

A photograph of the IBEX CBRNE robot, a four-legged quadruped robot with a black body and a white sensor head. The robot is positioned in a dark, hazy environment, possibly a laboratory or a simulated hazard zone. A green laser beam is visible in the upper left corner, pointing towards the robot's sensor head. The robot's head is tilted upwards, and its body is slightly angled. The background is a mix of dark and light grey tones, suggesting a complex, possibly hazardous environment. The overall lighting is dim, with the green laser providing a focal point of light.

IBEX CBRNE Robot

Site assessment robot system
for Chemical, Biological,
Radiological, Nuclear, and
Explosive (CBRNE) threats.

PEOPLE
YOU
CAN
TRUST

Tools to keep you safe

MANAGE THE MOST DANGEROUS THREATS – WITHOUT PUTTING LIFE AT RISK

IBEX increases mission readiness by removing the human element from unknown and potentially lethal hazards. Through a remote operator, IBEX can assess hazardous areas, gather detailed intelligence, and identify threats prior to placing a human in harm's way.

Powered by innovation, IBEX is a force multiplier that increases your team's ability to execute missions with precision and safety. IBEX combines automated Raman technology and chemical and radiological sensors into an intuitive platform capable of qualifying and quantifying CBRNE threats.

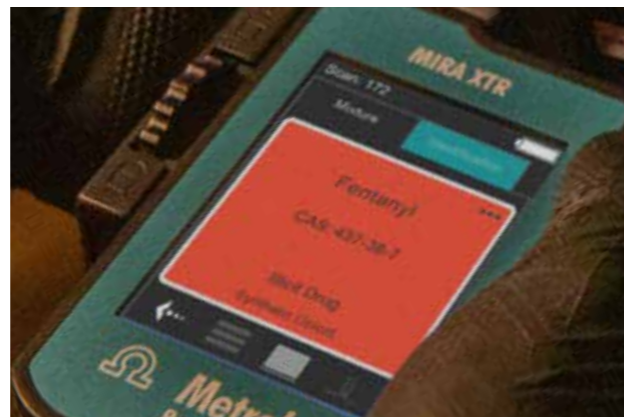
IBEX uses the superior maneuverability of the Spot® robot from Boston Dynamics. Its powerful arm improves mission readiness and effectiveness when performing Sensitive Site Reconnaissance and Exploitation (SSR and SSE) missions.

Quickly Identify Unknown Samples

The most powerful capability of IBEX is chemical identification. Using stand-off Raman technology, IBEX can identify a threat from up to two meters away. Simply aim the laser sight at the material you want to identify and get your answer.



Adapt to an ever-changing threat landscape with the ability to identify tens of thousands of compounds quickly and safely. Easy to interpret sensor readings clearly warn of dangerous threats.



Mission Capable

With a flexible arm, IBEX can open doors, move objects out of the way and collect samples from the hot zone. Whether you are removing samples as evidence or to ensure safety, IBEX is always ready and mission capable.



COMPLETE ASSESSMENT OF THE HOT ZONE

IBEX has the capability to make a full scene assessment quickly and safely. Use the highly maneuverable robot system to access the scene and get detailed information from the unique and detachable sensor pack to understand and mitigate threats.



	Component	Purpose	Benefits
Robot and Arm	Spot Enterprise Robot from Boston Dynamics.	Allows users to enter the hot zone, capture imagery and gather reconnaissance information remotely.	Quadruped robot easily maneuvers over unstable terrain and obstacles. Imagery of the hot zone is sent within seconds of acquisition.
	Spot Arm	Creates the capability to conduct grab sampling operations and obstacle removal in the hot zone.	Extract samples from the hot zone for neutralization or further analysis.
Sensors and Communication	MIRA XTR DS with Autofocus Stand-off	Chemical identification and chemical analysis at a distance.	Test illicit materials from up to 2m away. Large libraries ID over 20,000 CBRNE threats. ORS reduces explosion risk and XTR technology improves accuracy.
	Combustible Gas Indicator	Confirm/deny presence of off-gassing chemical hazards and determine breathable air quality.	Provides information on oxygen levels, lower exposure limits, carbon monoxide and volatile organic compounds.
	Radiation Detector	Confirm/deny presence of gamma radiological hazards.	Detects and identifies airborne CWAs and toxic industrial chemicals/materials.
	MPU-5 Radio	Long distance communication between the operator and the robot.	Conduct remote operations from an extended distance. Integrate into mesh radio networks.