



Webb County Purchasing Department
1110 Washington, Suite 101
Laredo, Texas 78040
Phone: (956)523-4125
Fax: (956)523-4150

Honorable Judge Joe Lopez, 49th Judicial District
Honorable Judge Monica Notzon, 111th Judicial District
Honorable Judge Beckie Palomo, 341st Judicial District
Honorable Rosaura Tijerina, Commissioner Pct. 2
Honorable Jaime Canales, Commissioner Pct. 4

Leticia Gutierrez, Interim Purchasing Agent

January 14, 2016

**Notice to Vendors
Addendum No. one (3)**

RFP 2016-53 Webb County Youth Village Surveillance Camera Project

Please be advised that the County of Webb has issued an Addendum for the above referenced Request for Proposals (RFP). The addendum is in regards to the specifications. Attached you will find additional specifications to better help you price this project. A final walk-through of the detention facility may be conducted by vendors on Wednesday, January 20, 2016 at 2:00 p.m. Please contact Mr. Rene Garcia or Mr. Jesus Del Toro (Project Supervisors) at 956-523-5675 to confirm or decline your attendance.

**Leticia Gutierrez
Interim Purchasing Agent**

Acknowledgement: _____
Of addendum (sign) _____ (date)

*****Signed Addendum must be included with the bid package**

Webb County – Youth Village Juvenile Building
Surveillance Camera System RFP Specification Sheet

Vendor is responsible for inspecting the facility to produce an accurate estimated cost of all labor, materials, warranties, supplies and all other necessary expenses.

All proposed substitutions of required/specified equipment and standards included in this Request for Proposal shall be equivalent in quality and must be documented as a substitution to that specific equipment.

Any supplies and materials not used shall be deducted from final price upon completion of the project.

Vendor is to consider all necessary hardware and/or software in order to integrate new surveillance camera system with existing touch panel, detention door locks, Intercoms and any pre existing features and functionality.

Additional Equipment and Services to be included:

***Vendor is to use tamper proof mounting hardware for installation.**

*** (Qty: 1) DIVAR IP 7000 2U – NETWORK VIDEO RECORDER (32 Channel Pre-Licensed)**

Specifications

System:

Processor – Intel Xeon Quad Core x3430 (2.4GHz, 8M Cache, 95W)

Socket : 1

Cache Memory: 1 x 8MB Level 2 cache

Memory Protection: ECC un-buffered

Front Side Bus: 1,333 MHz (maximum)

Configuration:

RAID Pre-configured in a RAID 5 standard configured with 7 LUNs

Bandwidth 200 MB/s

Modules 32+ BVIP modules

Memory

Minimum – 4GB, DDR3 -1333 ECC UNB (2x2GB)

Storage: Storage Type – 8 Trays: 3.5" SATA

Installed Hard Drives: 24TB, 8 x 3 TB SATA/300, 7,200rpm, 3.5"

Capacity: Net Capacity: 12930 GB

SAS Attached RAID Storage: 2,108 based SAS / SATA RAID card - 8 internal ports / low-profile PCI-E

Graphics Card: AMD FirePro V390 1GB, low-profile

OS DRIVE: Intel SSD 320 OVR, 80 GB (MLC)

System: Microsoft Operating System (MS Windows Storage Server 2008 R2) minimum and Bosh Video Management System v. 5.0 (minimum) (Perform upgrade to v. 5.5 if there are no compatibility issues.)

Mechanical

Form Factor: 2U Rack Mount

Power Supply: 720W Gold Level Redundant

USB ports: 4 x USB 2.0

Network: Dual Intel 82574L Gigabit LAN

*Estimate Bosch Video Management System v. 5.0 (minimum) or v. 5.5

***(Qty: 7) DIVAR IP Expansion Licenses 8 channels each**

Specifications:

(7) Bosh 8-Channel Expansion Licenses for DIVAR IP 7000 2U NVR
-Installation and configuration of licenses

***Configuration and installation of 3 viewing clients for the Bosch Video Mangement System.**

*** (Qty: 1) Bosch KBD-Digital Intuikey Series Keyboard (digital preferred)**

Specifications:

Signal Connectors: Mux/DVR Connector: RJ-11 x 1 (data and power)
Console Connector: 9-Pin Male D-sub

