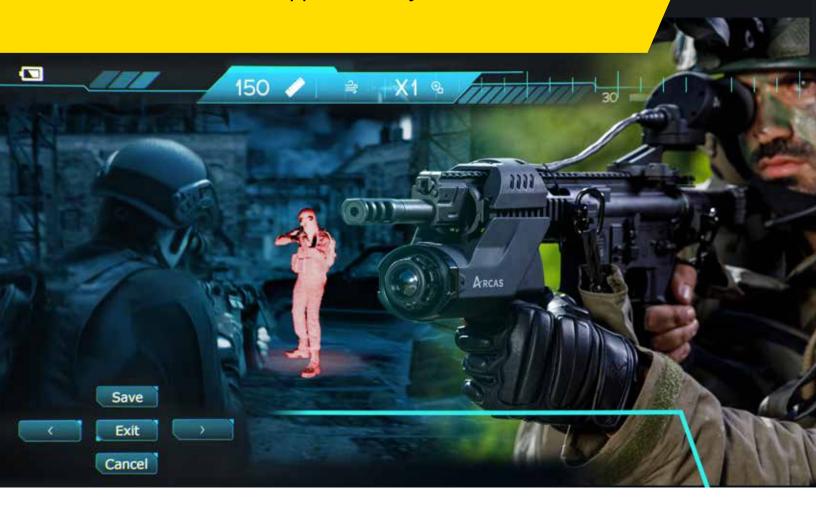
# **ARCAS**

Assault Rifle Combat Application System





# **ARCAS**

## **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

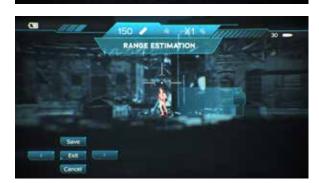
ARCAS is designed to relay data through the weapon sight.

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







## Assault Rifle Combat Application System

## 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.





Friend or foe identification



Connection to C<sup>2</sup>/C<sup>4</sup>I systems



Video anchoring of the scene



**MESH** communication

#### Survivability



Shooting from shelter



Day camera

Movement detection



Identifying targets



Shooting detection



#### Lethalness



Cold calibration



Fire control





Automatic passive range estimation



Shot counter



Control of weapon stoppage



Shooting from the



Day and dusk vision



Night vision



### **Additional Capabilities**



[•REC] Recording



WI-FI, BT



Energy in the



Navigation





Compass



Internal microphone



Training mode



Paramedic assist

## **Technical Specifications**

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



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