

## 01.32.36 Video Monitoring and Documentation Bid Specification

### Work Zone Cam Pro - 24 Megapixel DSLR Wireless Camera System with Live Video Burst

- I. The Contractor shall provide a High Definition Megapixel Web Camera which shall provide a full view of the work area on the construction jobsite. The Web Camera shall allow users to remotely view the project on a secure connection via a network connection.

VENDOR OF CHOICE: Work Zone Cam +1-201-403-2888 WWW.WORKZONECAM.COM

- II. The Web Camera shall meet or exceed the following requirements:
- Thermostatically controlled enclosure with heater and blower
  - Powder coated aluminum housing with stainless steel fittings for padlocks
  - DSLR camera with 24 Megapixel images (6000 x 4000 pixels), ASP-C Imager
  - Angle of view: wide 63° horizontal - 44° vertical, full zoom 22° horizontal - 15° vertical
  - Auto Features: ISO speed, metering mode, white balance, and focus
  - Live video burst with instant live 24 Megapixel snapshot capability
  - EF-S 18mm-55mm f/3.5-5.6 Image Stabilization II lens
  - Professional photo grade lens window
  - Omni-directional power indicator lamp will illuminate green
  - Two UL rated compression glands, gas spring lid, adjustable camera sled
  - Compression: JPEG/RAW
  - 16GB onboard storage
  - Communications: 10base-T/100base-TX Ethernet, IP Addressing: Dynamic or Static
  - Wireless Cellular 4G LTE Modem with GPS and exterior outdoor antenna
  - Multi SIM card support for mobile carrier diversity
  - 6W @ 120VAC, 230VAC or 12VDC Solar Power

- III. Online Web Interface: The Web Camera will function via a web based interface to allow the viewing of all High Definition still images captured and stored from any location with internet access.

The Internet Based Online Web Interface shall include:

- Responsive HTML5 design for cross-platform access on desktop and mobile devices
- TLSv1.2 encrypted live video burst
- Display company logo and project name
- Project Dashboard for viewing and accessing multiple cameras
- Digital Pan, Tilt, and Zoom capability within a High Definition image
- Timeline navigation system for selecting specific images and times
- Automated image geotagging with camera location
- AI-edited time-lapse technology removes frames obscured by foreign objects or weather elements, with music and graphics then added for downloadable presentations
- Image Comparison Tool for overlaying two images from different dates and times for comparison
- Share Image Tool for saving and emailing
- Project Management Software integration (Aconex, Autodesk BIM 360, Infotech, PlanGrid, Procore, SharePoint)
- Current or historical local weather data
- Map integration of GPS data showing camera location
- Multiple website themes with option to personalize background
- Administrative controls for the client, allowing them to customize public access page, including project name, camera name configuration and username management with three levels of password protection

- IV. The system shall be capable of live video burst and shall capture and upload images 24/7.
- V. The System Vendor will maintain images on their servers for reference available at all times during the life of the project. All images will be protected on secure fully redundant servers at multiple locations owned and operated by the System Vendor.
- VI. The System Vendor shall provide an embed code or web interface link with Contactor's project details for unlimited public or private access.
- VII. The System Vendor at the end of the project shall provide a comprehensive archive package that includes all images, historical weather data, computer-generated time-lapse movies and a royalty-free web-based viewer software. The software shall include the same interactive interface as the live camera during the project.
- VIII. The Contractor shall secure a nearby structure for camera mounting or provide a fixed pole (40 feet /12 meters height recommended and 3 inches / 8 centimeters minimum diameter) as per System Vendor's instruction. The Contractor shall supply all equipment required for safe and secure access to the camera location, including building access, bucket truck and/or lift, for technicians performing installation and maintenance services.