

Mobile Communications Hub

Trailer Mounted, Solar Powered Wi-Fi Hotspot



Cap-Sat Technologies provides a cost effective solution to extending communications coverage in remote locations. Fully customisable, the trailer mounted hub is solar powered and creates a mobile Wi-Fi hotspot. Additionally, CCTV cameras mounted on the unit provide a security monitoring system, which can be streamed live from any location.

Portable Wi-Fi range up to 100km

Cap-Sat's mobile communications hub is designed to work with the site's existing communications infrastructure. It provides a simple and economical option to extend coverage, with a range of up to 100km. The system avoids the installation of expensive communications equipment typically required to manage expansion at remote sites.

24 Hour Coverage

Solar panels mounted on the trailers provide an economical power supply to the units. These are supported with on board battery storage banks, enabling the Wi-Fi and CCTV to operate 24/7. Wide angle Wi-Fi antennas retain the signal when the unit is being moved, as long as the line of sight to the main communications link is maintained.



Security CCTV range up to 10km

Site security and operational activity can be monitored up to a distance of 10km away with high quality CCTV cameras mounted on the mast of the trailer. Typically a single camera is mounted on the unit, however this can be customised according to site requirements.

Live Streaming Security Monitoring

Site activity can be monitored live from any location. A Network Video Recorder (NVR) is used to stream high quality recordings directly from the trailer to the site's security network in real time. Alternatively, a Digital Video Recorder (DVR) is fitted to record the area. Footage can be accessed via computer, smart phone or tablet anytime. If a network connection is unavailable, usb ports enable data to be downloaded for viewing at a later time.

Fully Customisable

Cap-Sat technologies develops and configures individual solutions for their clients. Consultation with customers ensures each system meets the specific requirements of the site. Site distances, topology and existing communications infrastructure, as well as battery storage, number of cameras and solar panels required, are considered for each system.

Flexible Solution

Cap-Sat's mobile communications hub's are easy to mobilise, and can be simply moved to a new location when required. They are ideal

where communications access is required temporarily, including in the pit or for temporary accommodation camps. The system can also be configured with conventional power and fixed at the location where longer term solutions are needed. It can also operate on 3G network.

Monitor site safety

Cap-Sat's vehicle mounted safety surveillance system records worksites from different angles using cameras mounted on vehicles. Used in conjunction with the mobile communications hub, safety systems and procedures on site can be monitored remotely.



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Cap-Sat Technologies is an established communications integration specialist for companies operating in remote locations. It's expertise in next-generation networking provides innovative and cost effective solutions for clients where established communications infrastructure is unavailable or unreliable. Cap-Sat has existing operations throughout Africa and around the world, providing local personalised service with global support and resources.