS, authorized users can create and activate an emergency message quickly and easily by simply selecting a background graphic and entering up to twelve pages of two-line text. Text appears in the lower third of the screen while users can determine the placement of images by creating and uploading graphic files that support transparency. The ongoing programming is fully or partially covered based on the configuration of the selected graphic. Once activated, emergency messages are displayed immediately over digital programming and remain available for the specified duration.







# Dynamic Video Content

### **TOTAL INFO**

The TOTAL INFO® dynamic video content option brings the latest news, sports, weather, and more to NEXUS-POWERED local television channels. TOTAL INFO enhances the appearance of your on-air channels while informing and entertaining your viewers with dynamic video content. TOTAL INFO is perfect for complementing regularly scheduled programming or providing the orimary content for information and entertainment channels.

### Easy

TOTAL INFO is easy enough to be quickly mastered by a first time user. It only takes a few quick steps to add one or more of the news and information categories to the TOTAL INFO display sequence.

### Set It and Forget It

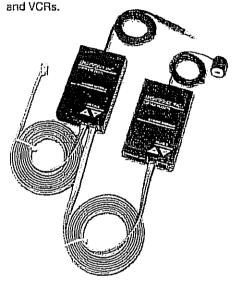
Once configured, TOTAL INFO becomes 100 percent automated as news and information are continually delivered to the NEXUS and formatted for display over background video images. TOTAL INFO provides video content that is always new and relevant without constant attention.

### **Affordable**

TOTAL INFO is fully integrated within the NEXUS and may be easily activated through a low-cost annual subscription service. No additional hardware is required. Only a reliable connection to the Internet is needed for continuous delivery of TOTAL INFO data to the NEXUS.

# **Device Control & Switching**

PRO-BUS interfaces provide control for a wide range of DVD Players, DVD recorders,



### VCR and DVD Control

The NEXUS has the power to command and control up to 22 external playback and recording devices and even includes four integrated infrared control interfaces right out of the box. The IR control ports are user-programmable for operation with select DVD players/recorders and VCRs. One IR transmitter cable is included with the NEXUS. Additional IR transmitter cables are available for purchase.

The NEXUS also supports the PRO-BUS control scheme. Optional PRO-BUS interfaces support hundreds of DVD players/recorders and VCRs and are available for infrared, wired (mini-plug), and serial (RS-422) remotes.

### Advanced DVD Player Control

For advanced DVD player control, the NEXUS is equipped with two DVply RS-232 DVD player control ports. Adding in a couple of commercial DVD players will open new doors to playback flexibility with random disc access (cue by title:chapter).

### **Facility Signal Routing**

If you're running a local television operation, chances are you need signal routing. The NEXUS has a powerful video/audio routing switcher built right in. Six external inputs plus two internal digital player inputs can be routed to any of three external outputs. A fourth internal "output" is routed to the digital video recorder inside the NEXUS. True matrix routing, any source to any destination, is a standard feature of the NEXUS.

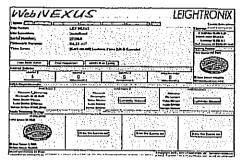
### **Video Detection**

Loss-of-video detection is featured on all three video outputs of the internal switcher. Each video output is independently and continually monitored for a valid video signal. If video is lost, a default input will automatically be routed to the output. A unique default input (1 of 6) may be assigned independently for each output.

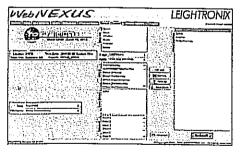
### **Control for External Routers**

The NEXUS is capable of interfacing with and controlling video/audio routing matrices with up to 32 inputs by 32 outputs from select manufacturers.

# WebNEXUS Web Interface



WebNEXUS provides convenient access to the NEXUS using a standard Web browser.



The NEXUS Virtual Channels make it easy to configure default video sources for automatic display between video programs.

WebNEXUS is a built-in Web server within the NEXUS providing system status and control using a standard Web browser. WebNEXUS provides easy access for system status/logs, media management, video messaging, and configuration of the Virtual Channels.

WebNEXUS provides support for up to 32 unique users, with individual user rights assignable by the system administrator.

### Monitor System Status

- Site Information: name, location, serial number, firmware version
- Switcher status inputs/outputs
- MPEG player 1-2, and MPEG recorder status
- USB Digital Media Storage: used space, free space, diagnostics

### Manage Digital Media Destinations and Transfers

- Select digital media files for automatic transfer to other NEXUS video servers
- Transfer to LEIGHTRONIX PEG Central streaming video-on-demand site
- Transfer to third party streaming, broadcast, or archive server (FTP capable)

### **Create and Contribute Video Slides**

- Upload complete slides as standard JPEG images
- · Create new slides online with the online slide editor

### **Emergency Messaging**

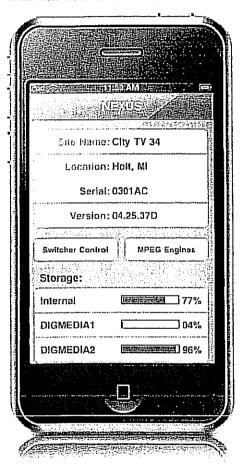
- Login and easily activate urgent messages
- · Add lower third text to graphic backgrounds
- Graphic transparency allows for full or partial screen display
- · Limit event duration in days, hours, and minutes

### **Virtual Channels**

- Configure Virtual Channels 1 and 2 for automatic display between program playback
- Select from video slides, video, external sources, and/or dynamic video content

# WebNEXUS Mobile

Control the NEXUS from the palm of your hand with WebNEXUS Mobile.