Protocols: Mux/DVR Signal

RS-485: 2-wire, 19,200 Baud, 8bits , no parity, 1 stop bit

Terminal Mode Signal: RS-232: 3 wire, 9600 Baud, 8 bits, no parity, 1 stop bit

Console Signal: RS-232 RTS/CTS handshaking, 19,200/57600 Baud, 8 bits, no parity, 1 stop bit

***(Qty: 5) LED Backlit Displays with Integrated Tuner (Preferred Model: NEC E425)**

Specifications:

Panel Technology: MVA

Viewable Image Size: 42 inches

Native Resolution: 1920 x 1080

Backlit Type: LED Direct-lit

Brightness (typical): 300cd/m²

Contrast Ratio (typical): 3000:1

Viewing Angle: 176 degrees Vertical, 176 degrees Horizontal

Response Time: 6.5ms

Refresh Rate: 60Hz

Aspect Ratio: 16:9

Active Screen Area: 36.6 x 20.6 in / 930.7x 555.2mm

Orientation: Landscape

Displayable colors: More than 16.7 million

Synchronization Range: 31-83 kHz- Horizontal & 50-75 Hz Vertical

Input Signal:

Video: Analog RGB 0.7 Vp-p/75Ohms

Sync: Separate Sync: TTL Level (Positive / Negative)
Composite Sync: TTL Level (Positive / Negative)
Composite sync on green: 0.3Vp-p 0.7Vp-p positive)

Input Terminals:

Digital - 3 HDMI (Minimum)

Analog – VGA 15-pin D-sub, RCA (Y, Cb/Pb, Cr/Pr) Component

Audio – HDMI Audio, Stereo mini-jack

External Control: RS-232C

Output Terminals: Audio – SPDIF

Built-in NTSC/ATSC (8-VSP, Clear QAM) analog/digital tuner

***(Qty: 70) Bosch Flexidome IP Outdoor 5000 Infrared Vandal-Resistant IP Dome Color Cameras Preferred model: Bosch F.01U.296.222**

Specifications

Sensor Type: 1/3" CMOS

Active Pixels: 2592 x 1944

Sensitivity: At 3200K, reflectivity 89%, F1.5, 30IRE
Color: 0.35 lux
Mono: 0.05 lux

Dynamic Range: 81dB WDR

Video Resolution:

5MP (4:3) 2592 x 1944

1 MP (4:3) 1440 x 1080

0.8MP (4:3) 1024 x 768

VGA : 640X480

QVGA: 320 x 240

Night Vision Distance: 50 feet

LED: 10 LED High efficiency array, 850nm

IR: Adjustable Intensity

Functionality

Day/Night: Color, Monochrome, Auto

Adjustable: Contrast, Saturation, Brightness

White Balance: 4 auto modes, manual mode and measure

Shutter: Automatic Electronic Shutter; Fixed (1/12 to 1/15000) selectable; default shutter

Backlight Compensation: On/ Off

Noise Reduction: Intelligent Dynamic Noise Reduction with separate temporal and spatial adjustments

Contrast Enhancement: On/ Off

Sharpness: Sharpness enhancement level selectable

Defog: Intelligent Defog automatically adjusts parameters for best picture in foggy or misty scenes (switchable)

Privacy Masking: Eight Independent areas, fully programmable

Video Motion Analysis: MOTION+ (preferred)

Misc. functions: image mirror, flip, pixel counter, video watermarking, display stamping, scene modes and location.

Optical

Lens Type: 3 to 10 mm Automatic Varifocal lens, IR Corrected, DC iris F1.3 – 360

Lens mount: Board mounted

Adjustment: Motorized zoom/focus

Iris Control: Automatic Iris Control

Day/Night: Switched Mechanical IR filter

Maximum Horizontal field of view: 27.8 degrees – 86.8 degrees / vertical: 20.8 degrees to 63.4 degrees

Input / Output

Analog Video Output: SMB connector, CVBS (PAL/NTSC), 1 Vpp, 75 Ohm

Audio Line In: 0.707 VRMS max, 10 kOhm typical, jack connector

Audio Line Out: 0.707 VRMS at 16 OhM typical, jack connector

Alarm Input: 1 input

Activation: Short or 5 VDC activation

Alarm Output: 1 output - 30 VDC, max. load 0.5A

Ethernet: RJ45

Streaming Performance

Audio Streaming -Standard: G.711, 8kHz sampling rate, L16, 16kHz sampling rate
AAC-LC, 48 kbps at 16 kHz sampling rate, AAC-LC, 80 kbps at 16 kHz sampling rate

