

# ARCAS

Assault Rifle Combat Application System



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## Assault Rifle Combat Application System

The Assault Rifle Combat Application System (ARCAS) is a unique computer platform for assault weapons designed for the future infantry soldier. ARCAS provides a wide range of advanced capabilities for enhanced combat lethality, soldier survivability and improved situational awareness, connecting to various applications, reconnaissance networks and combat management systems.

### Flexible design and configurations

ARCAS transforms any assault rifle into a smart weapon. The flexible solution can be modified to existing equipment and customized to operational requirements, offering two configuration options that enable using a thermal or electro-optic sight.

#### ARCAS 1:

System includes a built-in weapon sight



#### ARCAS 2:

Enables use of any weapon sight, as needed



#### Shooting out of position

ARCAS is designed to relay data through the weapon sight.

The images from the optic system are sent directly to the eyepiece and displayed on a cutting-edge user interface with unique digital display technologies, providing the soldier with new shooting options – such as shooting out of position or around corners.

#### Unique operational capabilities

ARCAS features open a world of possibilities:

- Automatic Target Recognition (ATR)
- Video Motion Detection (VMD)
- Smart Navigation
- Fire and Motion Detection
- Range Estimation
- Ballistic Correction



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### Sophisticated applications and advanced technologies

ARCAS supports the development of applications in an open architecture environment, enabling integration of additional assault weapon solutions. The system features a wide range of advanced applications, incorporating advanced sensors, artificial intelligence (AI) software and augmented reality (AR) capabilities.

#### Situational Awareness

- Friend or foe identification
- Connection to C<sup>2</sup>/C<sup>4</sup> systems
- Video anchoring of the scene
- MESH communication

#### Survivability

- Shooting from shelter
- Day camera
- Identifying targets
- Shooting detection
- Movement detection

#### Lethalness

- Cold calibration
- Control of weapon stoppage
- Fire control
- Shooting from the waist
- Automatic passive range estimation
- Day and dusk vision
- Shot counter
- Night vision

#### Additional Capabilities

- Recording
- Compass
- WI-FI, BT
- Internal microphone
- Energy in the strap
- Training mode
- Navigation
- Paramedic assist
- GPS

### Technical Specifications

		17μ ARCAS	12μ ARCAS
Thermal sensor		Uncooled 640x480 17μ	Uncooled 640x480 12μ
HFOV		27°	
Human Target DRI Ranges	Detection	580m	
	Recognition	250m	
	Identification	120m	
Display type		800x600 OLED	
Total weight (inc. batt.)		1000g	850g



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