

### Solar 3G Construction Web Camera Systems

#### Description

Solar powered and wireless 3G internet connected IP web camera systems that are truly stand alone camera systems that can be deployed without any connection to fixed infrastructure so they are ideal for installation prior to any works taking place on a construction site. They provide the ability to record multiple time lapse image sequences of a project from a single camera system that stores the images locally as well as uploads them to a web server for direct viewing by project managers and stakeholders via any internet connection. In addition the cameras can be accessed remotely by project managers to view the live video feed of the project or to modify system configuration.

#### Origination and Usage

These camera systems have been developed in Melbourne Australia by brothers Stewart and Matthew Rees operating as ANSO Web Camera Systems. Utilising their vast experience in web development, high resolution IP web cameras, solar power deployment and 3G wireless internet, they have packaged all of these elements into one complete system that is the ideal time lapse recording, remote monitoring and stakeholder involvement camera system.

These camera systems are currently used by many of Australia's largest construction companies as well as some overseas organisations for over two years and their value to large scale projects has been proven through their multi-purpose use, heavy industrial construction and longevity in some of the harshest environments.

Currently deployed for time lapse recording, remote monitoring and stakeholder involvement on well over A\$ 2 Billion worth of construction projects. Until now this technology has been previously unavailable anywhere in the world. It is currently deployed in multiple countries and is being considered for deployment by construction companies in many more countries world wide.

A selection of current clients and their projects where these camera systems have been used or are currently in use are as follows:

- Abigroup Limited: Gladstone LNG Plant Seawall Expansion(A\$ 116 Million), Pacific National Railway Expansion(A\$ 80 Million)
- Mirvac Group: Chifley Square 30 storey commercial building in Sydney CBD (A\$ 60 million)
- Xstrata Coal: Ravensworth North Open Cut Mine (A\$ 1.4 Billion)
- AGL Energy: Bluff Wind Farm South Australia (A\$ 120 Million)
- Broad Construction Services: Sydney Children's Hospital CAMHS Building (A\$ 20 Million)
- Becton Property Group: Diversity Waterloo Apartments, Sydney
- Space Exploration Technologies – Vandenberg Air Force Base USA ( Construction Project Classified)

#### Innovations

These camera systems have revolutionised the use of construction cameras in the following ways:

- Solar powered and wireless 3G internet connected for truly stand alone deployment
- Integrated HD+ high resolution IP web camera technology
- Multi-stream recording for capturing multiple time lapse sequences including separate timed events and zoomed in areas versus total view images from a single camera system
- Live remote monitoring for project managers via any internet connection
- Remote access to cameras via the internet for configuration changes including time lapse sequence modifications, image upload configuration or onboard video capture
- Automatic upload of time lapse images direct to web and loaded into a customised website platform for viewing by all stakeholders with different permission levels.
- Multiple image storage locally on the camera systems, uploaded to multiple web servers or emailed to project managers and stakeholders
- Industrial design and construction for long term deployment in harsh conditions
- Currently deployable in most countries using 3G internet standards GSM/GPRS/EDGE/HSPA
- Available with integrated weather stations for remote monitoring and logging of live weather conditions via the internet.

<http://webcamerasystems.com.au>

**CONSTRUCTION  
TIME LAPSE &  
REMOTE MONITORING  
SYSTEMS**

ANSO Sentinel V-Series 2Mp HD Solar 3G Outdoor Web Camera System with day/night variable focus lens. (1920x1080px, 16Gb onboard storage)



ANSO Sentinel M-Series 3.1Mp HD+ in use on large scale construction project, South Island, New Zealand.

**The RANGER**  
HD+ SOLAR 24HR 3G WEATHER WEB

ANSO Sentinel M-Series 3.1Mp HD+ Solar 3G Outdoor Web Camera System with interchangeable fixed lenses. (2048x1536px, 32Gb onboard storage)



ANSO Sentinel V-Series Solar 3G Stand-alone Outdoor Web Camera System mounted at 12m on commercial shopping centre construction project.



ANSO Ranger M-series with single lens HD+ camera and integrated Davis Vantage Pro sensor suite for live images and 24hr live weather data and forecasts to web.

**Live View**



**Dynamic Viewer Website**

