

Technical Proposal Cochise Court Camera Upgrade/Replacement:

Scope:

Up-Grade and Re-location of existing camera system:

Re-wire as needed 8-existing IP cameras

Replace 12 analog cameras, with New IP cameras and cabling, and any conduit needed.

19 New IP Cameras in 100 Quality Building

6 New IP Cameras in Admin Building

Relocated existing camera head end's and replace with 2 New NVR's with 16 POE ports each with 16TB-HDD storage space each to make 32 ports and 32TB HDD Storage.

Upgrade system and replace analog cameras with IP cameras per places and specs.

All cameras are IC-Real Vandal Proof IP with 100ft IR.

All cabling cat6 plenum, concealed from public view and access.

Hours of work shall be approved by Court staff 24 hours prior to any work being done, after hours work and or weekend work may need to be part of schedule due to use of the buildings.

All cameras will be walked prior to installed with Cochise staff and Preventronics staff.

Each camera view will be reviewed after installation for any changes if required.

Head end/NVR to be-relocated to IDF rooms

Cochise IT staff and Preventronics will work together in IP addressing and passwords.

Preventronics will add new version of Smarticrss-remote-client-software windows software on client computers to view cameras.

Preventronics to provide system status reports every 30 days for 90 days after installation.

Preventronics shall provide Options Per Cochise staff request

Base Project and Option per Customer Request:

Base Project with install of 25 cameras and 2-32 port-poe NVR systems and:

In-100 Quality building, 19 new cameras and 2-new NVRs system-32 ports poe with 32TB Storage

In-Admin building, 6 new cameras and 2-new NVRs system-32 ports poe with 32TB Storage

Base bid price for project would be \$31,111.73

Option 1 add would be: (26th camera)

Add 1 more camera to be located in rear of court room Div-3

For the 1 new camera add to project is would be \$589.97

Option 2 add would be:

Add 2 more cameras on exterior of 100 Quality to view parking areas and prisoner and judge parking.

With 4 cameras in this area we can have them look at specific areas for best protection.

2 cameras covering prisoner and judge areas, 2 new cameras to look at parking lots

For the 2 cameras added to project is would be \$1,179.94 (2 of option #1)

Or

Upgrade 2 existing proposed cameras on exterior of 100 Quality to view parking areas and prisoner and judge parking to dual camera domes.

With 2 dual camera domes, it looks like 1 dome in each location, but you have 2 separate cameras per dome in this area we can have them look at specific areas for best protection.

Same as above just 2 camera domes, and still covering prisoner, judge, and 2 parking lots.

For the 2 cameras upgrade to project is would be \$925.86

Option 3 add would be:

Upgrade 1 existing proposed camera at Admin 2nd floor in ADR/FCC area.

New dual camera dome to look down open office area, while approved camera to look at conference rooms.

For the 1 camera upgrade to project is would be \$462.93

Option 4 add would be:

Add 1 more camera to be located on exterior of Admin court room Div-3

This camera would cover parking lots on side and in front of Admin Building.

For the 1 new camera add to project is would be \$589.97

Option 5 add would be:

Upgrade 2-NVR's to IC Real NVR's with 32 Ports POE, via 2/24-port POE and 2/16-port POE switches

For the 2 upgraded new NVR's/switches add to project is would be \$ 3,203.87

New Camera Equipment Info:

Cut Sheets included at end of document.

IC-Real and most NVRs have 16 ports on-board poe ports.

We are providing an IC-Real NVR with 16 on board poe ports, each unit will pull all cameras up on remote software as 32 cameras

Models: NVR-MX16POE-1U4K1-16TB

Option #5 is for each site to have 1 NVR, with 2 network ports, 1 port for cameras, connected to 1/24 port poe switch and 1/16 port poe switch, also and 1 network port for Cochise Network.

When programmed with cameras on camera port, it is the same as on-board poe ports.

Preventronics will not allow any cameras on Cochise network, all cameras will go through NVR 1st.

That will reduce the bandwidth challenge across Cochise County Network.

Models: NVR-6032K, with 32TB Storage Space, 24 Port POE Switch, and 16 Port POE Switch.

We are providing an IC-Real Vandal Proof indoor/outdoor rated Dome IP camera with IR-night vision.

Models:

Standard Camera- IPMX-D20F-IRW1, camera single camera dome with IR night vision.

Dual Camera Model- IPEL-M40F-IRW1, camera has 2 cameras in 1 housing with IR night vision, each camera can look at different area, and records separately.

Details:

Per: Attachment 2 – 20-46-SUP-02

1.2.3 The CONTRACTOR shall install 25 IP security cameras at the following locations within the SUPERIOR COURT main building:

OBJECTIVE

If Preventronics is awarded the solicitation 20-46-SUP-02, Preventronics shall provide all labor, materials, transportation, equipment and technical expertise in order to complete the installation of a video security system that will serve multiple purposes to the satisfaction of Cochise County (“COUNTY”). A master central monitoring center is to be created and/or relocated and remote monitoring stations shall be in communication. The system infrastructure shall be constructed/installed to support additional cameras that will be installed as funding is available.

