

# Bid Specification

## Video Monitoring and Documentation

### StreamCam HD

Dependable and secure Linux OS

Enhanced self-healing technology

10/100 ethernet or transmit over 4G networks



Thermostatically regulated enclosure

Maintenance-free wiper to ensure clear images

16:9 full-frame live HD video

1080p broadcast quality recording

Multi-stream H.265 and H.264

Automatic day and night function

30x optical, 12x digital zoom

HD image sensor

63.7° angle of view

2.1 MP archives: 1920 x 1080 pixels

**Specification includes camera system and managed services**



Fixed Video Stream



Current and Historical Weather Data



iOS and Android App



Website and Facebook Integration



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 Streaming Video Webcam for users to remotely control and view a live feed via 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 Consist of a thermostatically controlled environmentally sealed enclosure and double locking pan/tilt head
  - 2.2 User controlled window wiper
  - 2.3 Industrial grade solid state embedded Linux System
  - 2.4 Live video stream in H.265 format
  - 2.5 1080p broadcast quality video recording capability
  - 2.6 H.265 and H.264 video compression
  - 2.7 50/60fps in all resolutions
  - 2.8 2.13 Megapixel images (1920 x 1080 pixels)
  - 2.9 Lens: 4.3 – 129mm, f/1.6 – 4.7, 30x Optical, 12x Digital
  - 2.10 Professional photo grade glass enclosure window
  - 2.11 63.7° angle of view
  - 2.12 Auto Features: Focus and Day/Night
  - 2.13 Communications: RJ-45 10BASE-T/100BASE-TX PoE
  - 2.14 4G cellular modem
  - 2.15 On-Board Data Back-Up to provide a minimum of thirty days of on-board image retention
  - 2.16 120VAC, 220-230VAC or 12VDC power
  - 2.17 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 Secure HTTPS compliant with live stream secured & encrypted via https transport
  - 3.3 Display project name and logo
  - 3.4 Project Dashboard allows easy navigation between multiple cameras and projects
  - 3.5 Security Interface offers flexible multi-view camera grid selective up to 9 cameras per screen streaming simultaneously
  - 3.6 Real-time live video viewing
  - 3.7 Onscreen control button for wiper control to allow for remote cleaning of the viewing window
  - 3.8 Picture in picture capability for viewing live video and High Definition Megapixel images simultaneously
  - 3.9 Instant live snapshot capability in addition to preset scheduled archives
  - 3.10 Visual timeline with quick thumbnail view allows image navigation by year, month, day and hour
  - 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 video and 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 Project Management Software integration (Aconex, Autodesk BIM 360, PlanGrid, Procore, SharePoint)
  - 3.18 Posting and sharing camera images with notes
  - 3.19 Social Media Integration Tools for sharing project images and notes on Facebook and Twitter
  - 3.20 Automatically generated daily/weekly project progress update email with camera image and weather
  - 3.21 Graphical Weather applet displaying local weather data with satellite and updating radar imaging
  - 3.22 Integration of maps, aerial and satellite imagery
  - 3.23 Graphical Data Management Tools showing archived and current system status of solar amperage, battery power remaining, wireless radio connectivity, and device location
  - 3.24 Automatically generated Progress Reports (in PDF and PowerPoint formats) using 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 5 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 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.
  11. 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.
  12. 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.