HTDS
Hi-Tech Detection Systems

LaserWarn
Block Engeneering

OPEN-PATH CHEMICAL DETECTION SYSTEM
FOR SECURITY AND SAFETY

- IDENTIFICATION WITHIN SECONDS OF CHEMICAL WARFARE AGENTS AND TOXIC INDUSTRIAL CHEMICALS OUT TO 300 METERS

- WIDE-AREA COVERAGE INDOORS OR OUTDOORS OVER THOUSANDS OF SQUARE METERS USING EYE-SAFE LASERS

- AI-DRIVEN SOFTWARE ENABLES CONCURRENT MULTI-THREAT CHEMICAL IDENTIFICATION

- ABILITY TO LINK TO COMMAND AND CONTROL CENTERS FOR IMMEDIATE ALARM RESPONSES AND REACTIONS

- 24/7 AUTONOMOUS OPERATION

BLOCK ENGINEERING'S LASERWARN IS A LASER-BASED CHEMICAL IDENTIFICATION SYSTEM FOR PROTECTION OF PEOPLE AND FACILITIES AGAINST POTENTIAL CHEMICAL THREATS. THE SYSTEM CAN DETECT MULTIPLE CHEMICALS WITHIN SECONDS OVER THOUSANDS OF SQUARE METERS, INCLUDING CHEMICAL WARFARE AGENTS (CWAS), TOXIC INDUSTRIAL CHEMICALS (TICS), AND EMERGING THREATS.

Powered by eye-safe long wave infrared lasers, LaserWarn provides wide-area monitoring, and can detect gases with different concentrations. Unlike traditional point sensors, LaserWarn allows for rapid detection at a distance. Background chemicals found in the surrounding area are filtered out using AI machine learning algorithms, resulting in pinpoint identification of targeted threat chemicals. A facility that would normally require multiple point sensors can be effectively covered with a single LaserWarn.

LaserWarn has the ability to interface with Common Operating Picture (COP) platforms to provide real-time situational awareness and actionable intelligence. By identifying exact chemical threats, commanders can feel confident that they will respond with the appropriate counter-measures for the situation at hand.

LaserWarn's user interface can provide operators with a simple Green/Red Go/No Go dashboard for instantaneous situational awareness. Should a higher level of detail be required, real-time spectra from gases and threats can be displayed. If a multi-threat scenario occurs, LaserWarn can identify multiple gases simultaneously.

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SPECIFICATIONS

	LaserWarn	LaserWarn Ruggedized
Maximum Path Length	300 meters (one way)	300 meters (one way)
Gases Detected	Most Toxic Industrial Chemicals (TICs), Chemical Warfare Agents (CWAs) and other chemicals that are within the range of the system	Most Toxic Industrial Chemicals (TICs), Chemical Warfare Agents (CWAs) and other chemicals that are within the range of the system
Sensitivity	Varies with gas and distance in path	Varies with gas and distance in path
Response Time	Less than 5 seconds	Less than 5 seconds
Detection Technology	Infrared Absorption Spectroscopy	Infrared Absorption Spectroscopy
Dimensions	Approx. 18 x 14 x 7 inches (46 x 35.5 x 18 cm)	Approx. 41.5 x 19.2 X 11.5 inches (105.5 x 49 x 29.5 cm)
Poids	32 lbs (14.5 kg)	125 lbs (56.7 kg)
Weight	110/220 VAC, 50/60 Hz, 100 Watts	110/220 VAC, 50/60 Hz, 100 Watts
Electrical Power	IP 20	IP 66
Simultaneous Detection of MultipleTypes of Gas	Yes	Yes
Operating Temperature Range	10° C to 30° C	-20° C to 60° C
Installation	Fixed position; Portable configurations available as an option	Fixed position

OPTIONS

• Customized chemical libraries for specific applications. New chemicals can be easily added

• Ruggedized IP66-certified version for harsh environments or a standard configuration for interior use

• Fixed or portable configurations

• Multi-language user interface available depending on customer needs