WebNEXUS Mobile gives users handheld, remote access and control to their NEXUS television automation and video server systems. System administrators can easily check status, activate video playback, trigger a recording, or perform video/audio switches.

WebNEXUS Mobile is accessible over the Internet through several popular handheld devices, including cellular phones and wireless network devices based on the Apple® iOS operating system. The WebNEXUS server automatically detects the device type and provides a Web format suitable for their individual display capabilities.

Once connected, a user is prompted with a standard login. With the entry of a valid username and password, the remote user is provided a menu offering status and control over the digital video playback and record channels and the internal or external system routing switcher. The Interface provides real time device control and status.

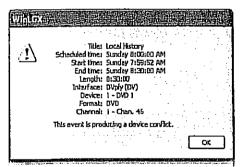
### Mobile Control and Monitoring Features

- · Check system and switcher statuses
- · Send switch commands
- . Monitor activity of MPEG playback and record
- Play MPEG video files
- Record MPEG files
- Supports Apple® iOS: works with iPhone® and select iPod touch® models

# WinLGX Software



The Storage Manager makes it easy to send, retrieve, move, and delete digital video programs, slides, and overlays.

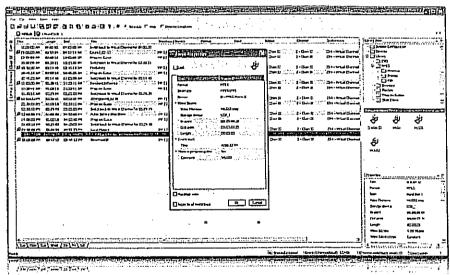


WinLGX monitors resources and channels for conflicts during scheduling.

Included with the NEXUS controller is the WinLGX management and control software. WinLGX provides all of the tools necessary for local and remote system control of LEIGHTRONIX digital video servers and system controllers via TCP/IP network. System configuration, immediate device control, scheduling, and system status are all easily managed through the software's powerful yet easy-to-use interface.

### Support for Mixed Media Formats

The media resource library included with WinLGX makes it a breeze to organize programs, including digital video files (MPEG), DVD programs, videotape titles, and JPEG video slides. Custom library folders can also be created for at-a-glance media selection. New MPEG programs can be automatically added to the library during recording or file transfers with the special "Add to library" function.

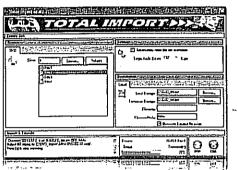


### **Drag and Drop Scheduling with Error Checking**

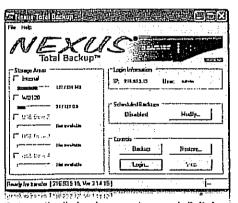
Drag and drop scheduling with conflict reporting ensures quick and easy development of playback schedules. Each time a new program is added to the schedule, the comprehensive error checking routine reviews all devices, resources, and channels, immediately alerting users of any conflicts.

### Licensing and Updates

No need for a license with WinLGX. WinLGX is provided with the NEXUS free of charge and may be copied and distributed to multiple users as necessary. Updates are also provided at no cost to registered customers at the LEIGHTRONIX online Support Center.



Import digital video directly from DVD for playback on the NEXUS.



Automatically back up system and digital media files to a local or network location with Total Backup.

### Multi-Channel, Multi-System Control

WinLGX is a one-stop application that offers simple channel expansion, allowing users to easily operate up to eight LEIGHTRONIX digital video servers and system controllers from one interface. With up to eight NEXUS or UltraNEXUS servers, users have 16 channels of digital video playback at their command. Users just click on the controller tabs displayed across the top of the WinLGX scheduler to access separate schedule windows for each of their LEIGHTRONIX digital servers/controllers. The WinLGX scheduler also allows users controlling larger routing switchers to automate 16 channels per switcher for even greater system control.

### **DVD** Import

For programming received on DVD, TOTAL IMPORT allows you to maintain an all-digital workflow. Simply place the DVD in your PC drive and TOTAL IMPORT reads and converts the DVD video for storage and playback on the NEXUS. TOTAL IMPORT combines multiple video object files (VOB) into a single, contiguous MPEG file ready for immediate playback. The TOTAL IMPORT software utility is included free of charge with the NEXUS.

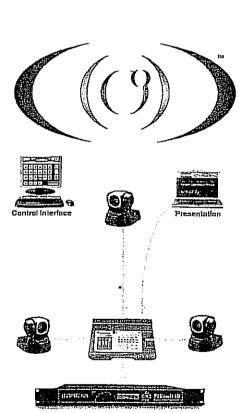
### **Automatic System Backup**

Schedule automatic system data and media backups at regular intervals using the Total Backup application. Simply point to a local or network drive and indicate how often and at what time regular backups should occur. System backup is performed as a low-priority background task and does not impact your on-air operations.

# Remote Recording



leightronix.com/pegvault-sd



leightronix.com/polyoptix

The PEGvault-SD captures video/audio from a live feed, VCH, or any other source you want to record and produces high quality digital media files for playback on broadcast, cable, and streaming video-on-demand systems.

Push button recording and preset encoding parameters simplify the process of capturing video while hardware-based, superior MPEG encoding technology ensures consistent, and top-quality results every time.

When you are done recording, the PEGvault-SD automatically transfers digital media files to a pre-assigned video server of your choice, including NEXUS series video servers and PEG Central®, the Web media hosting and streaming video-on-demand service from LEIGHTRONIX.

