

DATASHEET

SMH-500 Series

SMART SAFETY HELMET



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monitor :: optimize :: revolutionize

Key Features

- **High-Resolution Camera Processing** – Supports CMOS camera input and video processing up to 5- megapixel resolution.
- **Hardware Video Encoding** – Integrated H.264 / H.265 hardware encoding with multiple-stream support.
- **Advanced Image Processing** – HDR, 3D noise reduction, auto exposure, auto white balance, lens correction and image enhancement.
- **Wireless Connectivity** – Integrated Wi-Fi and Bluetooth Low Energy for wireless camera-system connectivity.
- **Intelligent Processing** – Integrated intelligent engine supporting motion detection and privacy mask.
- **Smart Helmet Application** – Designed for maintenance-team work monitoring, live video monitoring, work-site visual inspection and real-time worker guidance.

Technical Specifications

Camera	5MP Fixed focus lens
Camera FOV	130° optical lens
Wi-Fi	Dual band 2.4GHz/5GHz supports 802.11 a/b/g/n 1x1
Audio	2-Way Audio, Built in 3.5mm audio jack
Video	High resolution up to 2K
Power Input	5V DC nominal (±5%)
Battery	3.7 V 2500mAh Polymer, 5 hours of backup
Charging	Built in Type-C USB port
Memory	Support SD card capacity upto 2TB
Operating Temperature	-20°C to +60°C
Firmware update	OTA
Helmet material	HDPE (High Density Polyethylene)
Helmet Adjustable range	Ratchet fit

Applications

- Electrical maintenance & troubleshooting
- Machine Inspection
- Equipment Installation & Commissioning
- Remote Technical Assistance
- Worker safety monitoring
- Incident recording

BUILT FOR INDUSTRIAL FIELD OPERATIONS

Hands-free visual support for inspection, maintenance and remote collaboration.



KEY BENEFITS

- **Hands-free visual inspection**
Capture the worker's field of view during field tasks.
- **Live video monitoring**
Support visual monitoring when the system is connected.
- **Two-way audio**
Enable communication with compatible audio setup.
- **Work documentation**
Create visual records of inspections and maintenance.

LET'S DISCUSS YOUR INDUSTRIAL APPLICATION

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