SOLE SOURCE DETERMINATION

The Purchasing Division has been requested to approve a sole source purchase for the commodity or service described below. Pursuant to West Virginia Code 5A-3-10c, the Purchasing Division is attempting to determine whether the commodity or service is a sole source procurement. If you believe your company meets the required experience and qualification criteria stated below, please e-mail the Purchasing Division at team@wvadmin.gov to express your interest in the project. Please forward any and all information that will support your company's compliance with required qualification and eligibility criteria along with any other pertinent information relative to this project to the Purchasing Division no later than 8/11/2006.

Requisition Number: HHR70052

Department/Agency: DHHR/Central Facility Management

Detailed Description of Project: To provide all material required for an update of the security system housed at 350 Capitol Street, Charleston, WV, per the attached specifications.

Proposed Sole Source Vendor: Buchanan Sound

Specific Eligibility Criteria: Must be compatible with the existing Nexwatch/Prowatch Card Access/Security and Photo ID System and add CCTV DVR recorders, per the attached specifications.

Specific Qualification Criteria: Must be able to utilize the maps within the existing card access system and the video management software. Must be an authorized dealer and have factory trained and certified technicians to make the installation, do the interface, and do the programming to maintain the integrity and warrant of the existing software hardware.

BUCHANAN SOUND & ELECTRONICS, INC.

INTEGRATED TECHNOLOGIES GROUP

420 16th Street - P.O. Box 307 - Dunbar, WV 25064 - Phone: 304-766-7444 - Fax: 304-766-8319

To: DHHR
Attn: GREG NICHOLSON

Phone: **Fax:**

Proposal ID: BSEQ4460
Date: 07/05/06
Terms: See Below
Sales Tax: Not Included
FOB: Included
Expires: 30 Days

Project: REVISED PROPOSAL WITH CURRENT PRICING AS OF 7-1-06.

In response to our meeting and demonstraction, we would like to provide the following price (proposal) for upgrading from VCR recording to DVR/DVD recording, with interfacing to the existing Nexwatch/Prowatch Card Access Software to enable video pop-up recognition and identification, with alarm functions, utilizing maps within the Existing Card Access System and the video management software.
See the DVR/DVD Specifications attached, which becomes a part of this proposal.
Buchanan Sound is an Authorized Dealer and has factory trained and certified technicians which is a requirement for making the installation, interface, programming to maintain the integrity and warranty of the existing software/hardware.

We are providing a break out of the material price and labor price, but we are unable to provide an itemized, piece for piece pricing. However, the average price for each of the sixteen channel, 500 GB, 240 IPS. DVR's with CD-RW, including software, which is provided in each unit from the factory is each.

Qty	Manufacturer	Part Number	Description
			Material Required for update of system from VCR to DVR/DVD and interface with existing Nexwatch/Prowatch Card Access Software/Hardware.
5	Nexwatch	BSEDVR16240	Digital Recorder, 16channel, 500 GB (240 IPS) with CD-RW
1	Nexwatch	BSEDVD16240	Digital Recorder, 16 channel, 500 GB (240 IPS) with DVD Burner.
1	Nexwatch	BSENWVMS	Video Management Software
1	Nexwatch	BSENWINTF	Prowatch software interface, programming
3	Nexwatch	BSENW19AV	19 " FLAT PANEL LCD AGN/PRO
3	Nexwatch	BSENWWM-02	WALL MOUNT KITS
1	BSE	LOT	MISC. HARDWARE, UPS BACK UP UNITS, CONNECTORS AS REQUIRED.
1	BSE	LOT	TECHNICAL SERVICES, LABOR, PROGRAMMING, HOOKUP, TESTING, AND TRAINING WITH STANDARD MANUACTURERS WARRANTY ON ALL NEW EQUIPMENT.