Signal to noise ratio: > 50dB

Streaming Method: Full duplex / half duplex

Video streaming: Video compression: H.264 (MP); M-jpeg

Streaming: Multiple configurable streams in H.264 and M-JPEG, configurable frame rate and bandwidth, regions of interest (ROI)

Overall IP Delay: Minimum – 300ms, Maximum – 850 ms

GOP Structure: IP

Interval: 1 to 12fps

Region: Eight Independent areas for setting encoder quality to optimize bit-rate

Local Storage

RAM: 10 sec pre-alarm recording

Memory card slot: Supporting up to 32 GB micro SDHC / 2 TB micro SDXC card.

Recording: Continuous recording, ring recording alarm/events and schedule

Software

Software features:

-Unit discovery - IP Helper

-Unit Configuration – Via web Browser or configuration manager

-Firmware update- Remotely programmable

-Software Viewing: Web Browser; Video Security Client, Video Security App; Bosch Video management System; Bosch Video Client; or third party software.

Network

Protocols: IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, APIPA (Auto-IP, link local address), NTP (SNTP), SNMP (V1, MIBII), 802.1x, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, no-ip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox, CHAP, digest authentication

Encryption: TLS 1.0, SSL, DES, 3DES

Ethernet: 10/100 Base-T, auto-sensing, half/full duplex

Connectivity: Auto-MDIX (preferred)
Interoperability: ONVIF Profile S; GB/T 28181

Power

Input voltage: +12 VDC or Power-Over-Ethernet (48VDC nominal)
Power consumption: 6.3 W maximum
PoE: IEEE 802.3af (802.3at Type 1)
Power level: Class 2

Camera Certifications and Approvals

Standards: IEC 62471, EN 60950-1, UL 60950-1, UL 60950-22, CAN/CSA-C22.2 NO. ,
60950-1-03, CAN/CSA-C22.2 NO. 60950-22, EN 50130-4, EN 50130-5
FCC Part15 Subpart B, Class B, EMC directive 2004/108/EC, EN 55022 class B
EN 55024, AS/NZS CISPR 22 (equal to CISPR 22), ICES-003 Class B, VCCI J55022
V2/V3, EN 50121-4, EN 60950-22

ONVIF: EN 50132-5-2; IEC 62676-2-3

Certifications: CE, FCC, UL, cUL, RCM, CB, VCCI
Ingress Protection: IP66
Impact Protection: IK10

Mechanical

3-Axis Adjustment: Pan/Tilt/Rotation: 350/130/330 degrees
Color: RAL 9004, RAL 9010

*** (Qty: 17) 2.03 MP Indoor/Outdoor PTZ capable IP cameras (10 to 23mm Varifocal Lens) - Vandal Resistant**

Preferred model: Bosch NIN-832-V10IPS - #F.01U.278.629

Specifications

Image/Video

Video Compression: H.264 (ISO/IEC 14496-10); M-JPEG, JPEG

Streaming: Multiple Individually configurable streams in H.264 and M-JPEG,
configurable frame rate and bandwidth regions of interest. (ROI)

Overall IP delay: Min. 120 ms – Max. – 240 ms

GOP Structure: IP,IBP, IBBP

Encoding: Encoding Interval : 1-30 (25) ips

Resolution:

1920 x 1080, 960p, 1280x960, 1280x720, 400x720

Sensitivity:

Lens 10to23mm (F1.6), 3200K, scene reflectivity 89%, 30 IRE,

Color: 0.4 Lux (0.04fc)

Monochrome: 0.1 lux (0.01fc)

Day/Night: Color, monochrome, auto

White Balance: Auto Electronic shutter, Fixed (1/30 [1/25] to 1/15,000) selectable, default shutter

Backlight compensation: off/auto

Noise reduction: IDR with separate temporal and spatial adjustments

Contrast Enhancement: on/off

Sharpness: Sharpness enhancement level selectable

Dynamic Range: Digital WDR: 76db

Privacy masking: fully programmable

Video motion analysis

Audio

Standard: AAC

Audio Streaming: Full/half duplex

Input/Output

Analog Video Output: CVBS, BNC

Alarm: 2 Inputs

Relays: 1 Output

Local Storage

10-sec pre-alarm recording

Memory Card Slot: Supports SDHC and SDXC micro cards

Recording: Continuous, ring recording Alarm/events/schedule

Software Controls

Unit configuration: via web browser or configuration manager
Software update: remote programmable