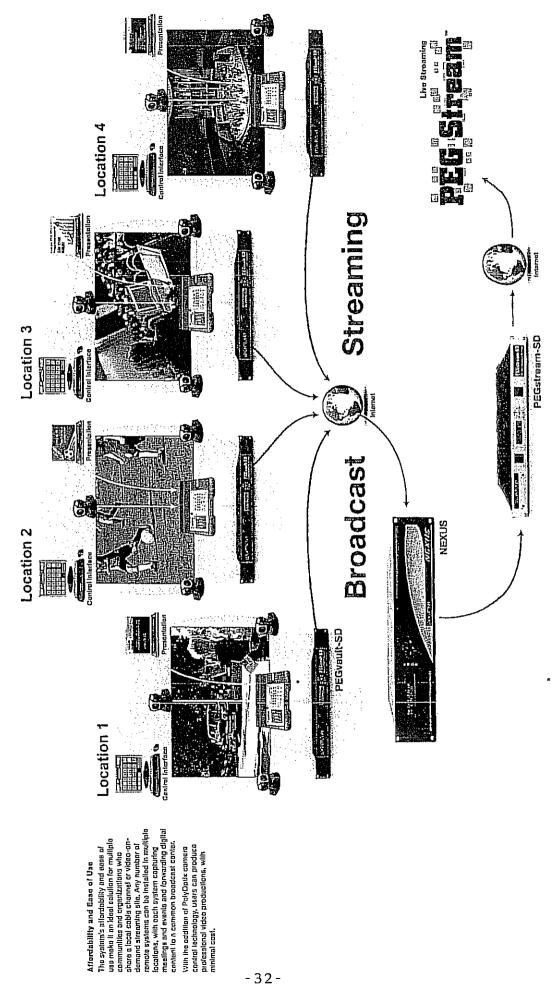
install the PEGvault-SD anywhere you need it and automatically transfer the digital files to your playback site's location.

### **PolyOptix Camera Control Technology**

Record any event with consistent, broadcast quality results with PolyOptix<sup>™</sup> Camera Control Technology. Combined with the PEGvault-SD digital video encoder, this solution allows a single operator to easily manage a live, multicamera production, recording an event from multiple vantage points with professional, broadcast quality results.

PolyOptix was designed for government agencies of all sizes, educators, and any other organization seeking a compact, all-in-one system for event capture. Ideal for capturing public meetings, fine arts concerts, local sporting events, or any other event that requires multiple camera angles to capture all the action from multiple vantage points.

# Multi-Community Contribution



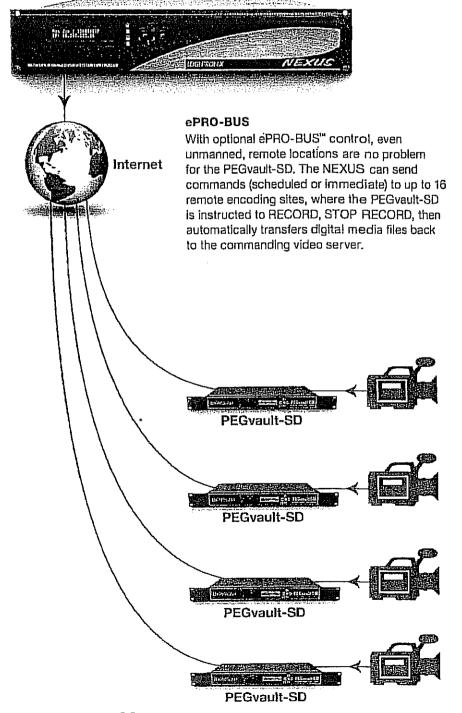
With the addition of PolyDpilk comera

Affordability and Easo of Uso

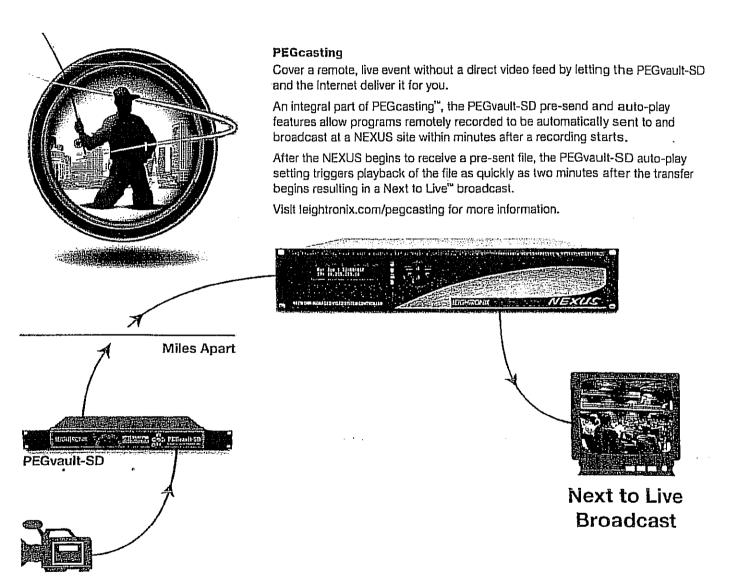
# Remote Recording Control

### **Multi-Site Remote Recording**

- Scheduled and immediate recording control for up to 16 remote sites
- Content is automatically transferred from all active sites to the host NEXUS server
- Files are transferred, not streamed, maintaining high-quality digital media suitable for rebroadcast



# Remote Broadcasting



leightronix.com/pegcasting

# Live Streaming



Simply connect the output from a LEIGHTRONIX broadcast video server or any other live video/audio source to the PEGstream-SD™ and you're ready to deliver your programming live over the Internet. The PEGstream-SD live streaming encoder captures your video feed in real time and sends it out as a single digital video stream directly to PEG Stream™, the online live streaming service. World class servers receive and replicate the stream, accommodating online viewers both locally and worldwide. Together, the PEGstream-SD and PEG Stream ensure a high quality viewing experience while alleviating any potential strain on your local network.