Terms: net 30 days.
Warranty: Standard Manufacturers warranty shall apply, no freights included for factory warranty.
Freight : All new equipment, freight Included.
Note: DHHR "IT" department to provide all wireless equipment, installation of same, with assignment of all address and assist in bringing all new equipment on line.
Note: DHHR to provide the "computer" for the video management software.
Should you have questions please call us at any time.

Sincerely,

David L. Walls

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NEXWATCH VIDEO SYSTEMS DIGITAL RECORDING AND TRANSMISSION SYSTEM

The intent of this document is to specify the minimum criteria for the installation, and commissioning of the Digital Recording and Transmission system.

SUMMARY

The World Class Digital Recording and Transmission system shall offer the latest in digital technology, providing unparalleled stability, security, and ease of use, with advanced algorithms, fast capture rates, and a unique, flexible Graphical User Interface (GUI).

REFERENCES

A. (UL) CANADIAN ICES-003
B. ELECTRONIC INDUSTRY ASSOCIATION (EIA)
C. NATIONAL TELEVISION SYSTEM COMMITTEE (NTSC)
D. UNDERWRITERS LABORATORIES

DEFINITIONS

No Substitutes: The exact make and model number identified in this specification shall be provided without exception to enable seamless interfacing with existing Prowatch Corporate Card Access Software.

SYSTEM DESCRIPTION

The World Class Digital Recording and Transmission system shall offer the latest in digital technology, providing unparalleled stability, security, and ease of use, with advanced algorithms, fast capture rates, and a unique, flexible Graphical User Interface (GUI). The combination of multiplexing, motion detection, audio, text insertion, image rates, mapping capabilities, and remote notification technologies shall provide an extremely flexible and reliable system.

SUBMITTALS

GENERAL: Submittals shall be made in accordance with the Conditions of the Contract and Submittal Procedures Section.

The NEXWATCH Digital Recording and Transmission System shall utilize the same user interface, regardless of platform, offering compatibility across the entire series. The Digital Recording and Transmission System shall be designed as a security tool to prevent fraud, theft, and general abuse.
The user must have the ability to view the recorded details both locally and remotely. The digital recording and Transmission System shall also interface with existing Nexwatch/Prowatch corporate Software recording all the video details. The Nexwatch Digital Recording and transmission System shall consist of a digital remote video software, and video management software. The DVR shall be compatible with Local Area Networks (LAN) such as Ethernet, and shall be optimized and designed for Microsoft Windows 2000, offering unparalleled stability, security, and ease of use, allowing the user to fully create and edit all network settings available with windows 2000. To ensure a system will be available for almost any application, the digital server must be offered in a sixteen 16) input digital server shall utilized Motion JPEG (MJPEG) image compression, and shall allow the user to adjust the resolution, quality, sensitivity, and number of images per second each camera will record. These adjustments shall be configurable per video input. The digital server, regardless of number of inputs, shall offer Gigabyte on board storage hard drive capacity. All hard disks shall be enclosed in a front loading externally removable and locking drive bay system that includes adequate activity lights and an independent cooling system. The digital server shall have 256 MB of system memory, and the processor shall be a minimum of an Intel Pentium IV. An internal 10/100 Network Interface card (NIC) and a 32 MB video card shall be standard.

The operator shall have the ability to search for a video segment based upon more than fifty (50) default action codes. These codes can be further divided into two (2) groups, critical and Non-Critical codes. The user must also have the ability to create a unique set of critical action codes based upon the application requirements. The operator shall also have the ability to search for a video segment based upon Key Items. The digital server shall have the ability to easily backup important video to an internal or external media location, or an attached network storage device. The unit must not stop recording during the backup process, and to ensure the integrity of data, the digital server shall use a proprietary compression format that can only be read by the digital server's backup program; no other viewer can read the video. When backing up the video to CD, the unit shall include the ability to record the video on to multiple CD's, automatically prompting the user to insert the next CD when the previous CD is full. The digital server shall include backup viewer software, allowing the user to playback the exported video in its proprietary format on a PC. The backup viewer must have essentially the same search features as the digital server's software. The digital server shall use the Direct DC software suite, allowing the unit to use a CD-RW just as it would any other drive attached to the unit. The Direct DC software suite shall be included with all units. The digital server must include a CD-RW recorder in five units. DVD R/RW recordable drive must be provided in the sixth DVR allowing for up to 4.7 Gigabytes of video data to be stored on the DVD. An optional USB hard drive must be available from the manufacturer of the digital server to facilitate extracting large amounts of video data. The drive must connect to a USB port on the digital server or can be attached to any computer with a USB port. An optional TV Out card must be available from the manufacturer of the digital server to provide four analog video outputs on the back of the unit. The outputs shall be programmable to sequence through any number of cameras, and the operator shall have the ability to temporarily stop the defined sequence and manually select a camera to the output.The

