

How are Arcas optical modules



Overview

Elbit Systems announced on September 9 the unveiling of the ARCAS, a built-in computerized Artificial Intelligence (AI) powered system that interfaces with the rifle's Electro-Optical (EO) sight, with a helmet-mounted eyepiece and with the rifle's assemblies, providing soldiers. Elbit Systems announced on September 9 the unveiling of the ARCAS, a built-in computerized Artificial Intelligence (AI) powered system that interfaces with the rifle's Electro-Optical (EO) sight, with a helmet-mounted eyepiece and with the rifle's assemblies, providing soldiers. HAIFA, Israel – Elbit Systems in Haifa, Israel, is introducing the ARCAS built-in computerized rifle-sight system that uses artificial intelligence (AI) to give infantry assault rifles digital networking capability during the day and at night. It aims to provide range, ballistic and positioning data along with a link to the user's unit battle management system to improve situational awareness.



Article Content

Apr 28, 2026

Elbit Systems Assault Rifle Combat Application System (ARCAS ...

Israeli defense firm Elbit Systems has developed an AI rifle optic/scope called the Assault Rifle Combat Application System, or ARCAS, for short, that can potentially give infantry soldier's a ...

Feb 17, 2026

ARCAS sight will turn an assault rifle into an information combat ...

The ARCAS with a computer is mounted in the front of the handle, and the electro-optical sight is under the barrel. An AI computer reads information from the sight and other ARCAS devices, ...

Jul 10, 2026

AI-Powered, Computerized Solution for Assault Rifles

Designed in an open architecture approach, ARCAS has two configurations. It can include a thermal or low light sight as part of the system, and is capable of interfacing to any existing ...

May 11, 2026

rifle sight artificial intelligence (AI) situational awareness ...

It replicates first-person shooter video games for situational awareness attached to rifles. Its artificial intelligence (AI) talks to the M4's electro-optical sight. ARCAS uses a video camera...

Aug 16, 2025

Elbit Systems' ARCAS – Assault Rifle Combat App System

The attachment incorporates the ARCAS interface as well as an electro-optic – either an FIR (infrared) or LWIR (long wave infrared) thermal imager. This is then linked to either the weapon's ...

Jan 11, 2026

Elbit Systems AI-powered combat information system

Designed in an open architecture approach, ARCAS has two configurations. It can include a thermal or low light sight as part of the system, and is capable of interfacing to any existing ...

May 28, 2026

AI-powered electro-optical sight to provide intuitive combat info

Elbit Systems announced the unveiling of the ARCAS, a built-in computerized artificial intelligence (AI) powered system that interfaces with the rifle's electro-optical (EO) sight, with a ...

Sep 12, 2025

Elbit Systems unveils ARCAS AI-powered and computerized solution ...

Designed in an open architecture approach, ARCAS has two configurations. It can include a thermal or low light sight as part of the system and is capable of interfacing to any existing EO sight.

Apr 16, 2026

Elbit Systems Develops AI-Powered Computerized Solution for ...

Designed in an open architecture approach, ARCAS has two configurations. It can include a thermal or low light sight as part of the system, and is capable of interfacing to any existing EO sight.

Aug 08, 2025

artificial intelligence (AI) electro-optical rifle sight | Military ...

ARCAS interfaces with the rifle's electro-optical sight, with a helmet-mounted eyepiece, and with the rifle's assemblies to provide warfighters soldiers with real-time intuitive actionable...

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For more information, pricing, or custom solutions, please contact us:

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

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