Network

Protocols: IPv4, IPv6

Encryption: TLS1.0, SSL, DES, 3DES, AES

Ethernet: 10/100 Base-T, auto-sensing, half/full duplex

Ethernet connector: RJ45

Connectivity: ONVIF Profile S, Auto-mix

Optical

10 to 23 mm Auto Varifocal SR lens

Adjustments: Motorized zoom / focus

Iris Control: Automatic Iris Control

Viewing Angle: Wide: 34x18 degrees (H*V) Tele: 14.8x8.3 degrees

Environmental

Operating temperature: -22 to 122degrees Fahrenheit

Storage temp: up to 158 degrees Fahrenheit

Storage humidity up to 98%

Impact Protection

Water/Dust Protection: IP66 and NEMA Type 4X

Mechanical

Mounting: Vendor must mount to existing goose neck mounts from current installation.

Adjustment Range: 360 degree pan, 90 degree tilt and 90degree twist

Dome

*** (Qty: 2) 48 Port POE Network Switches**

Preferred model: Cisco 2960X Series / (2960S series acceptable)

-POE/POE+ = up to 740W preferred

-48 ports

-170Gbps min. switching capacity preferred

-Full line rate for all 48 ports

*** (Qty: 2) Rack Mounted uninterruptured power supplies**

Model: APC Smart-UPS SMT1500RM2U

Rack mounted

Output

Output Power Capacity: 1000W / 1500VA
Max Configurable Power: 1000W / 1440VA
Nominal Output Voltage: 120V
Output Voltage Distortion: Less than 5% at full load
Output Frequency (sync to mains): 57 - 63 Hz for 60 Hz nominal
Topology: Line Interactive
Waveform Type: Sine wave
Output Connections:
6x NEMA 5-15R

Input

Nominal Input Voltage: 120V
Input Frequency: 50/60 Hz +/- 3 Hz (auto sensing)
Input Connections: NEMA 5-15P
Cord Length: 8 feet (2.44 meters)
Input voltage range for main operations: 82 - 144V
Input voltage adjustable range for mains operation: 75 – 154V

Batteries / Run Time

Battery Type: Maintenance-free sealed Lead-Acid battery with suspended electrolyte, leak proof
Typical recharge time: 3 hours
Replacement Battery: APCRBC133
RBC Quantity: 1

Communications / Management

Interface Ports: Smart Slot, USB
Available Smart Slot Interface Quantity: 1
Control panel: Multi-function LCD status and control console
Audible Alarm: Alarm when on battery, distinctive low battery alarm, configurable delays
Emergency Power Off (EPO) Optional

Surge Protection and Filtering

Surge energy rating: 459 Joules
Filtering: Full time multi-pole noise filtering, 0.3% IEEE surge let-through, zero clamping response time, meets UL 1449

Conformance

Regulatory Approvals: CSA, FCC Part 15 Class A, UL 1778
Environmental Compliance: RoHS 7b Exemption, REACH: Contains No SVHCs

***Provide estimate of Cat6 cable needed to wire all hardware.**

***Provide estimate of EMT (Electrical Metallic Tubing) needed along with all necessary installation hardware.**

-EMT is to be used only when conduit of existing camera wires will not hold additional wiring and where wiring is exposed due to the new installation.

-Vendor is to determine diameter of lengths of conduit required upon site visit.

***Provide estimate for the relocation of 1 camera situated on a high area of the Youth Village Juvenile Building to the JJAEP Building and reconnect to the NVR situated onsite.**

-Vendor is responsible to consider height so that they may estimate the expense of a boom lift truck if needed.

-Vendor will estimate labor and supplies for relocation of the camera into the JJAEP building.

***Provide estimate for replacement of VGA wiring in Control Room to 2 Video displays.**

-Upon site visit Youth Village Information Technology Staff will provide locations so that a proper estimate of wiring length and labor may be produced.

***(Qty:1) 12U Wall-mount rack enclosure**

Material: Plexiglas front door

Locking

Fully assembled for quick installation

Top and bottom panel cable access openings

Black

Hinged cabinet so that it may swing from wall bracket for easy equipment and cable access, adjustable mounting depths from 3" to 20 ½" inches.

*** 1 – Year Parts / Labor Warranty**

Revised by:
Angel Jonathan Montes
Webb County Sheriff's Office - Technology