

Oculus100

AI camera sensing for accurate detection of untagged pedestrians and vehicles



The Titan Oculus100 is a 1st generation AI Camera system designed for mining applications. It integrates a state-of-the-art Vision Processing Unit (VPU) to provide real-time object detection and ranging using stereo vision. This system extends the CAS capabilities, enabling the detection and ranging of both tagged and non-tagged pedestrians and vehicles.

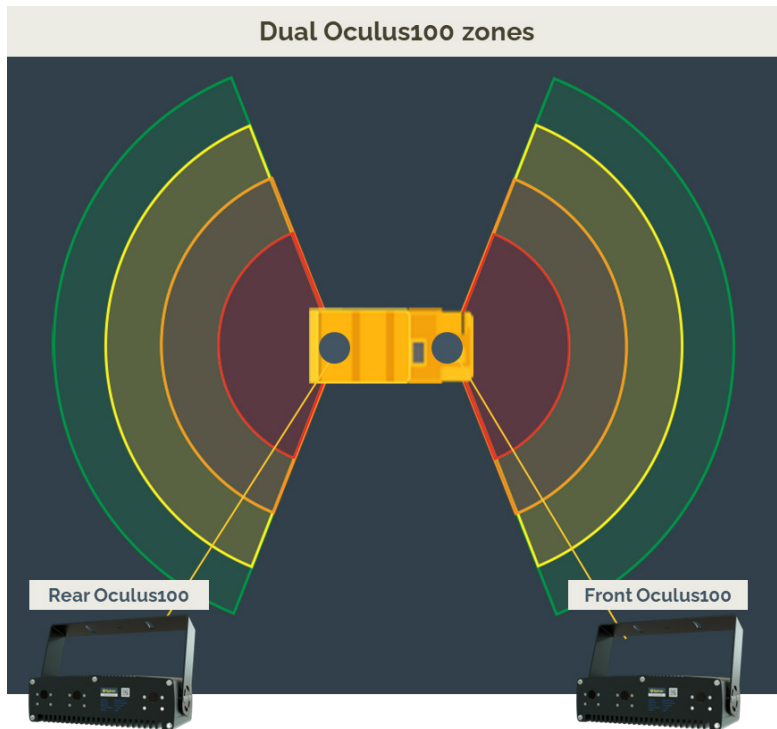
Main benefits

Real-time object detection. Utilizes advanced VPU technology for instantaneous object detection.

Stereo vision. Employs stereo vision to enhance depth perception accuracy and reliability in object detection.

Comprehensive detection. Extends the capabilities of the CAS for detecting both tagged and non-tagged pedestrians.

Enhanced safety and efficiency. Real-time monitoring and response to objects with timely detection of potential hazards.



Functions

- Pedestrian detection and ranging (tagged/non-tagged)
- Vehicle detection and ranging (tagged/non-tagged)
- Obstacle detection and ranging (tagged/non-tagged)
- Lens-Cover Detection
- Berm Detection
- Live Video Feed

Features

- Unique identifier (MAC)
- Data logging
- Video recording
- Wi-Fi
- 1Gb Ethernet
- CAN FD
- Passive depth sensing
- RTC with battery backup
- IMU

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