37 SOUTH

XCAM-001®

JPEG Still Image Capture Camera

- **SEWER-MANHOLE MONITORING**
- **STREAM FLOW & LEVEL MONITORING**
- **FLOOD WARNING**
- **REMOTE DEVICE MANAGEMENT**
- **REMOTE IMAGE CAPTURE**

XCAM-001

Designed for direct "plug and play" connection to the Site Sentinel® X1-002-DA Data Logger, our XCAM-001 IP68 JPEG Still Image Capture Camera is an outstanding accessory option.

An alarm sent to a SCADA Host from a field device is of great value to Control Room Personnel to alert a fault condition or other issue at the site. A colour image taken and sent to the Control Room at the same time could be of even greater value, a picture can be worth a thousand words in determining a fault condition, public safety issue or to simply provide "visual" evidence/confimation to back up the generation of an alarm signal sent to a control room from the field device.

The XCAM-001 is ideal to add further value to Site Sentinel® deployments where you are monitoring a range of I/O signals in applications such as:

- Creeks, streams, rivers, waterways and flood prone areas
- Tanks, open channels, retarding basins, sewer wells and trash racks
- Railways tracks (rail kink), culverts, flood prone level crossings, monitor level crossing boom gates
- Other general site security requirements back to Control Room/ SCADA etc.

Multiple Trigger Options Include:

- Take photo on change of Digital Input State (i.e. high-level float switch)
- Take photo on breach of Analog limit alarm (i.e. high or low water level)
- Take photo every time device reports to host (i.e. timed schedule)
- Take ad-hoc photo and send back when remotely requested by user/SCADA Host
- Take photo only at certain times of the day (i.e. controlled by ClearSCADA Calendar Schedule)
- Any or all of the above combinations can be configured

Camera Features:

- Camera is powered by the Site Sentinel® logger
- IP68 Rated Housing, single cable connection to the Site Sentinel® Comms Port
- White LED or Ifrared LED lighting array for illumination of the target area
- Provides high quality 640x480 JPEG image, time and date stamped and sent via FTP to your server
- Ease of integration into SCADA Host Mimic screens such as ClearSCADA or cloud based visualisation tools
- Low power consumption designed for use in battery only or battery/solar deployments

TECHNICAL SPECIFICATIONS

Image

Picture Size	640 x 480 Pixels
Picture Type	Colour
Picture File	Standard ".JPG" image file (typical max. file size is 40KB), file name is time/date stamped
Image Sensor	CMOS VGA colour sensor with JPG compression processor
Focus Type	Fixed Focus factory set (not user adjustable)
Viewing Angle	Fixed 56 Degree viewing angle (not user adjustable)

Image Controls

White Balance	Automatic
Brightness	Automatic, 4 manual bias modifiers (2 above and 2 below "Normal")
Contrast	Automatic, 4 manual bias modifiers (2 above, and 2 below 'Normal')
Exposure	Automatic, 4 manual bias modifiers (2 above, and 2 below '0')
Tuning	Local configuration / picture setup (Brightness / Contrast / Exposure) via Configurator M+ Device configuration software or Remote configuration via ClearSCADA®

Illumination

"-WH" Option	6 x White LED Array, 550 nm wavelength, 4080 mcd light intensity output, 34 Degree beam

Other

Power Supply	Regulated 5 Volts DC, power is provided by Site Sentinel® X1-002-DA Communications Port
Power Draw	Approx. 250 mA with camera and LED illumination on
Mounting	Supplied with powder coated stainless steel mounting bracket and stainless-steel fixing hardware, provides multiple mounting options, M4 diameter fixing screws, 46-70mm Dia. Stainless clamp
Connection	Supports direct connection to Site Sentinel® X1-002-DA Logger RS232 Comms Port
Cable	Supplied with factory terminated and UV rated 8 metre plug-and-play connection cable
Environment	IP68 Protection, fully potted design, -20 to +85 °C Operating Temperature range, 0-95% Rel. Humidity (non-condensing)
Dimensions	Nominal 40mm diameter, 50mm depth, not including cable gland or mounting bracket
Compatibility	Requires Site Sentinel® X1-002-DA Logger running Firmware Version 3.376 or higher

Ordering Options

XCAM-001-WH	Site Sentinel® XCAM-001 JPEG Still Image camera, with White LED Array, stainless steel mounting bracket and fixing hardware and 8 metre plug-and-play connection cable

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