The PEGstream-SD is designed for smart integration with LEIGHTRONIX NEXUS series video servers. The PEGstream-SD is capable of receiving commands on the fly to adjust stream bit rates and can even block and substitute video content not approved for Webcasting.

Visit leightronix.com/streaming and learn how you can experience the seamless integration of broadcast and Web-based media.



# Typical System Diagram

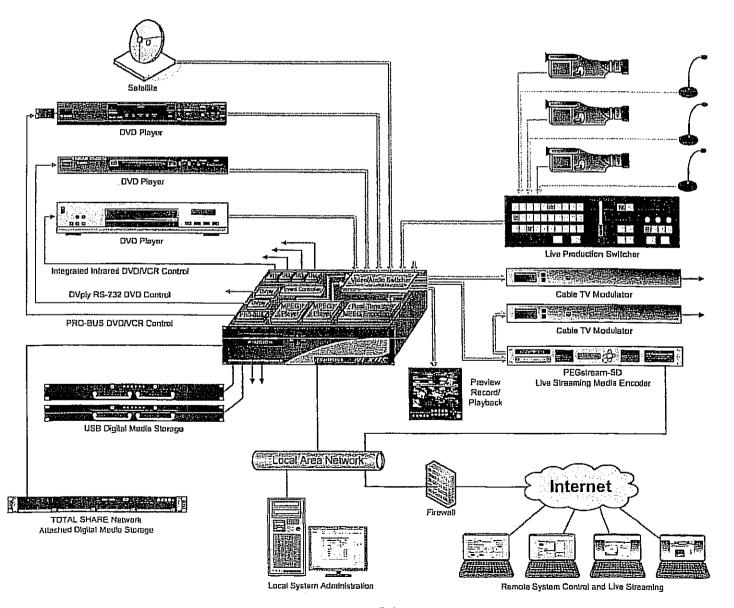
# Key: Composite Video Analog Audio (fine level) Analog Audio (microphone) Network

→ Integrated IA → Cable TV

→ USB → PRO-BUS

+ DVply

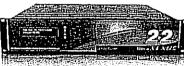
A true station-in-a-box, the NEXUS is equipped with everything necessary for successful unattended broadcasting. Need more inputs and outputs? The NEXUS is capable of interfacing with and controlling video/audio routing matrices with up to 32 inputs by 32 outputs from select manufacturers. Visit leightronix.com/nexus for more system diagrams featuring external routing switcher control.



# Video Server Comparison

The NEXUS series all-in-one video server/station automation solutions share many common features and functions. These unique products offer varying levels of performance and system control capabilities, including digital video playback and recording, device control, video/audio routing, and compatibility with LEIGHTRONIX live and VOD streaming services. Use the following table to compare features and find the best LEIGHTRONIX video server solution for you.







