

ARCAS

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.



Situational Awareness

- Friend or foe identification
- Connection to C²/C⁴I 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 waist
- Day and dusk vision
- Night vision



Additional Capabilities

- Recording
- Wi-Fi, BT
- Energy in the strap
- Navigation
- GPS
- 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
	Identification	120m
Display type	800x600 OLED	
Total weight (inc. batt.)	1000g	850g



Security & Tactical EO Solutions – ELSEC
 Industrial Area P.O.B 388 Sderot 8701302, Israel
 E-mail: istar@elbitsystems.com www.elbitsystems.com

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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



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.



ARCAS 2:

Enables use of any weapon sight, as needed



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