

# Bid Specification

## Video Monitoring and Documentation

### Mobile TrailerCam 16 MegapixelCam Advanced

Specification includes camera system and managed services



Live Video Preview



Take and Share On-demand Snapshots



Installation and Maintenance



Quality Control and Maintenance



Current and Historical Weather Data



Mobile Device App



Full Service Support



Website Development

Rugged UV and cut resistant spiral conduit for cable deployment

Heavy duty galvanized steel construction

Low maintenance AGM sealed battery  
75 Amp battery charger

16 MP fixed position camera, HD: 4,928 x 3,264 pixels  
Maintenance-free wiper to ensure clear images

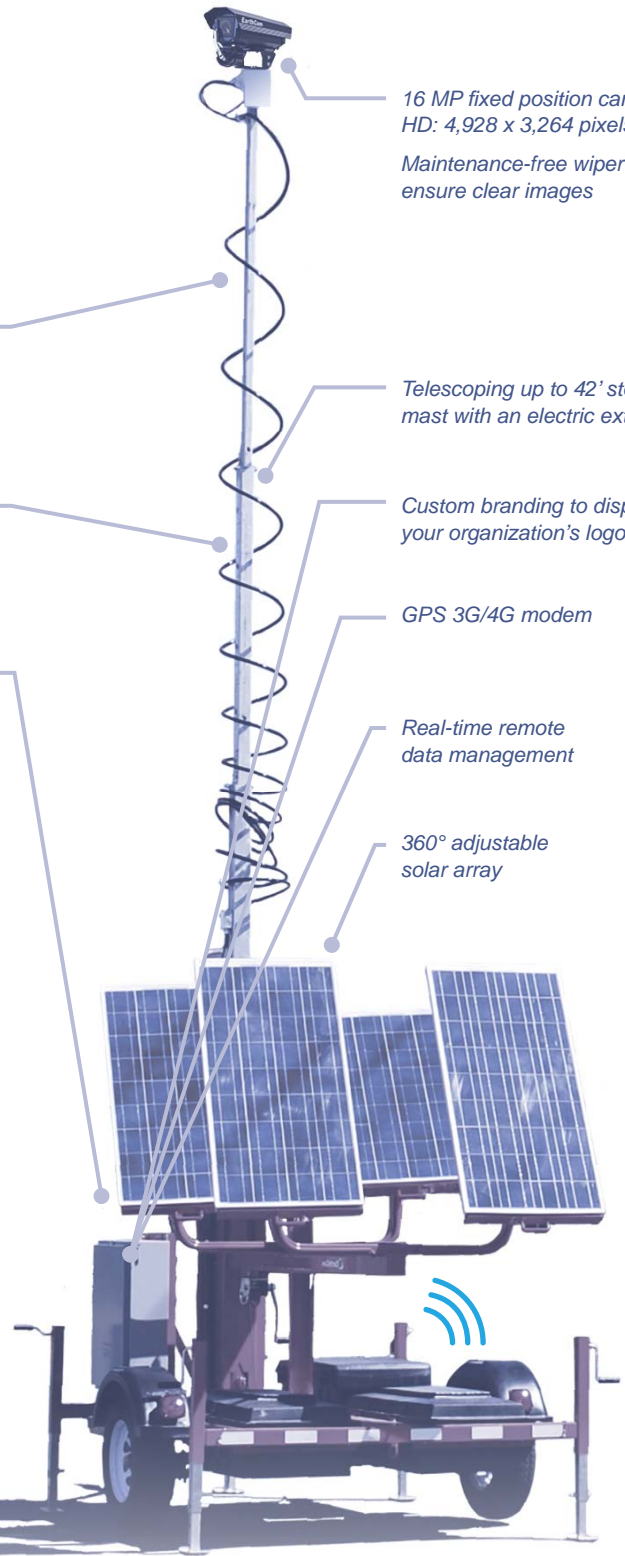
Telescoping up to 42' steel mast with an electric extension

Custom branding to display your organization's logo

GPS 3G/4G modem

Real-time remote data management

360° adjustable solar array



Additional services included



**EarthCam.net**  
The Webcam Technology Experts

1-800-EARTHCAM  
www.earthcam.net/contactus



## EarthCam Mobile TrailerCam 16 MegapixelCam Advanced Model # ECCS09103

### 01.32.36 Video Monitoring and Documentation Bid Specification

1. The Contractor shall provide a Self Powered Mobile Trailer 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 trailer camera system shall meet or exceed the following requirements:
  - 2.1 Dimensions: 16.2' L x 7.5' W x 6.9' H (4.9m L x 2.3m W x 2.1m H)
  - 2.2 Weight: 2800lbs (1270kg)
  - 2.3 Single torsion-type axle steel welded trailer with 2" adjustable ball hitch manual outriggers
  - 2.4 DOT approved lighting package to include brake and marker lights
  - 2.5 Trailer mounted locking manual/motorized 30 foot telescoping mast with spiral conduit for cable deployment
  - 2.6 Full size spare tire
  - 2.7 Thermostatically controlled environmentally sealed black powder coated enclosure with stainless steel hardware and double locking pan/tilt head
  - 2.8 User controlled window wiper
  - 2.9 Industrial grade solid state embedded Linux System
  - 2.10 16.2 Megapixels (4928 x 3264 pixels), Digital SLR camera with a 15.6mm x 23.6mm DX-Format CMOS Image Sensor
  - 2.11 Lens: F/3.5-F/5.6, 18mm-55mm, Optical zoom
  - 2.12 Nikon optics for superior image quality
  - 2.13 Auto Features: ISO, Shutter, White Balance and Focus
  - 2.14 640 x 426 live streaming video preview window
  - 2.15 Communications: 10base-T/100base-TX Ethernet, IP Addressing: Dynamic or Static
  - 2.16 On-Board Data Back-Up to provide a minimum of thirty days of on-board image retention
  - 2.17 Solar powered and wireless
  - 2.18 150 watt polycrystalline silicon photovoltaic solar modules
  - 2.19 Custom branding to display company logo
  - 2.20 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 via a secure password protected website.

The Internet Based Online Interface shall include the following features:

- 3.1 Display project name and logo
  - 3.2 Multiview Screen for viewing and accessing multiple cameras
  - 3.3 Real-time live video viewing
  - 3.4 Onscreen control button for wiper control to allow for remote cleaning of the viewing window
  - 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 Calendar based navigation system for selecting specific images and times
  - 3.10 Multifunction Image Browsing
  - 3.11 Time-lapse feature for instant time-lapse viewing and image playback by day, week, month, or year
  - 3.12 Full Screen Mode for displaying complete image without any graphical frame
  - 3.13 Graphical Markup Tools for detailing and creating notes with graphical overlays on images
  - 3.14 Image Comparison Tool for comparing two images taken at different times, overlaid on top of each other
  - 3.15 Share Image Tool for saving, printing, emailing, sending to mobile devices and posting to Notes Section
  - 3.16 Notes Section for posting images with notes, uploading photos, videos, and files directly from a desktop or mobile device
  - 3.17 Social Media Integration Tools for sharing project images and notes on Facebook and Twitter
  - 3.18 Graphical Weather applet displaying local weather data with satellite and updating radar imaging
  - 3.19 Integration of Google Maps, aerial and satellite imagery
  - 3.20 Data Management Tools showing archived and current system status of solar amperage, battery power remaining, wireless radio connectivity, and device location
  - 3.21 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 supply all equipment required for safe and secure access to the camera location for technicians performing installation and maintenance services, including site access, lifts and/or necessary road or lane closures. The System Vendor will consult on and provide recommendations for optimal camera placement and provide professional installation services as required.