The COUNTY wishes to replace and upgrade the remaining analog security cameras to IP security cameras (“SECURITY CAMERAS”) at the SUPERIOR COURT MAIN BUILDING and ADMINISTRATION BUILDING. The COUNTY intends to immediately upgrade all security cameras at the COUNTY SUPERIOR COURT located at 100 Quality Hill, Bisbee Arizona 85603 (“MAIN BLDG”) and THE ADMINISTRATION BUILDING (“ADMIN BLDG”) located at 4 Ledge Avenue, Bisbee, Arizona 85603. The COUNTY, as funds become available, may choose to increase the scope of work through a modification in order to include other buildings throughout a 5-year period. The required system should provide authorized personnel with visual access to various areas of the complex. The system shall be designed with upward growth and expansion in mind.

Preventronics shall be responsible for and complete the installation (hardware and software), configuration, testing implementation and training for the following requirements throughout this document, the original solicitation, and any of its attachments, as well as:

- provide and install all necessary mounting brackets, wire, jack ends, and any miscellaneous hardware.
- installation of Category 6 cable, power and data conduit as needed.
- install and setup of the security cameras and appropriately integrate connections into the New IC Realtime Digital Video Recorder.
- provide updated as-builts drawings and functional test results throughout the installation process; and
- perform a complete system final check prior to COUNTY Information Technology Department’s final inspection on Preventronics installation.

1.0 REQUIREMENTS

1.1 General Requirements

Preventronics will perform a broad range of services and activities in order to complete planning, installation of the IP SECURITY CAMERAS which all cameras must have night vision capabilities. This shall include but not be limited to, purchase and installation of pre-approved access and incidental equipment, computer hardware and software maintenance, migrating backup files and data, training, contractor support and warranty after purchase,

data collection, compatibility with existing security cameras and security camera systems, and relocation of communication hardware into communication closet if not already done so.

1.2 System Requirements

All systems and components shall have been thoroughly tested and proven in actual use. All equipment and materials used in this SYSTEM shall be standard components, regularly manufactured, and in general use, and shall not be modified specifically for the COUNTY COURTS.

1.2.1 Preventronics shall install all supplies and equipment that is compatible with IC-Realtime NVR software which is currently utilized by the COUNTY.

1.2.2 The NVR hardware for the security cameras will be moved/installed in a communication (“COM”) closet for each building. Preventronics shall be responsible for the installation to include incidental equipment and technology, such as wiring. Preventronics shall relocate all communication hardware to a COM closet if not already located in such location.

1.2.3 Preventronics shall install 25 IP security cameras at the following locations within the SUPERIOR COURT main building:

Superior Court Main Bldg. - Basement

- 1 interior security camera on wall
- 2 interior security cameras on ceiling hallway

Superior Court Main Bldg. – 1st Floor

- 1 interior security camera on ceiling
- 1 interior security camera on back wall in DIV V courtroom located by the Judge’s bench
- 1 interior security camera on back corner wall in DIV V courtroom
- 1 interior employee entrance/exit security camera on ceiling
- 1 exterior security camera on the left-hand side of the building with high resolution and night capability
- 1 exterior security camera on the right-hand side of the building with high resolution and night capability
- 1 interior security camera on ceiling facing the clerk’s office and main lobby area

Superior Court Main Bldg. – 2nd Floor

- 2 interior security cameras located in the lobby on ceiling
- 1 interior security camera in DIV I courtroom located on the back wall
- 1 interior security camera in DIV I courtroom located on the corner wall located by the courtroom clerk area
- 1 interior security camera in DIV IV courtroom located on the back wall
- 1 interior security camera in DIV IV located on the wall behind the Judge’s bench
- 1 interior security camera by the entrance/exit (security station)
- 1 interior security camera located in the Law Library lobby area on the right-hand side corner on the ceiling
- 1 interior security camera located in the Law Library public area on the right-hand side corner on the ceiling

Administration Bldg. – 1st Floor

- 1 interior security camera in the entrance/ exit located on the left-hand corner on the ceiling (security station)

Administration Bldg. – 2nd Floor

- 1 interior security camera located in the lobby on ceiling
- 1 interior security camera located in DIV III courtroom located behind the Judge's bench on the back wall
- 1 interior security camera located in DIV III courtroom located on the back wall
- 1 interior security camera located in the back-employee entrance hall between DIV III and ADR/FCC
- 1 exterior security camera located on the back roof/patio area with high resolution and night vision capability

The County Approved Manufacturer is IC-REAL VANDAL PROOF DOME CAMERA, compatible alternatives may be considered upon submission of technical specifications. The following equipment has been tested and found NOT to conform OR be compatible with system requirements: HYBRID NVR IC-REALTIME MODEL AVR-4M316, HYBRID NVR IC-REALTIME MODEL AVR-1718.

