

Multi Purpose Platform

Versatility,
Squared



An all-in-one sensor mounting platform

Providing versatility, the Multi Purpose Platform (MPP) offers a mounting platform for a variety of different sensors and equipment.

The platform has been designed with modularity in mind and can be configured for various user requirements. With advanced tamperproof mechanisms, the MPP is purpose built for the most challenging of operational conditions.

Hardware



Sensor Options

CAMERA SYSTEM

The MPP is able to host Reutech's powerful Slope Vision solution. This high quality Internet Protocol camera makes use of existing on-site data networks to provide both visual and video capturing capabilities. When installed on the MPP, a fully mobile and self-sufficient solution is realised. Extensive research, in collaboration with our industry partners, has proven that the MPP fitted with Slope Vision offers clients unprecedented flexibility and benefits.

IN PIT ALARM SYSTEM

The increased focus on extreme mobility in rapidly changing mining environments, has produced the need for mining personnel to rely on secondary alarming device as an extra measure of precaution. The MPP in an In Pit Alarm Configuration meets this need by providing both visual and audible alarm capabilities. These secondary alarms are remotely activated when either one of the primary dual user-defined alarms are triggered on the MSR. The In Pit Alarm System is paired to a MSR via a high-speed wireless data link, allowing it to be deployed anywhere within the mine.

PERSONAL ALARMING DEVICES

The MPP can be configured to host the Personal Alarming Device (PAD) transmitter. The PAD is a small wireless communication device that displays alphanumeric messages accompanied by audible and vibrating alerts. This is a suitable option for users whose critical monitoring activities require the immediate alert of certain groups of operators in the form of a customised message. The MPP must be within 600m of PAD's. Multiple PADs can be paired with a single MSR.

WiFi REPEATER STATION

The MPP, when configured as a repeater station provides a dedicated high speed network link for reliable data transfer. The MPP connects to all devices within a 360° radius located within a 500m line of sight through an omnidirectional antenna that radiates radio wave power uniformly in all directions. With the use of a directional antenna the MPP is able to connect to all devices within a 4km line of sight. Data is relayed from the MPP to the closest access point by means of a second powerful directional antenna. Multiple repeater stations can be linked together to establish a high speed wireless connection to devices deployed in even the most remote parts of an operation. Power supply autonomy is achieved through on-board batteries charged by high capacity solar panels, offering maximum uptime and minimal maintenance. The mobile nature of the MPP promotes flexibility as the network can easily be relocated to adapt to rapidly changing operational requirements.

Technical specifications

POWER SUPPLY TO ON-BOARD BATTERY BANK

- Solar Panels: Standard to battery bank
- External Power: Optional

MAST

- Length: 4.5m || Payload: 10kg || Hand air-pump

TRAILER

- Off-road chassis: Mild steel - hot dipped galvanized
- Axle strength: 2 500kg braked axle with auto reverse coupler and handbrake
- Wheels: 2 x 6 Hole 139.75 pcd steel rim, 215r15 tyres (1 spare optional)