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\$9,495,00	\$11,495.00	\$13,995.00		
2 Digital Video Playback Channels 1 Digital Video Record Channel for Broadcast	2 Digital Video Playback Channels 1 Digital Video Record Channel for Broadcast 1 Digital Video Record Channel for Streaming Video-on-Demand (VOD)*			
Up to 5TB HAID Storage (1TB USB and 4TB NAS with TOTAL SHARE")	Up to 20TB RAID Storage (4TB USB and 16TB NAS with TOTAL SHARE)			
Not Available	Automatic Transfer of Digital Media Files to LEIGHTRONIX Streaming VOD Service: PEG Central <sup>®</sup> , Schoolstream.TV <sup>®</sup> , or Worshipnel.TV <sup>®</sup>			
Smart Streaming Integration with LEIGHTRONIX PEG	- Sstream-SD™ Live Streaming Media Encoder and PEG	Stream" Live Streaming Service		
2 Digital Video Messaging Channels 2 Digital Video Overlay Channels				
2,000 Video Silde Capacity, Online Silde Managemer Display, and Online Emergency Messaging Creation	nt and Creallon, Text and Graphic Overlay for Digital N	dedia, Onscreen and Online Dynamic Schedule		
Browser-Based Slide Editor Included	Advanced, Browser-Based Slide Editor: Multi-Layer Support, Web Cam Photo Capture and Import, Multiple Font Effects, Powerful Graphic and Text Filters, Drawing Tools, Graphic Library			
Optional TOTAL INFO®: News, Local Weather, Sports, Financials, Metro Traffic, Dailles	TOTAL INFO First Year Included: News, Local Weather, Sports, Financials, Metro Traffic, Dailies			
Not Available	Zoned TOTAL INFO: Dynamic, Muill-Zone Display Consisting of a Primary Playback Window for Digital Video and Video Stide Shows Complemented by TOTAL INFO Local Weather and a User-Selected Rotation of TOTAL INFO News, Sports, Financials, Metro Traffic, and/or Dailies			
Control up to 22 VCR/DVD Players (Standard and Op	olional Control), ePRO-BUS" Control for Remote PEG	vault-SD* Olgital Video Encoders		
Composite Video (BNC), Two Channel Audio (RCA)		SD-SDI Video In/Out, Support for Embedded, Digital (AES), and Analog Audio In/Out		
Internal 8 x 4 Video/Audio Routing Switcher, Control for External Routing Switchers (32x32)**	Internal 8 x 4 Video/Audio Routing Switcher, Control for External Routing Switchers (250x250)**	2 Record Inputs, 2 Playback Outputs, Control for External Routing Switchers (250x250)**		
WinLGX™ Network Management Application: Syst Schedules, System Data, and Digital Media; Tota	em Control, Scheduling, Media Management; Tota Import" DVD Import Utility	Backup™ Automated Backup Utility for		
WebNEXUS" Web Interface: System Monitoring, ( WebNEXUS Mobile" Remote System Access and	Online Slide Creation and Management, Emergency Control using Select Electronic, Handheld Devices	y Messaging, Virtual Channel Configuration,		
FREE Telephone Support FREE Live Desktop to Desktop Support via WebEx <sup>a</sup> FREE Emall Support and Dedicated Support Center	Web Site: www.sunnortcenter.lelohtronix.com			
	2 Digital Video Playback Channels 1 Digital Video Record Channel for Broadcast  Up to 5TB HAID Storage (1TB USB and 4TB NAS with TOTAL SHARE")  Not Available  Smart Streaming Integration with LEIGHTRONIX PEO 2 Digital Video Messaging Channels 2 Digital Video Messaging Channels 2 Digital Video Overlay Channels 2 Digital Video Slide Capacity, Online Slide Management Display, and Colline Emergency Messaging Creation  Browser-Based Slide Editor Included  Optional TOTAL INFO®: News, Local Weather, Sports, Financials, Metro Traffic, Dailles  Not Available  Control up to 22 VCR/DVD Players (Standard and Optional B x 4 Video/Audio Routing Switcher, Control for External Routing Switchers (32x32)**  WinLGXI** Network Management Application: Syst Schedules, System Data, and Digital Media; Total WebNEXUS Mobile** Remote System Access and FREE 5 Year Parts and Labor Warranty with Priority FREE Live Desktop to Desktop Support via WebExal FREE Email Support Center	2 Digital Video Playback Channels 1 Digital Video Record Channel for Broadcast 1 Digital Video Record Channel For Streaming Video Record Channel For Streaming Video Record Channel Files to Leighting Schoolstream Tv*, or Worshipnel. Tv*  Smart Streaming Integration with LeiGHTRONIX PEGStream-SD* Live Streaming Media Encoder and PEG 2 Digital Video Record Channel Files to Digital Media Encoder Record Channel Files to LeiGHTI Schoolstream Tv*, or Worshipnel. Tv*  2 Digital Video Record Channel Files to Digital Media Encoder Record Channel Files to LeiGHTI Record Tv*  3 Digital Video Record Channel Files to Digital Media Files to LeiGHTI Record Tv*  4 Automatic Transfer of Digital Media Encoder and PEG 2 Digital Video Record Channel Files to LeiGHTI Record Tv*  4 Available Encoder and PEG 4 Advanced, Browser-Based Silde Editor. Multi-Layer Multiple Font Effects, Powerful Graphic and Text File 4 Advanced, Browser-Based Silde Editor. Multi-Layer Multiple Font Effects, Powerful Graphic and Text File 4 Advanced, Browser-Based Silde Editor. Multi-Layer Multiple Font Effects, Powerful Graphic and Text File 5 Vear Parts and Labor Warranty with Priority Service  2 Digital Video Record		

VOD recorder requires a USB hard drive in addition to either a standard USB hard drive or expanded (NAS) media storage.

<sup>\*\*</sup> AS-232 Interface cables for PRO-161M/NET-1641M, AUTOPATCHIM, KNOX, KRAMER, LEITCH®, PESA, SIGMA, and TEQ GEAR routing switchers are included. EXTRON® and SIERRA routing switchers are also supported. Visit leightronix.com/routersupport for a complete list of supported routing switchers.

# **Technical Specifications**

- Dimensions: two standard 19" rack units with overall dimensions of 3.50"H x 19.00"W x 15.00"D
- Weight: 15 lbs.
- Network Port 1: eight-position/eight-conductor RJ-45 modular jack, 10/100/1000BASE-T Ethernet, TCP/IP, user-configurable IP address, subnet, and gateway
- Network Port 2: elght-position/eight-conductor RJ-45 modular Jack, 10/100/1000BASE-T Ethernet, dedicated port for use with the TOTAL SHARE option
- Display: 2 x 24 character vacuum fluorescent display
- Keyboard: keypad with four push buttons for password-protected front panel status and configuration
- Internal Clock: battery-backed time and date, temperature compensated crystal oscillator for high accuracy
- Video Standard: NTSC, standard definition, 4x3 aspect ratio
- Video Encoding: MPEG-2, full D1 and half D1 resolution, 1.5-10Mb/s variable bit rate encoding, 3-8Mb/s constant bit rate encoding
- Video I/O: 6 BNC video inputs, 3 BNC video outputs, NTSC composite video 1V P-P, active switching, unity gain
- Audio Encoding: MPEG-1 layer II, 44.1K and 48K sampling rates, 192Kb/s to 256Kb/s audio bit rates
- Video/Audio Recording Capacity: maximum Individual MPEG program length of 23 hours, 59 minutes
- Standard Digital File Storage: external hard drive, 4 USB 2.0 ports, 1 terabyte maximum total storage
- Expanded Digital File Storage: expanded storage capacity with TOTAL SHARE option, 4 terabytes maximum total storage (in addition to standard storage)
- Infrared Control Ports: 4 mini-jack device control ports
- PRO-BUS: six-position/six-conductor modular jack, LEIGHTRONIX proprietary interface control bus
- . DVply: 2 DB9M RS-232 device control ports
- Power Input: three-position IEC power input with removable power cord
- Power Supply: internal, accepts 90 to 264VAC @ 47 to 63Hz
- Product Safety: Certification by ETL Semko for U.S. Standard(s) for Audio, Video & Similar Electronic Apparatus. (UL-60065) and Canadian Standard(s) for Safety Requirements for Audio, Video & Similar Electronic Apparatus (CAN/CSA-C22.2 No. 60065)
- Compliance: FCC Part 15
- Digital Media Licensing: Ilcensed under MPEG LA® LLC's MPEG-2 Patent Portfolio
- · Warranty: 5 years, parts and labor





# Support and Warranty

At LEIGHTRONIX we understand that your success depends not only on the products you choose but the support that accompanies it. That's why we back our products with an amazing 5 year hardware and software warranty, and free support for the life of our products.

