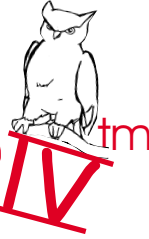


# Colorado Video

*"Unique Video Instrumentation"*



## Observer<sup>IV</sup><sup>TM</sup>

## gprs remote site camera

Observer IV is a weatherproof, battery operated, snapshot camera that uses GPRS cellular internet service offered by GSM cellular providers including AT&T and T-Mobile, to transmit JPG images to any designated FTP (File Transfer Protocol) or SMTP (email) server. Images can be acquired according to schedule and/or upon external triggers such as motion sensors or trip switches. Once Observer has transmitted them to the server, images can be viewed, managed, archived, and served to other web clients.

### applications

**Construction Site Monitoring** Observer IV offers a sensible means to visually monitor construction sites on a continuous basis. Simply mount the camera in a location suitable for acquiring the pictures you require. Keep a watch over work progress and valuable equipment. Observer is easily moved as construction progresses and your visual monitoring needs change. Observer can easily move with you as you complete jobs and start new ones.

**Ferryboats, Dredges and other Marine Craft** Observer IV is ideal for installation on boats because it uses wireless service that covers an extended region, as much as 40 miles out to sea! Simply position Observer in a location suitable for acquiring the pictures you require from your vessel. Observer can help you monitor dredging progress.

**Special Events and Resorts** Are you promoting a special event with a web site? Observer IV is the perfect way to put up-to-the-minute snapshots of your event on the internet. Observer has even been used to make live wedding snapshots available to friends and relatives who couldn't personally attend. Resorts can move Observer IV around as different events require.

**Law Enforcement** Observer can help you watch for graffiti, vandalism, marijuana cultivation, and trespassing incidents. Law Enforcement organizations use Observer to "stakeout" remote sites.

**Geology and Forestry** Observer IV can assist spotting and monitoring of rockslides, floods, fires, wildlife, and vandalism.

**Aviation** Aircraft are valuable assets, frequently left unattended at General Aviation airports. Observer can help you keep an eye on your airplane. Observer can also supply pilots making a difficult go/no-go decision with a helpful picture of the current weather conditions at a distant airport.

**Pipelines** Frequently, pipelines are located where wiring for conventional video cameras isn't practical. Observer can help you view a pipeline where you otherwise might not be able.

**Gain Peace of Mind** View remote assets such as vacation homes, aircraft, oil wells, utility infrastructure, or parking facilities with Observer IV. An external event, such as motion, can trigger Observer IV to snap and send pictures to your server or it can send snapshots on a scheduled basis.



# general description

Observer IV is a weather proof, battery operated unit constructed in a painted aluminum chassis. An acyclic window at one end provides protection for the camera lens inside. Controls and interface connectors are behind a cover at the other end. The GSM antenna mounts directly on the top. The camera is mounted by means of a standard 1/4-20 threaded hole in bottom of the chassis. Five AA batteries, adequate for hundreds of pictures depending on type, are accessible through a bottom access panel.

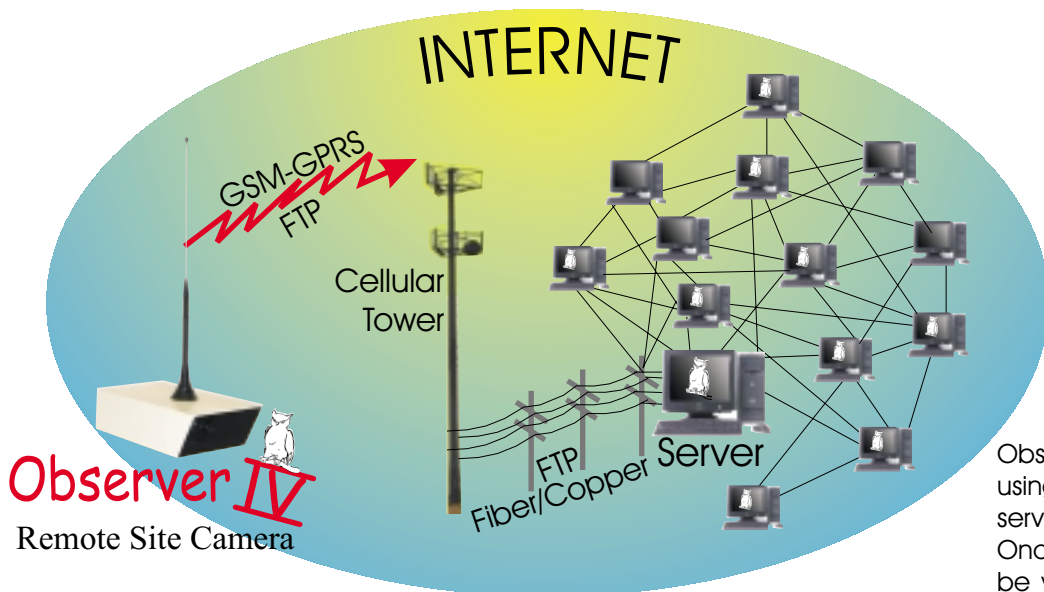
GPRS data service must be established for Observer IV before snapshots can be transmitted.

Operational settings for Observer IV are made using a common browser running on a computer connected to the camera through an RS-232 port before final installation. These settings include exposure, picture quality, color balance, picture size in pixels, transmission schedule, external trigger, time, date, day, GPRS account settings (APN and PIN), and FTP SMTP server settings (IP addresses, folders, and passwords), and new-picture notification settings (SMS and email).

External connections include provision for external DC power (4 to 15 VDC), external trigger, and external lighting control that enables the camera to activate lighting for the short time necessary to acquire an image.

## specifications

|                       |   |
|-----------------------|---|
| Model:                | Observer IV 454GPRS   |
| Enclosure:            | Weatherproof painted aluminum with 1/4"x20 threaded mount   |
| Dimensions            | 4"W x 8.63"L x 2.63"H excluding antenna   |
| Image resolutions:    | 320 x 240 or 640 x 480  |
| Lens Options:         | 4.5mm (43° FoV), 6.0mm (33° FoV), 12.0mm (17° FoV), 16mm (13° FoV)<br>Lenses to pass IR are available for increased night capability. |
| Image format:         | JPEG with adjustable compression level  |
| Power requirements:   | 5 AA batteries or 4 to 15 volts external DC power   |
| Current:              | 130mA rms standby, 300mA rms transmit (1A peak), at 5VDC  |
| External Connections: | +DC Power, Ground, External Lighting Control Output, External Trigger Input   |
| Output signal:        | GSM-GPRS Quad Band Cellular, 850, 900, 1800, 1900 MHz   |



Observer IV transmits jpg images using FTP or SMTP via GPRS cellular data service to any internet server. Once stored on the server, images can be viewed, archived, managed and served to other web clients

\*Specifications subject to change without notice. 8/06