sequence must be easily reactivated by simply enabling the sequence again. The digital server must included an Alarm log to record and display information pertaining to alarm events, an Event log to record and display information pertaining to user loins, digital server reboots, and other related information, and a System log to record/display hardware information pertaining to scan disks, system recording successes and failures, and other related information. The user shall have the ability to export the log information in on (1) week increments. The digital server shall include a User Management console, which allows the user to create, edit, and delete user accounts. Each account can be assigned different privileges that limit the usage of the system. The digital server shall include a hidden camera feature, which allows an administrator to hide certain cameras from a user. The camera must still be recorded, but the user will not be able to view the cameras in live or search mode. A Gigabit 10/100/1000 network interface adapter shall be available from the manufacturer to transfer data up to ten times faster than the standard fast Ethernet Network Interface Card (NIC) included with the digital server, and a Fiber Network Adapter shall be available for use in enterprise network environments where large amounts of data are transferred across the LAN. The sixteen (16) input digital server shall include sixteen (16) sensor inputs, for use with devices such as motion detectors, glass breakage alarms, door and window sensors, etc. The operator shall have the option of displaying a sensor status bar on the main display screen. The DVR shall include the capability of recording either two (2) or four (4) channels of "Line-In" type audio (depending on model). The digital server shall allow for user definable, descriptive camera names of up to fourteen (14) alpha-numeric characters. To optimize the clarity and detail of recorded video, the digital server shall have the ability to adjust each video input's brightness, contrast, and hue. The user must be able to easily return the video settings to the system's default, either individually or all at once, with a simple mouse click. The digital server shall incorporate advanced video motion detection, including the ability to create five (5) motion detection regions, with adjustable sensitivity, per video input, utilizing "click and drag" of the system mouse. Each region must be resizable by dragging the sides and/or corners, and the operator shall have the ability to move each region of displaying the associated video anywhere within the setup area. The user must be able to easily remove all motion regions from the setup area with a simple mouse click. When motion occurs in programmed detection region, a colored box shall be displayed on the main screen around the region where the motion occurred. The DVR shall include the ability for pre-alarm and post-alarm recording, which must record video for a specified time before and/or after a motion or sensor alarm has occurred. The time period must be selectable from one (1) to sixty (60) seconds, and must be individually programmable for both motion and sensor alarm inputs. The DVR shall incorporate a "Regular Interval Recording" feature, allowing the unit to record a single frame every few seconds, every few minutes, every few hours, etc... to show that the unit is still functioning even when motion is not taking place. The amount of time must be user programmable. This option shall only work when motion recording or sensor recording is selected. The digital server shall include intensive recording, which allows the programmer to increase the pictures per second and the resolution of any camera when a sensor alarm event occurs. When activated, the resolution of the remaining cameras not in alarm shall immediately be reduced to the lowest resolution setting, and the pictures per second rate set to the user-specified level. The operator must have the ability to specify the amount of time to keep the intensive recording function activated once an alarm has ended, and if additional alarm events occur, they must not replace the original alarm until it has been deactivated. The digital server must include a video loss alarm function to allow an alarm event to occur when a camera loses signal for any reason (e.g. power failure, cable

