PATSCAN™ STS
powered by SOTECH SECURE
MULTI-CHEMICAL THREAT DETECTION SENSOR

PROVIDING RELIABLE RESULTS

PATSCAN STS offers the most effective method for the detection, diagnosis and tracking of air-borne trace explosives, chemical warfare agents and volatile organics.
**PATSCAN™ STS**

**PATSCAN STS** proprietary technology is used to rapidly screen extremely complex samples and identify the concentration of chemicals through the use of tunable electronic signals.

**PATSCAN STS** sensors detect airborne trace chemicals with a parts-per-billion sensitivity.

This innovative approach allows detection, diagnosis and tracking of trace explosives, chemical warfare agents and volatile organics.

**PATSCAN STS Sensor Operation:**

**Phase 1:** Small trigger bias voltage applied to device sensor

**Phase 2:** Regenerative nano-textured sensing element activates

**Phase 3:** Interaction of trace elements produces change in measured output which triggers alarm.

**Phase 4:** Sensor element resets with application of reset voltage.
### PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th><strong>SIZE</strong></th>
<th>6” L x 3” W x 2” D</th>
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<tbody>
<tr>
<td><strong>POWER</strong></td>
<td>3.7 Volt LIPO Battery and low-power electronics</td>
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<tr>
<td><strong>CONNECTIVITY</strong></td>
<td>USB and Ethernet</td>
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<tr>
<td><strong>OPERATING TEMPERATURE</strong></td>
<td>0° C to 100° C</td>
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<tr>
<td><strong>CHEMICAL DETECTION</strong></td>
<td>Acrylonitrile, Acetonitrile, Chloroform, Aliphatic Nitro, Aromatic Nitro, Nitramine, Nitrate Ester, Peroxide</td>
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PATSCAN™ STS
Multi-Chemical Threat Detection Sensor

presented by
Patriot One Technologies, Inc.
Unit 302 – 3380 South Service Rd.
Burlington, Ontario L7N 3J5 Canada

patriot1tech.com