

## 01.32.36 Video Monitoring and Documentation Bid Specification Work Zone Cam Pro - 24 Megapixel DSLR Wireless Camera System

- 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
  - 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 96° horizontal - 73° vertical, full zoom 22° horizontal – 15° vertical
  - Auto Features: ISO speed, metering mode, white balance, and focus
  - EF-S 10-22mm f/3.5-4.5 ultrasonic motor 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
  - 32GB onboard storage
  - Communications: 10base-T/100base-TX Ethernet, IP Addressing: Dynamic or Static
  - Wireless Cellular 4G LTE Modem with GPS and antenna
  - Multi SIM card support for mobile carrier diversity
  - 4W @ 120VAC, 230VAC or 12VDC Solar Power
  - Battery, LiFePO4 chemistry, 9.9Ah
- 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
  - Display project name and logo
  - Project Dashboard allows easy navigation between multiple cameras and projects
  - Digital Pan, Tilt and Zoom capability within a High Definition image
  - Visual timeline with quick thumbnail view allows image navigation by year, month, day and hour
  - AI-edited time-lapse technology removes frames obscured by foreign objects or weather elements, with music and graphics then added for downloadable presentations
  - Photo Filters and Graphical Markup Tools for detailing and creating notes with graphical overlays on images, including project title, logo and time date stamp
  - Image Comparison Tool for comparing two images taken at different times, overlaid on top of each other
  - Share Image Tool for saving, printing, emailing and posting to Hall of Fame
  - Project Management Software integration (Aconex, Autodesk Construction Cloud, Autodesk Build, CMiC, Esri, InEight, Infotech, Projectmates, Procore, Raken, Salesforce)
  - 3D/4D Model Integration (Autodesk Navisworks, Autodesk Revit, Bentley Synchro)
  - Social Media Integration Tools for sharing project images and notes
  - Automatically generated daily/weekly project progress update email with camera image and weather
  - AI Media Dashboard – Interactive charts display AI-detected events and observations
  - Graphical Weather applet displaying local weather data with satellite and updating radar imaging
  - Integration of maps, aerial and satellite imagery
  - Graphical Data Management Tools showing archived and current system status of solar amperage, battery power remaining, wireless radio connectivity, and device location
- IV. The system shall be capable of 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.