being cut, camera damage, etc.) When a video loss event occurs, the operator shall have the option to enable an alarm beep utilizing the internal speaker of the digital server, and/or activate an alarm output. The digital server must include emergency agent software to stream video across a LAN to a client PC when an alarm is detected on the unit. The operator shall have the ability to stop, play forward and backward, frame by frame or real speed, the video that streams across. The program shall automatically load at startup and appear in the taskbar. It must constantly monitor for a signal from the digital server, and when an alarm signal is detected, an emergency agent viewing window must open and start playing the video from the camera associated to the alarm. An alarm beep must also be activated to alert the user. The emergency agent image viewer shall also allow the user to search through past events that have been recorded on the client PC. To increase the amount of pertinent video that is saved by the digital server, and to keep it for a longer period of time, the operator must have the ability to utilize recording schedules. For general installations, pre-defined schedules with basic configurations shall be standard. Up to thirty-two (32) user-definable recording schedules to maximize the recording efficiency of the digital server must also be available. Each of the digital server's thirty-two (32) detailed customized schedules shall allow the operator to "link" camera(s) and relay output(s) activation to particular sensor input(s). The schedules can be activated by date/time, motion alarms, and/or sensor inputs. Advanced option must also be available that allows the user to send alarm events, either motion or sensor activated, to the remote emergency agent software or the video management software. Instant recording must be available to manually start a camera recording, superceeding the current schedule. This recording shall be started with a simple double left-click of the mouse on the desired video image, and the label "INSTANT" shall be placed on the upper right corner of the video. When this manual recording is activated, it must automatically flag the specific video so that an index search can be performed at a later date for easy retrieval. The digital server shall incorporate an internal RS-422/RS-485 adapter, with the ability to control multiple pan/tilt/zoom (PTZ) cameras. Depending on the model, control must include multiple pan, tilt, zoom, and focus speeds, iris control (including return to auto-iris), focus control (including return to auto-focus), programming presets, and viewing presets. When an operator places the mouse pointer directly over a preset, the associated preset title must be displayed on the screen. The digital server shall support most of the feature set and programming functions. The digital server shall support a minimum of thirty-five different protocols. The digital server shall include on-screen play controls to playback the recorded video frame by frame (either forward or reverse), or play at normal speed (either forward or reverse). An on-screen hour/minute slide control bar must also be available to allow the operator to select the hour and minute of the desired video. The slide bar must be controlled either by clicking and dragging the slider, or using the wheel on the manufacturer supplied mouse. The digital server shall offer on-screen brightness controls to brighten up an image to get more detail, zoom controls to allow the user to digitally zoom in on an image, and speed controls to increase or decrease the playback speed. When recording images with extensive motion using 720x480 resolution, the unit shall offer the option of interweaving two frames to create a smooth detailed image, alleviating the "digital blur" that can interfere with the quality of the video when recording high speed moving images. This feature shall be activated with a simple mouse click. The digital server shall include a time synchronization option, allowing a single channel of video to playback in real-time, regardless of the speed in which the video was recorded or the number of cameras playing a the same time. The digital server shall allow the operator to perform an index search based upon motion detection, sensor

