

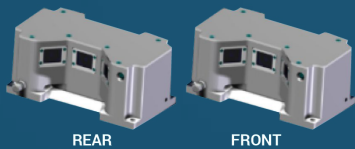


EDGE 360

Automated 360° AI situational awareness
Fully autonomous driving in offroad



DRIVER CAMERA



3 in 1 - Day & Night - Fusion

AI EDGE 360 CLUSTERS



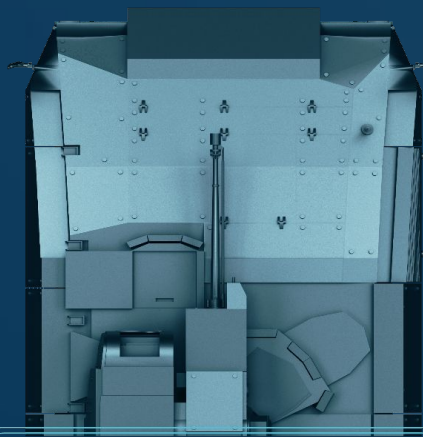
axon

Full HD - day VGA -
LWIR Fusion

SAVS



Situation Awareness
Video System



SSD - Video and Audio
Recording

Video Combiners

AI Central

Processing Unit

Video Server

Gunner
Sight

Commander
Sight

17" HD DISPLAY X2



Commander

Gunner

D3LAD FOR DRIVER



AI RECORD BOX



17" HD DISPLAY



Crew

AI POWERED 360° REAL-TIME SITUATIONAL AWARENESS SYSTEM

Product description

A real time, AI based decision making solution. Enabling the commander to operate continuously with closed hatches, while providing him complete situational awareness from the nearest circuit (LOS) in a single view. The Edge 360 reduces the cognitive load and required attention while maximizing the lethality and survivability of the vehicle. The product is a modular system contains AI clusters (Day/Night Camera, GPU and AI algorithm) and central unit.



Key Features

- Automatic target recognition, automatically track and detect static and dynamic targets
- Real-time video communication distribution system with very low latency
- Modular architecture that each component can be integrated into existing situational awareness systems
- Decentralized embedded GPUs architecture combined with central processing capabilities
- Vast connectivity to extend input circles
- AI recording Kit
- Distance estimation using EO and TI sensors
- Action recognition for threat detection
- 360° tracks fusion keeps track on crossing targets
- Intuitive UI Decision making engine in a single view
- Customizable alert mechanism
- Multi-channel stream compatibility, support EO, LWIR, MWIR, SWIR sensors

EDGE 360 SYSTEM



AI Cluster

Sensors	Global Shutter EO, VGA LWIR TI
AI Computation	NVIDIA Xavier™ NX + Optional Hailo-8™
Storage	Optional SSD
I/O (Changes upon request)	HD-SDI, 1G Ethernet, Discretes, VSync

AI Central Server

AI Computation	2 X NVIDIA Xavier™ AGX + 2 X Optional Hailo-8™
Storage	Optional SSD
I/O (Changes upon request)	12 (selectable) input HD-SDI channels, 1G Ethernet, USB, Discretes, VSync
Video Outputs	Upon request

Environmental

OPERATING TEMP	MIL-STD 810E -10°C : +55°C
VIBRATION	V2 PER VITA 47 Tracked vehicle vibration profile
OPERATING SHOCK	MIL-STD 810E 40g/11ms
RELATIVE HUMIDITY	MIL-STD 810E 0 – 100%
DUST/SALT	MIL-STD-810F
EMI/RFI	MIL-STD-461F