Vendor will coordinate the configurations with the CCIT department to verify all cameras and NVR's are configured with Cochise County security requirements and industry best practices. (i.e. usernames, passwords, etc.)

1.3 Installation Requirements

Preventronics shall:

- measure for the conduit installation and provide a list of conduits and hardware.
- install all conduit and pull boxes to each security camera and pull all cables leaving an appropriate amount of slack.
- identify the types of anchor screws and necessary hardware for mounting security cameras, pull boxes and conduit; and
- provide conduit installation drawings based on the site survey. All conduit shall conform to National Electrical Code (NEC) standards.
- configure new IP cameras with the NVR IC-Realtime digital recorder
- perform functional checks on each security camera installation
- document functional checks and provide the County with the results
- Any hardware (NVR's, Cables, etc.) for the security cameras will be moved to secure communication ("COM") closets
- coordinate with the County Information Technology Department to define all IP address, subnet Mask address, and Gateway address for setting up the NVR IC-Realtime digital recorder and IP cameras prior to installation
- provide at least 48 hours' notice before installation of any item.
- must sign a form stating everything is working correctly when each job is completed

COUNTY Shall:

- Provide wall or rack space as required
- Provide electronic (PDF) version of building diagrams
- Provide Flowcharts diagrams of approved layout Prior to install
- Provide Network Connectivity to SYSTEM
- Provide IP address space for the SYSTEM

2.0 Miscellaneous Requirements

2.1 Mounting Hardware

Security Camera hardware shall be determined by each individual security camera which may include new: mounts, other hardware, and all necessary wiring needed. If any mounting locations need to be modified, the Preventronics shall only do so with expressed approval from the COUNTY and shall ensure quality of craftsmanship is adhered to.

2.2 Training Requirements

The Contractor shall provide on-site training that shall include at a minimum, but not be limited to:

- maintenance of equipment
- implementation and maintenance of user accounts for signing into software
- maintenance of security cameras
- maintaining security footage

The CONTRACTOR shall provide a digital set of any and all manuals and/or instruction books for the operation and maintenance of the complete system.

3.0 Project Management

The County will oversee the Project Management role for the project. CONTRACTOR shall allow for a point person to be assigned to coordinate the development of the schedule, timing of delivery of materials and supervising onsite resources.

4.0 Drawing Review/Creations

CONTRACTOR shall provide electronic buildings floorplans, system design drawings, test plans and test results before job is complete
COUNTY will provide the initial floorplans for all COUNTY buildings identified within this scope of work.

5.0 Remote Access

Remote access outside of the COUNTY network will not be permitted.

6.0 Warranty

The Preventronics shall include a 1-year warranty for parts and labor and honor the manufacturer's warranty on all equipment installed. Additionally, the CONTRACTOR shall provide, at no cost to the COUNTY, the removal of all defective parts still covered under any such warranty.

7.0 Deliverables/Milestones

The Preventronics shall provide all deliverables outlined within this document to the COUNTY for approval. The COUNTY shall inspect and approve all work performed and any equipment installed, in writing, and provide to the CONTRACTOR prior to final payment. The Preventronics shall provide to the COUNTY invoices for each sub-line item completed. The CONTRACTOR shall include the written acceptance provided by the COUNTY to the Procurement Department at the time of invoicing for routing and approval of payment.

7.1 Provide Serial Numbers on all cameras and all NVR's in an MS Excel Spreadsheet

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7.2 System installation 7.2.1 Provide digital (PDF file) layout of all Cameras locations including all cable layout to the NVR at each building as well as all system design drawings (PDF file)

7.2.2 Provide initial setup on any client computers to view cameras with the Smarticrss-remote-client-software

7.2.3 Provide County Information Technology Department with all passwords and security questions used during all installs

7.2.4 Provide Weekly Progress reports during the installation process.

7.3 Provide User Training sessions on using the software and NVR

7.4 Provide (2) Quality Check Reports on completion of each building which will show all cameras and NVR are in working condition which includes verifying there are no camera feed dropping/lost.

7.4.1 Report 1- 30 days after install

7.4.2 Report 2- 60 days after install

7.5 Provide a Final report of building within 90 days of installation

7.6 If any additional expansion of systems after installation, must follow all sections above.

Any Questions Please call,

Spencer Bledsoe

Pre-venTronics

a division of Circuit-Tron Corporation

1635 S. Alvernon Way

Tucson, AZ 85711-5645

E-mail: sbledsoe@preventronics.com

Cell: (520) 500-6005

Office: (520) 790-4960