activation, instant record events, greatly reducing the amount of time required to search through saved video. When searching events, the user must have the option of searching for a specific transaction. A simple double-click on any one of the search results shall retrieve the associated segment of video. The digital server shall include the ability to provide a twenty-from (24) hour visual overview of a single camera by separating a twenty-four (24) hour period into twenty-four (24) images, each representing the first second of each hour. The operator must then have the ability to further narrow the search down to ten (10) minutes and one (1) minute increments by simply double-clicking a displayed image. The digital server must allow the operator to specify a region on an image and perform a search based upon any motion that had occurred in that region. The search results must be displayed on a separate column, listed by date and time. A simple double-click on any one of the search results shall retrieve the associated segment of video. The digital server shall automatically adjust for Daylight Savings Time changes, with no loss of video when the hour jumps forward. When the hour falls back, the unit shall record both duplicated hours, and allow the operator to select which duplicated hour to play back. The digital server shall allow the user to print a recorded image to a local or network printer, utilizing the printing options of the available printer. The digital server shall allow for exporting single images in the JPEG file format, and saving video clips in AVI format. This shall allow compatibility with any PC that supports these file formats. The AVI setup must allow the user to enter a record duration and image quality setting. JPEG images exported from the digital server must be automatically watermarked to verify the authenticity of the image, and ensure they have not been tampered with or edited in any way. A watermark verification program must be supplied with the digital serve4r for installation on any computer. Using this program, the operator shall simply input the site code of the digital server that the image was originally extracted from, and presses verify. If the image has been tampered with, the program must draw a red square around the image and display the message "entire image changed" or "wrong site code". The digital server shall incorporate advanced hardware watchdog circuitry for unsurpassed system reliability. The remote viewing software shall allow a user to fully operate and maintain the digital server remotely, and must connect using standard TCP/IP protocol through connection types such as DSL, Cable Modems, T1, ISDN, LAN, or 56K dial-up connections. The remote software shall provide the user with most of the features and functions available at the local digital server. The remote features and functions must include viewing live video, searching through archived video, exporting images and video clips, and virtually all setup functions. The remote video software shall allow up to five (5) users to simultaneously connect to a single digital server. Each user can perform functions on the unit and not effect the other users. The unit shall only allow one user to access the setup and PTZ functions at any given time. To ensure that only authorized personnel are allowed to log in to the digital server, the remote video software shall utilize user accounts with assigned privileges, allowing or denying access to different functions. The video management software shall be a powerful utility that allows as many as one-hundred (100) digital servers to be connected simultaneously and controlled using one (1) computer. The video management software shall incorporate multiple screen divisions, allowing the operator to create several groups of cameras and customize the organization of the cameras. Each screen shall contain up to thirty-six (36) different cameras. The video management software shall include the ability to have multiple windows open at any given time. The organization of these windows shall be done using tabs, and the operator must have the ability to jump from one window to another by simply clicking on a given tab. The video management software shall also support the use of multiple monitors, allowing the user to

view multiple windows simultaneously. The video management software must allow remote audio on both live and retrieval modes. To allow users to quickly identify alarm zones and view the associated video, the software shall be capable of imported maps and associating cameras and sensors to locations on the maps, with the capability to import an unlimited number of maps. The video management software's network back up feature shall allow the operator to select the video to be saved and the location n of where to save it. The software must include a status bar to indicate the progress of the backup. The video management software shall have several options to allow the operator to search through and find a particular section of video. The options must include preview search, a search option that allows the user to narrow down recorded video in a 24-hour period, displaying one image for each hour of the day. When the image is selected, the hour chosen must then be broken down into six (6) images, one image for every ten (10) minute increment. When an image is again selected, ten (10) images are displayed, one for every minute within the ten (10) minute period. The selected image can then be applied to the main search. The video management software must allow the operator to export single images in the JPEG file format and save video clips in the AVI file format. This shall allow compatibility with any PC that supports these file formats. The video management software shall incorporate a log to keep track of when the software was opened and closed and who logged in and out. The software must also utilize an alarm log to allow the user to view different types of alarms coming into the system. Double clicking an entry must open a search window with the associated digital server, camera, and time related to the event. The video management software shall log all alarm events with the available associated video. Up to fifty of the most recent events shall be viewable as on-screen thumbnail images. The operator must have the ability to set the number of thumbnails and the display size. Up to nine display sizes must be available. The video management software shall include a health information window to view the health of units connected to the software. The window shall provide all the collected information related to the health of a unit at any given point of time. This information can be used to track data usage or monitor the stability of a unit over time to determine if components are in need of replacing before a critical failure. Upon a warning or failure of any of health attributes on the unit, the video management software must display an icon indicating the type of error that occurred. The Digital Recording and Transmission System shall be the Nexwatch Series.