

Line of Sight Camera Assist

The Ya Batho LOSCA (Line of Sight Camera Assist System) is a ruggedised visual assistance and wireless video distribution system designed for remote operation of mining and industrial machinery. LOSCA provides operators with real-time camera visibility when driving, loading, and tipping equipment operated remotely, improving safety, accuracy, and situational awareness.



Key Features

- Supports up to four rugged IP cameras per LOSCA unit.
- Integrated Ya Batho M-Cube Wireless Access Point for live video streaming.
- Real-time camera feeds delivered to a tablet mounted on a remote controller.
- Improves operator visibility in blind spots, loading zones, and tipping areas.
- Reduces reliance on spotters and improves operational safety.
- Rugged enclosure suitable for harsh underground and surface mining environments.

Technical Specifications

System Type	Line of Sight Camera Assist System
Maximum Cameras	Up to 4 IP Cameras
Camera Type	Rugged IP Cameras (ONVIF / RTSP compatible)
Wireless Connectivity	Integrated Ya Batho M-Cube Access Point
Video Streaming	Real-time IP video streaming over mine Wi-Fi
Operator Interface	Tablet mounted on remote controller
Power Distribution	24vDC - Centralised internal power distribution
Enclosure Material	Diecast Aluminium Enclosure
Environmental Protection	Rugged, sealed enclosure
Operating Environment	Underground and surface mining

Typical Applications

- Remote operation of LHDs, loaders, dozers, and mobile plant
- Remote driving in low-visibility or no-line-of-sight conditions
- Remote loading at draw points and stockpiles
- Remote tipping into ore passes, crushers, or bins
- Hazardous or restricted-access mining areas

System Overview

LOSCA aggregates multiple camera feeds into a single rugged enclosure mounted on mobile or fixed equipment. The integrated M-Cube Wireless Access Point securely streams live video over a wireless network to a tablet mounted on the operator's remote-control unit, providing immediate visual feedback during machine operation.