#### **Support Center**

Register your products and gain convenient access to the LEIGHTRONIX Support Center resources and learning tools. Everything in our Support Center, including software and firmware updates, training videos, manuals, tutorials, and more, is FREE.

#### Live, Online Support

Interact directly with a LEIGHTRONIX technical support representative live via the Internet through WebEx®, a software sharing application. WebEx® allows you and the representative to share desktop views and transfer PC control between one another.



At LEIGHTRONIX, over 30 years of experience and expertise gives us the confidence to back up our products with a 5 year warranty and the best factory support in the industry.





# **NEXUS Customers**



#### Proven Success - Don't just take our word for it

Head to leightronix.com/customers to view these and more customer success stories with exclusive video interviews.

The key thing for me as a teacher is that I want to spend less time worrying about technical issues and more quality one-on-one time to instruct my students. That's really where the NEXUS has come in handy for me.

- Ryan Bandy

Read the rest of Ryan's story at leightronix.com/chatham

I got recommendations to use the NEXUS from people in the industry that I both admire and respect, so word of mouth was a strong force in making a decision. I'd definitely recommend the NEXUS to any government agency.

- Nathan Snook

Read the rest of Nathan's story at leightronix.com/fortbenning

The NEXUS has reinvented our workflow on Channel 16. The NEXUS has changed every aspect of our operation from the amount of programming we are able to produce, to how we get that programming on air. 33

- Matthew Brandimarte

Read the rest of Matthew's story at leightronix.com/oakpark

# **About LEIGHTRONIX**

LEIGHTRONIX is recognized as an industry leader in specialty video equipment design and manufacturing, including digital video solutions, television automation, live and video-on-demand streaming media, and remote equipment control. A model of stability and longevity in the quickly evolving professional video market, LEIGHTRONIX continues to set standards in product value and versatility that exceed customer expectations in both product performance and support.

Exceptional product reliability, a standard 5 year warranty, and costfree technical support have made LEIGHTRONIX a leading innovator of specialized video solutions for over 30 years.

# Kramer: VP-728 (no spec sheet available) copy paste:

INPUTS:	4 universal Y/CV, Pb/C, Pr (composite, s-Video and component) 1 Vpp/75Ω on RCA connecto 2 UXGA on a 15-pin HD connector (VGA through UXGA); 2 HDMI connectors; 1 USB connector; For each universal input there is a corresponding (unbalanced) audio stereo input (1V nom/25) minimum) and digital stereo S/PDIF input (32kHz to 96kHz sample frequency/75Ω) on RCA connectors; For each UXGA input there is a corresponding (unbalanced) audio stereo input on a 3.5mm mi lack connector.
оитритѕ:	1 HDMI connector; 1 UXGA format on a 15-pin HD connector; 1 unbalanced audio stereo output (1V nom/50Ω) on RCA connectors; 1 digital stereo S/PDIF output (32kHz to 96kHz sample frequency/75Ω) on an RCA connector.
COMPLIANCE WITH HDMI STANDARD:	Supports HDMI and HDCP.
OUTPUT RESOLUTION:	Native HDMI, 640x480x60Hz, 640x480x75Hz, 800x600x50Hz, 800x600x60Hz, 800x600x75Hz 1024x768x50Hz, 1024x768x60Hz, 1024x768x75Hz, 1280x768x50Hz, 1280x768x60Hz, 1280x720x60Hz, 1280x800x60Hz, 1280x1024x50Hz, 1280x1024x75Hz, 1366x768x50Hz, 1366x768x60Hz, 1400x1050x50Hz, 1400x1050x60Hz, 1600x1200x50Hz, 1600x1200x60Hz, 1680x1050x60Hz, 1920x1080x60Hz, 1920x1200x60Hz, 480px60Hz, 576px60Hz, 720px50Hz, 1080ix50Hz, 1080ix50Hz, 1080px50Hz, 1080px50Hz, 1080px50Hz, 120x1080x59,94Hz, 1280x720x59,94Hz, 1920x1080ix59,94Hz, 1920x1080x23,98Hz, 1920x1080x29,97Hz, 1920x1080x59,94Hz or custom.
CONTROL:	Front panel buttons/OSD, IR remote control, RS-232 on a 9-pin D-sub connector.
ADDITIONAL CONTROLS:	Picture-In-Picture: Video-in-Graphics (or vice versa), Picture-and-Picture or Split Screen (tw. images side-by-side), freeze, zoom, different selectable vertical refresh rates, video and audic ProcAmp control, output image scaling and aspect ratio change, EDID capture, text overlay, sli show.
POWER CONSUMPTION:	100-240V AC, 50/60Hz, 30VA automatic power supply.
DIMENSIONS:	19" x 9.3" x 1U W, D, H, rack mountable.
WEIGHT:	3kg (6.6lbs) approx.
ACCESSORIES:	Null-modem adapter, rack "ears", IR remote control, 2 sets of C-SF/2RVM-0.5 cables, power cord, control application program via RS-232 (PC) and via Ethernet (i-Phone® and PC).

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LEIGHTRONIX MINI-T-NX

Everyone can go digital with the MINIFIENX; the low-cost automation solution.

Affordable + Versatile + Reliable

Cable and Broadcast Solutions

LEIGHTRONIX, INC.

