



HxGN MineMeasure Detect



Empowering an autonomous future for the mining industry

HxGN MineMeasure Detect is the best-in-class 3D camera hardware, software and data solution enabling the realization of value from real-time quality decision making.

The solution uses automated digital analysis to enable operators to maximize consistent throughput while responsibly managing inputs.

Operational Conditions

Temperature

- -10 to 50 degrees C for Camera
- -75 to 90 degrees C for LED Banks
- -10 to 50 degrees C for Control Box

Environmental

- Minimal dust
- Low vibration
- No direct ambient light

Power & Cabling

- 110 to 240 VAC 50/60hz within 9m (30 ft) of camera location
- Surge protection and UPS backup
- CAT5E from network to Camera Control Box
- CAT5E from Camera control box to Camera unit
- 24 VDC from control box to LED banks and Camera Unit

Physical Dimensions & Installation

Control box

- 500mm (19.7 in) x 600mm (23.6 in) x 218.15 (8.6 in)
- Must be within 9m (30ft) of Camera location

Camera Unit & LED banks

- 500mm (19.69 in) x 609.6mm (24 in) x 609.6mm (24 in)
- Must be mounted 1m (3 ft) above conveyor belt
- Must be parallel to conveyor belt

Networking

- Connection to existing network
- Static IP Assigned for Control Box
- HTTP communication from control box to network
 - Control box Windows based OS
- OPC Client and OPC Sever



Integration into Programmable Logic Controllers (PLCs)



Volumetric Analysis for reconciliation and evaluation of fines, density, hardness



Fragmentation for process optimization



Real-time Oversize Detection to avoid catastrophic production stoppages



Ore Identification through Color Analysis

Connect with Us

Digital transformation demands more than partial solutions. Hexagon is the complete solution, connecting all parts of your mine.



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