

EXPLOSIVE DETECTION IMASS™ DEVICE



SPECIFICATION SHEET
EXPLOSIVE DETECTION IMASS™ DEVICE
PART No: EX-IMASS

Integrated Multiplex Assay and Sampling System

The explosive detection IMASS™ device provides a crucial advance in rapid explosive detection for military, police, border and other first responders. The device is used to directly sample surfaces, solids and liquids using an integrated sponge. A number of test strips are then run simultaneously from the sample, giving visual results for military explosives and multiple homemade explosive components in 3 minutes. Its unique rugged design* means that the IMASS™ device is straight forward to run and to read, even while in full protective equipment.

■ KEY FEATURES

- + Detects Military Explosives: TNT/ RDX/PETN and their derivatives such as Semtex, C3, C4 and HMX
- + Detects Homemade Explosive Components: Ammonium, Nitrate and Sugar
- + Results in 3 minutes
- + Easy to use in full protective equipment
- + No power requirement
- + Can sample surfaces, solids and liquids

*Licensed from the UK Secretary of State for Defence

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BBI™ Detection

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DETECTION CAPABILITY

The IMASS™ device contains immunoassays which specifically identify TNT, RDX and PETN and their derivatives such as Semtex, C3, C4 and HMX. Colorimetric tests within the device give results for common homemade explosive components; ammonium, nitrate and sugar.

Code	Explosive component detected
T	TNT/TNT derivatives
R	RDX/RDX derivatives
P	PETN/PETN derivatives
A	Ammonium
N	Nitrate
S	Sugar

TEST EVALUATION DATA

Independent validation of the Explosive Detection IMASS was performed by Falcon Communications Limited using liquid standards. Full evaluation report available on request.

Test name	T	R	P	A	N	S
Test material	TNT	RDX	PETN	Ammonium Nitrate	Ammonium Nitrate	Sucrose
Limit of Detection	40µg/ml	40µg /ml	40µg/ml	500µg/ml	5000µg/ml	600µg/ml

TEST INFORMATION:

Part number: EX-IMASS

Shelf life: One year at room temperature

Format: Devices are packaged in boxes of 10, with buffer vials, an instruction booklet and interpretation cards.

Weight and dimensions: Each device is 85g, 14cm x 4cm x 4cm (3oz, 5.5" x 1.6" x 1.6"). Each box of 10 devices is 1.22kg, 26cm x 21cm x 18cm (2.7 lbs, 10.2" x 8.3" x 7.1").

BBI Detection reserve the right to update test information as further evaluation data becomes available.