Video Servers - Television Automation



Low-cost digital playback solutions have never offered as much in functionality or performance as the MINI-T-NX. In one compact box, the MINI-T-NX provides everything you need to bring digital video to your television operation. including an MPEG-2 video/audio server, dynamic video messaging, DVD/VCR control, and video/audio switching. Now even those with limited equipment budgets can go digital with the MINI-T-NX.

#### MIDEO SERVER AND VIDEO MESSAGING

#### Digital Video Playback

High-quality digital video/audio playback is assured with the MINI-T-NX. The MINI-T-NX server uses a professional hardware MPEG decoder to repeatedly provide smooth and consistent digital video playback.



#### Digital Video Recording

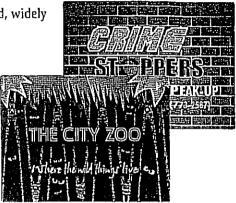
The built-in, hardware-based digital video encoder produces industry-standard, widely compatible MPEG-2 digital media files.

#### Internal Hard Drive Storage

The MINI-T-NX also has your digital media storage needs covered. Equipped with a 250 gigabyte internal hard drive, you can upload hundreds of video clips and programs directly to your MINI-T-NX. File transfers are fast and efficient, as the MINI-T-NX has a high-speed Ethernet port that can be connected to local or remote wide area networks.

#### Integrated Digital Video Messaging

The server's MPEG decoder performs double duty, displaying digital slides as well as videos. Easily fill gaps betweens programs and strategically place messages, including program introductions, station information, and local events. The MINI-T-NX uses common JPEG images, allowing you to create your own slides with any third-party graphic program.



Complement program playback with digital video messages.

#### WITH GX MANNA GEMENTES OF THY A REPORT OF THE PROPERTY OF THE

Included with the MINI-T-NX, WinLGX™ simplifies the task of organizing and controlling your automation system. The WinLGX media resource library holds all of your mixed media formats, including digital video files (MPEG), DVD programs, videotape titles, and video slides.





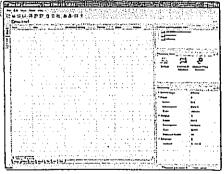








Creating playback schedules is fast and easy as you simply drag and drop resources from your media resource library into the scheduler. In addition to being quick and convenient, the WinLGX scheduler is nearly goof-proof. WinLGX performs error checking every time you add a program to the scheduler, instantly reporting any scheduling conflicts.



WinLGX main window allows you to manage system configuration, library media, and scheduling.

No need for a license with WinLGX. WinLGX is provided with the MINI-T-NX free of charge and may be copied and distributed to multiple users. Updates are also provided at no cost to registered customers via a secure FTP server.

### THY ISO INVARIABLE OF MONSTRATIONS IN

Contact the LEIGHTRONIX Sales Department to schedule a live WinLGX software demo via WebEx.



www.leightronix.com

(800) 243-5589

#### HINDERNA BYIDTEO/AUDIOTROUDINGSWINGHER

The MINI-T-NX has an integrated video/audio routing switcher, allowing you to easily integrate a variety of video/audio sources into your playback system. Seven external video/audio inputs allow you to select studio or satellite feeds. DVD players, VCRs, and other external video/audio resources manually or through pre-programmed events. Without interfering with on-air playback, a special preview output allows convenient display on a monitor of any input's

programming. Users can manually start/stop MPEG file recordings based on the preview output display. The video detection feature continually monitors the output channel and automatically routes a default or user-defined input to the output if video is lost.



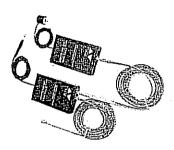
MINI-T-NX Rear Panel

#### DWDTPI AMER AND WGR GONTIROL WAS THE SECOND OF THE SECOND

Flexible as well as affordable, the MINI-T-NX can accommodate those legacy devices that many television operations still need. The MINI-T-NX offers basic, four-function control schemes for a variety of DVD players/recorders and VCRs.

To get you started right out of the box, the MINI-T-NX ships with two integrated IR transmitters on its rear panel and the corresponding IR cables. The IR transmitters provide PLAY-STOP-REWIND-RECORD capabilities for your basic device control needs. Just plug the cables into the IR ports on the MINI-T-NX's rear panel and connect to your choice of many compatible VCRs and DVD players.

Expanding your basic control options, the MINI-T-NX also comes equipped for the optional PRO-BUS<sup>TM</sup> device interface control scheme. Setup is as simple as attaching PRO-BUS interfaces to up to eight of your devices and then connecting the interfaces in a daisy chain to the MINI-T-NX PRO-BUS port. PRO-BUS device interfaces are available with IR, wired, parallel, and serial connectors and can control hundreds of DVD players and VCRs.



PRO-BUS device interfaces are available for hundreds of DVD players and VCRs.

