

Diamond

Facilitating Defense and Situational Awareness for Armored Fighting Vehicles

The Diamond platform provides 360° 3D situational awareness and advanced airborne threat protection, integrating up to 11 HD and SD camera inputs. Powered by dual AI acceleration, it enables real-time monitoring across all cameras simultaneously, delivering instant alerts on potential threats. Designed for mission-critical environments, Diamond enhances threat detection and response for urban and open terrain combat, supporting Armored Fighting Vehicles (AFVs), observation posts, and various defense and surveillance applications.
This high-performance platform ensures defense teams are equipped with precise, actionable intelligence to navigate complex operational challenges.



Key Features

- Modular system with powerful multimedia processor and AI acceleration, ~60 tops AI
- Voice alerts on display speakers and internal radio systems
- Integrates with weapons and active protection systems for immediate threat response
- Day and night protection via IR or thermal cameras
- Full HD
- Storage of up to 2TB
- Integration of 11 cameras – 5 X IP, 3 X Analog, 3 X HD/SDI
- Multi-camera surround and 3D coverage
- Power consumption: 28–35 watts, including 5 IP cameras (depending on the IR camera) Input voltage is 24V

Key Benefits

- Full situational awareness coverage delivering 360° 3D coverage, including airborne views, with precise, AI-driven threat detection and classification to maximize operator safety
- AI-enabled, incorporating edge computing, providing intelligent, real-time analytics and decision-making capabilities
- Optional recording for post-event debriefing and deep learning
- Continuous recording, enabling pre and post-event debriefings and continuous improvement of the AI model through raw video recording
- Rapid installation, easily upgradable and requires low maintenance
- Simple and immediate touch-based UI
- Ultra-low latency, ensuring real-time video transmission for mission-critical applications

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