

# Bid Specification

## Video Monitoring and Documentation

### 24 MegapixelCam

Dependable and secure Linux OS

Enhanced self-healing technology

10/100 ethernet or transmit over 4G networks



24 Megapixel Digital SLR camera: flexible 24 MP, 13 MP or 6 MP archiving

Live streaming video preview

Take and share on demand snapshots

Digital presets and Pan/Tilt/Zoom within captured image

Nikon optics for superior quality HDR (High Dynamic Range) imaging and additional creative effects including Architectural Miniature, Artistic ColorSketch and Cinematic Black & White

Unique double locking mount for jitter-free documentation

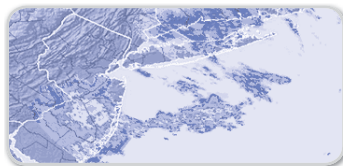
**Specification includes camera system and managed services**



Live Video Preview



Take and Share On-demand Snapshots



Current and Historical Weather Data



iOS and Android App



Custom Website Development



Installation and Maintenance



Quality Control and Maintenance



Full Service Support



Instant Time-Lapse Movies

**Additional services included**



**EarthCam.net**  
The Webcam Technology Experts

1-800-EARTHCAM  
[www.earthcam.net/contactus](http://www.earthcam.net/contactus)



## **01.32.36 Video Monitoring and Documentation Bid Specification**

1. The Contractor shall provide a High Definition Megapixel Webcam for users to remotely view the project on a secure connection via a network connection. The camera will provide a full view of the work area on the construction site.

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2. The camera shall meet or exceed the following requirements:
  - 2.1 Thermostatically controlled environmentally sealed enclosure with stainless steel hardware and double locking pan/tilt head
  - 2.2 Industrial grade solid state embedded Linux System
  - 2.3 24 Megapixels (6000 x 4000 pixels), Digital SLR camera with a 15.6mm x 23.6mm DX-Format CMOS Image Sensor
  - 2.4 Lens: F/3.5-F/5.6, 18mm-55mm, Optical zoom
  - 2.5 Professional photo grade glass enclosure window
  - 2.6 Nikon optics for superior image quality
  - 2.7 Auto Features: ISO, Shutter, White Balance and Focus
  - 2.8 Live streaming video preview with 1080i broadcast quality video clip capability
  - 2.9 Image sensor cleaning for dust reduction
  - 2.10 11-point wide area autofocus system
  - 2.11 Omni-directional power indicator lamp will illuminate green
  - 2.12 Communications: 10base-T/100base-TX Ethernet, IP Addressing: Dynamic or Static
  - 2.13 4G cellular modem
  - 2.14 120VAC, 220-230VAC or 12VDC power
  - 2.15 Designed for EarthCam Control Center
3. Internet Based Online Interface: The camera will be accessible via an internet based Software as a Service (SaaS) solution. This online interface will be managed and supported by the System Vendor. The service will be available for the term of the project and allow the viewing of live video and High Definition digital still images captured and stored of the project on both mobile and desktop platforms.

The Internet Based Online Interface shall include the following features:

- 3.1 Responsive HTML5 design for cross-platform access on desktop and mobile devices
  - 3.2 Display project name and logo
  - 3.3 Multiview Screen for viewing and accessing multiple cameras
  - 3.4 Live video viewing
  - 3.5 Picture in picture capability for viewing live video and High Definition Megapixel images simultaneously
  - 3.6 Digital Pan, Tilt and Zoom capability within a High Definition image
  - 3.7 Instant live snapshot capability in addition to preset scheduled archives
  - 3.8 HDR (High Dynamic Range) imaging and additional special effects
  - 3.9 Access camera settings, ISO, white balance, metering and exposure compensation
  - 3.10 Timeline navigation system for selecting specific images and times
  - 3.11 Multifunction Image Browsing
  - 3.12 Time-lapse feature with optional time date overlay for instant time-lapse viewing, downloading and embedding
  - 3.13 Full Screen Mode for displaying complete image without any graphical frame
  - 3.14 Photo Filters and Graphical Markup Tools for detailing and creating notes with graphical overlays on images, including project title, logo and time date stamp
  - 3.15 Image Comparison Tool for comparing two images taken at different times, overlaid on top of each other
  - 3.16 Share Image Tool for saving, printing, emailing and posting to Hall of Fame
  - 3.17 Marketing Section for posting and sharing camera images with notes
  - 3.18 Social Media Integration Tools for sharing project images and notes on Facebook and Twitter
  - 3.19 Automatically generated daily/weekly project progress update email with camera image and weather
  - 3.20 Graphical Weather applet displaying local weather data with satellite and updating radar imaging
  - 3.21 Integration of maps, aerial and satellite imagery
  - 3.22 Graphical Data Management Tools showing archived and current system status of solar amperage, battery power remaining, wireless radio connectivity and device location
  - 3.23 Automatically generated Progress Reports (in PDF and PowerPoint formats) using daily, or weekly camera images with associated weather data, notes, and Client logo
4. Access to account protected by Account Security feature which includes four levels of password protection, IP address block/permission and SSL protection of user login password.
  5. The system shall capture and upload images every 15 minutes, 24 hours per day.
  6. The system shall have M2M – Machine to Machine 24/7 Support with active self-healing technology and automatic software upgrades to maintain the quality, consistency and reliability of all images.
  7. Images will be maintained on the System Vendor's servers for reference available at all times during the life of the project and for no less than 60 days after completion. All images will be protected on servers owned and operated by the System Vendor and located in a secure area at the System Vendor's location.
  8. The Contractor shall provide all service and maintenance, including cleaning, of the camera system throughout the life of the project including making appropriate arrangements for camera to remain in operation up to and through finalization of all structural, landscaping and "completed state" condition necessary for beginning-to-end time-lapse record.
  9. The System Vendor shall provide custom public website development. Website shall be separate from the Online Interface, match the look and colors of the project's website, and be delivered as embed code or standalone web page. Additional features include Facebook and Twitter integration, full screen mode, image comparison, weather, multiple logos, graphical background image and project description.
  10. The System Vendor shall provide time-lapse movie(s) at the end of the project. Time-lapses shall be professionally edited by a video editor using image stabilization software. The movie will start with a graphic, incorporating project title, date and logo. Periods of bad weather or inactivity shall be removed to produce a compelling and consistent movie. A machine edited movie will not be acceptable.
  11. The Contractor shall secure a nearby structure for camera mounting or provide a fixed pole (40 foot / 12 meters height recommended) and 3 inch / 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 for technicians performing installation and maintenance services, including building access, bucket truck and/or lift. The System Vendor will consult on and provide recommendations for optimal camera placement and provide professional installation services as required.