Aux Input IR DVD/VCR Control PRO-BUST DVD/VCR Cantro Internet

Until now, digital video at such a low price was unheard of for a complete playback solution. With an all-in-one design that includes MPEG digital video playback and digital video messaging, the MINI-T-NX makes it possible for everyone to join the digital revolution.

www.leightronix.com (800) 243-5589

# serving a wide range of applications

#### ESAMINES

#### Integrated Digital Video Server

- · One MPEG Playback (Decode) Channel
- · One MPEG Record (Encode) Channel
- ❖ Automated Total Backup™ of Digital Media and System Files
- : Internal, 250 Gigabyte Hard Drive Storage

#### Integrated Digital Video Messaging

- Import and Display Standard JPEG Images in Sync with Program Playback
- · Automatic Slide Shows
- Digital Audio Background

#### PRO-BUS Machine Control

- · Control for 8 DVD Players and/or VCRs
- Support for Infrared (Adhesive Ring), Wired (Mini-Plug and RCA-Plug), Parallel (Multi-Pin), and Serial (RS-422) Remotes

#### Two Integrated Infrared Transmitters

- · Control for Popular DVD Players and VCRs
- Includes IR Transmitter Cables

#### Internal Video/Audio Switcher

- \* 7 Inputs for External Source Switching
- Input 8 Internally Tied to the MPEG-2 Decoder
- One Program Output with Loss-of-Video Detection
- · One Record/Preview Output

#### Front Panel Configuration and Status

- · Set Network IP Address, Subnet, & Gateway
- ❖ Time/Date Display and Switcher Status

#### WinLGX Network-Management Software

- ❖ Local/Remote Access via TCP/IP Network
- Drag and Drop Event Scheduling with Error Checking and Conflict Reporting
- · Comprehensive Media Resource Library
- System Control Panel

Five-Year Warranty



#### 

- ❖ Dimensions—One standard 19" rack unit with overall dimensions of 1.75"H x 19.00"W x 8.25"D
- ❖ Weight— 8 lbs.
- Network—Eight-position/eight-conductor RJ-45 modular jack, 10/100BASE-T Ethernet, TCP/IP, user-configurable IP address, subnet, and gateway
- ❖ Display—2 x 24 character vacuum fluorescent display
- ❖ Keyboard—Keypad with four push buttons, password-protected front panel status and configuration
- ❖ Internal Clock—Battery-backed time and date, temperature compensated crystal oscillator for high accuracy
- ❖ Video Standard—NTSC, standard definition, 4:3 aspect ratio
- Video Encoding—MPEG-2, full D1 and half D1 resolution, 1.5-5Mb/s variable bit rate encoding, 1.5-4Mb/s constant bit rate encoding
- Video I/O—7 RCA video inputs, 2 RCA video outputs (program-preview), NTSC composite video IV P-P, active switching, unity gain
- ❖ Audio Encoding—MPEG-1 layer II, 44.1Khz and 48Khz sampling rates, 192Kb/s and 224Kb/s audio bit rates
- → Audio I/O—7 monaural RCA audio inputs, 2 monaural RCA audio outputs (program-preview), -10dBV unbalanced line level, unity gain
- ❖ Video/Audio Recording Capacity—Maximum individual MPEG program length 6 hours
- ❖ Digital File Storage—Internal 250 gigabyte hard drive
- ❖ Infrared Control Ports—2 mini-jack device control ports
- ❖ PRO-BUS—Six-position/six-conductor modular jack, LEIGHTRONIX proprietary interface control bus
- ❖ Power—12VDC regulated input with locking coaxial power connector, external AC power adapter accepts 100 to 240VAC 50-60Hz, AC power consumption 25 watts @ 120VAC
- ❖ Product Safety—Certification by ETL Semko for U.S. Standard(s) for Audio, Video & Similar Electronic Apparatus (UL-60065) and Canadian Standard(s) for Safety Requirements for Audio, Video & Similar Electronic Apparatus (CAN/CSA-C22.2 No. 60065)
- Compliance—FCC Part 15
- · Warranty—Five Years, Parts and Labor



sales@leightronix.com

www.leightronix.com

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Fax (517) 694-1600

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01/05/09

# AGENDA MEMO Administrative/Finance Committee

January 14, 2013

#### **Issue Statement**

Approval of an Ordinance reducing the number of Class K liquor licenses from three to two.

### **Background/History**

The City of Darien currently has three Class K liquor licenses available. One of the license holders, Smashburger, has closed, leaving one open. If the license is not eliminated, another business could apply for it.

If another business wants a Class K license in the future, an ordinance could be prepared for the creation of another license at that time.

### **Staff/Committee Recommendation**

Staff recommends approving this ordinance.

# Alternate Consideration

Not approving the ordinance would be an alternate consideration.

# **Decision Mode**

This ordinance will be on the January 21, 2013, City Council agenda for formal consideration.

### CITY OF DARIEN

# **DU PAGE COUNTY, ILLINOIS**

<b>ORDINANCE</b>	NO.	

### AN ORDINANCE AMENDING SECTION 3-3-7 OF THE DARIEN CITY CODE

### ADOPTED BY THE

MAYOR AND CITY COUNCIL

OF THE

CITY OF DARIEN

THIS 21st DAY OF January, 2013

Published in pamphle	et form by authority of
the Mayor and City	Council of the City of
Darien, DuPage Cour	rty, Illinois, this
day of	, 2013.

ORDINANCE NO
AN ORDINANCE AMENDING SECTION 3-3-7 OF THE DARIEN CITY CODE
SECTION 1: Section 3-3-7-11 of the Darien City Code, "Class K License," is hereby
amended to provide as follows [deleted language stricken]:
3-3-7-11: CLASS K LICENSE:
(C) The number of class K licenses shall be three (3) two (2).
SECTION 2: This Ordinance shall be in full force and effect from and after its passage and
approval, and shall subsequently be published in pamphlet form as provided by law.
PASSED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE
COUNTY, ILLINOIS, this 21 <sup>st</sup> day of January, 2013.
AYES:
NAYS:
ABSENT:
APPROVED BY THE MAYOR OF THE CITY OF DARIEN, DU PAGE COUNTY,
ILLINOIS, this 21 <sup>st</sup> day of January, 2013.
KATHLEEN MOESLE WEAVER, MAYOR ATTEST:
JOANNE RAGONA, CITY CLERK
APPROVED AS TO FORM:

CITY ATTORNEY