

ConstructionCam HD

The best way to stream live video to your public website



- Widescreen 16:9 for true HD imaging
- Robotic pan, tilt with 120x zoom
- Streaming video over 4G wireless networks
- Multi-stream H.264 and Motion JPEG
- 2 Megapixel digital image archiving
- Maintenance-free wiper system
- Thermostatically regulated enclosure
- Fast, dependable, solid state Linux system

Camera Options:



Solar Power System

- Fully Autonomous System
- Remote Monitoring & Diagnostics
- Circuit Breaker & Fuse Protected
- Automatic Shutdown & Recovery



Wireless Communications

- 4G Wireless Technologies
- Mobile Broadband Service
- Point-To-Point Microwave Wireless
- Wireless ISP



Control your cameras remotely from your desktop or mobile device

www.earthcam.net/technology



DOWNLOAD ELECTRONIC VERSION OF THIS SPEC

<http://www.earthcam.net/aespecs/constructioncamhd>

For additional EarthCam A&E specs visit: <http://www.earthcam.net/aespecs/systems>



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1. Physical

**Dimensions: Camera Enclosure: 6.3" (160mm) H x 6.9" (176mm) W x 20.2" (514mm) D
Pan/Tilt Unit: 11.3" (288mm) H x 6.5" (165mm) W x 7.4" (189mm) D
Weight with Pan/Tilt Unit: 47lb (21.3kg)**

2. Environmental

**Operating Temperature: -10°F to 120°F (-23°C to 49°C)
Thermostatically Controlled Heater and Defroster
Remotely Controlled Window Wiper**

3. Construction

Robotic HD Camera System Shall Consist of a Die-Cast and Extruded Aluminum Housing, H.264 Streaming Video Encoder and Camera System.

4. Pan & Tilt Robotic Base

**Operator Controlled Movement for Pan/Tilt Functionality, IP66-rated Protection, Easily Panned and Tilted by Operator
Pan/Tilt: Pan Range 0° to 355°, Tilt Range 10° to -80°**

5. Camera

**Image Sensor: 1/3" Progressive Scan CMOS 2 Megapixel
Lens: F5.1 – 51mm, f/1.8 – 2.1, Auto Focus, Auto Day/Night
Zoom: 10x Optical and 12x Digital
Video Compression: H.264, MPEG-4 Part 10/AVC, Motion JPEG
Resolution: HDTV 1080i 1920x1080, HDTV 720p 1280x720
Frame Rate: 30fps in All Resolutions
Video Streaming: Multi-Stream H.264 and Motion JPEG
Image Settings: Compression, Brightness, White Balance, Exposure Control, Backlight Compensation, Rotation, Mirroring of Images, Text and Image Overlay
Security: Password Protection, IP Address Filtering, HTTPS Encryption, IEEE 802.1X Network Access Control
Communications: RJ-45 10BASE-T/100BASE-TX PoE
Designed for the "EarthCam Control Center – Streaming Video Edition – Robotic with Mobile Support" Software**

6. Electrical

Operational Voltage: 24VAC (100-240VAC 50/60Hz Available), Maximum Power Consumption: 36W

7. Interface and Online Software Features

**Software Delivered by Vendor as a Managed Service
Displays Company Logo and Project Name
Capable of Viewing Actual Live Video
Picture in Picture to View Live Video, While Viewing High Definition Images
Calendar Based Navigation System for Selecting Specific Images
Multifunction Image Browsing
Pan, Tilt and Zoom Capability within a High Definition Image
Onscreen Control Button for Wiper Control to Allow Remote Cleaning of the Viewing Window
A Multiview Screen to View All Cameras on Project at the Same Time
Graphical Mark-Up Tools for Detailing and Creating Overlays on Images
Graphical Weather Applet Displaying Ten Points of Local Weather Data and 48-hour Forecast
Remote Solar Monitoring Screen Displaying the DC Amperage Output of Solar Panels
Remote Battery Monitoring Screen Displaying Battery Voltage, Temperature and Status
Remote Cellular Monitoring Screen Displaying Connectivity, Network Traffic and Modem Temperature
Remote Wireless Radio Monitoring Screen Displaying Connectivity, Network Traffic and
Google Map Features Including Wireless Radio Locations
Share Image Tools: Save, Print, Email and Post to Message Board or Mobile Devices
Automated Progress Report in PowerPoint, Open Office and PDF Formats
Map, Aerial and Satellite View by Google
Time-Lapse Feature Includes Instant Time-Lapse Play Back by Day, Week, Month or Year
Machine to Machine Self-Healing Technology Automates Maintenance of Camera Up to 288 Times Daily
Account Security Features Include Four Levels of Password Protection, IP Address Block / Permission and SSL Protection of User Login Password
All Images are the Copyright of the Client and Protected on Secure Servers Owned and Operated by the System Vendor**