Gun Detection: A Serious Challenge for Security, Risk Management and Law Enforcement Personnel.

OVERVIEW

The Exigent®-GR gun detection capability is based on AI technology developed by Arcarithm for the US Army. The technology was originally developed to detect both drones and guns, based on the concept that a larger operational space allows more reaction time.

TECHNICAL

Current security camera systems require a human to identify gun threats. Even dedicated security professionals using the best camera system cannot provide 100% real-time observation.

An effective, pro-active solution is needed to identify guns before they enter the building and shots are fired.

The Exigent-GR offers that solution. Exigent-GR offers the capability to:

Detect — autonomously detects people with guns as early as possible, before shots are fired.

Identify — instantly analyzes imagery using AI algorithms to determine type of gun (long gun vs. pistol).

Alert — automatically notifies security officials via text message or email showing person with the gun, their location and type of gun.
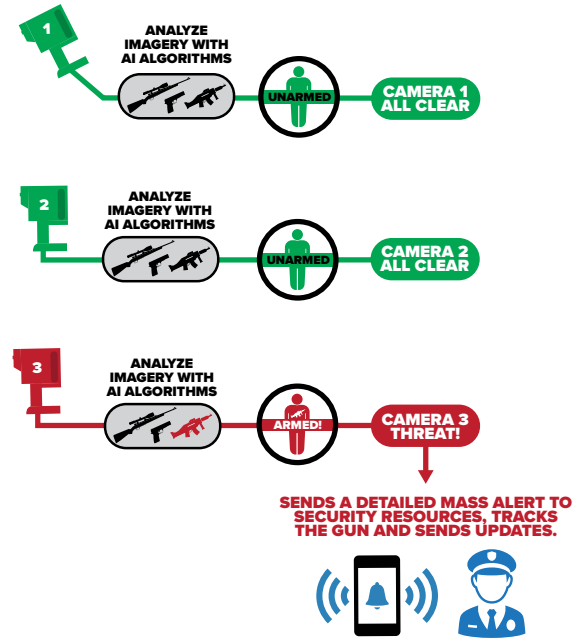
Track — follow the suspect's location in real-time, even if the gun has been discarded.

Stop — If a gun is detected a signal can be sent to lock a door with electronic locks or magnetic locks. If an electronic or magnetic lock is not available a pin can be released to drop into a pre-drilled hole that would place a barrier to opening the door.

Exigent-GR combines state-of-the-art camera technology with sophisticated computer vision in a single robust device that autonomously scans and processes images to identity guns.

How Exigent-GR Works

1 — ANALYZE IMAGERY WITH AI ALGORITHMS → UNARMED → CAMERA 1 ALL CLEAR

2 — ANALYZE IMAGERY WITH AI ALGORITHMS → UNARMED → CAMERA 2 ALL CLEAR

3 — ANALYZE IMAGERY WITH AI ALGORITHMS → ARMED! → CAMERA 3 THREAT!

SENDS A DETAILED MASS ALERT TO SECURITY RESOURCES, TRACKS THE GUN AND SENDS UPDATES.

SECURITY / OPERATION

Exigent®-GR security features include role-based login, application authentication and message encryption. Further, the Exigent-GR Application Programmer's Interface (API) operates inside a docker container isolating the API from the rest of the system as an extra layer of security, while ensuring the software does not conflict with other required system dependencies.

Arcarithm provides required training on how to operate Exigent-GR, and how to understand the output, with onsite training available. A training manual is provided, and Arcarithm provides call center support as well.

SYSTEM REQUIREMENTS

Power	Exigent-GR operates off of facility 110V power
Internet Access	Exigent-GR connects to the Internet via the facility WiFi
Alert Access	Alerts are sent to computers and/or smart phones via the internet

Exigent-GR is installed by Arcarithm trained technicians.

PRODUCT DETAILS

Manufacturer	Arcarithm
Product Name	Exigent®-GR
Version	2020
Manufacturer Part Number	A2020EXGR
Product Type	SAAS
Delivery Method	Hand delivered for installation. Updates provided via remote digital upload, requires access to the internet

ABOUT ARCARITHM

Arcarithm delivers a depth of understanding and operational maturity beyond the capability of most companies. Our experience with every aspect of algorithm design, training, deployment and evaluation allows Arcarithm to produce quality products quickly and effectively, with the highest levels of reliability and accessibility. Arcarithm has been developing and providing services to the U.S. Military for more than seven years.

ARCARITHM®

866-533-1999

randy.riley@arcarithm.com
arcarithm.com