



**OSIL instruments  
and systems**  
—  
GPRS camera system



A versatile and low power GPRS camera system that can be linked with any external sensor. Still colour pictures can be taken on a timed schedule, on demand, or when the sensor is activated. Photos are transmitted by MMS, email or FTP.

The system is ideal for users who want to put a double check in place in advance of mounting a full scale response to an event alarm such as e.g. hydrocarbon alert levels. This prevents a costly response being mounted when it may not be necessary and ensures that there is a photographic record of the trigger event, which could be used as evidence in the case of e.g. fly tipping, pollution events.

Examples of sensors that could be linked with this system (available from OSIL include):

- **Oil spill detector**
- **Turbidity sensor**
- **DO sensor**
- **Level Monitor**
- **Multiparameter Sonde**
- **Meteorological Sensors**

The camera is housed in a vandal proof IP67 enclosure that can be equipped with a variety of interchangeable lenses to suit various applications (narrow, wide angle, low light, normal light). The camera can be setup wirelessly using the integrated Bluetooth communication, and there is an internal GPS sensor that allows for location tracking, making installation/configuration easier in hazardous/hard to reach areas.

The camera can be powered by a 12v lead acid battery which can be linked with a solar panel backup/trickle charge. The power consumption of the system is less than 200mW when idle, and an early low power warning is sent automatically by SMS, email, FTP or data centre, allowing for on-site maintenance to be scheduled in advance. The camera has internal backup storage for up to 100,000 images, and can be linked with additional sensors or networks. An optional motion-activated PIR sensor is also available for the system. Photos can be taken on demand when a request is received by SMS, email, or FTP.



#### CAMERA SPEC

|                    |                 |
|--------------------|-----------------|
| Optical format     | 1/3.2           |
| Full resolution    | 1600 x 1200     |
| Digital zoom       | 10              |
| Active pixel area  | 4.73mm x 3.52mm |
| Shutter type       | Rolling shutter |
| Scanning           | Progressive     |
| Image area         | 3.6 x 2.7mm     |
| Dynamic range      | 71d             |
| Power down current | < 1ma           |

#### CAMERA LENS SPEC

|                      |   |
|----------------------|---|
| Focal length         | 3.6 mm  |
| Back focal length    | 5.5mm   |
| Angle of view (Diag) | 120°  |
| F No.                | 1.8   |
| Iris                 | Fixed   |
| Lens construction    | 4 element glass with IR filter. The lens can be easily changed to suit the application from narrow to wide angle and low light to normal light. |

#### GSM/GPRS CONTROLLER SPEC

|             |   |
|-------------|---|
| Temperature | -25°C to +50°C  |
| Power       | 9 – 25V nominal 12V<br>200mW idle<br>4W during voice or data call                               |
| GSM/GPRS    | Quad band<br>850/900/1800/1900<br>GPRS class 10<br>Call forwarding<br>Call barring              |
| GPS         | 42 channel receiver<br>Sensitivity –160dBm  |
| Interfaces  | 1 x Input<br>1 x open collector output for IR lamp<br>Battery monitoring<br>Low light detection |

**For more information please visit our website [osil.co.uk](http://osil.co.uk)**



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