

- State-of-the-art mobile radiation detection system provides high-sensitivity gamma and neutron detection, with left vs. right directionality.
- Rugged, slim-lined sensor kit integrates seamlessly with a Chevy Tahoe, while leaving plenty of cargo space for additional gear.
- Provides rapid and reliable isotope identification and alarm categorization, using proven analysis software.
- Features field-hardened, dynamic background compensation to automatically adjust for background variability in urban and rural environments.
- Integrated GPS provides real-time mapping of alarms.
- Wi-Fi network enables secure, remote operation through any authorized, web-enabled smartphone or tablet.
- 3G wireless connection (optional 4G LTE) allows rapid transmission of data to reachback centers.



Technical Specifications

GAMMA SENSORS: Four NaI detectors (two per side). Each 2" x 4" x 16". Energy resolution better than 8%.

NEUTRON SENSORS: Two neutron detector modules (one per side). Each assembly is 4.2" x 14" x 34" and has sensitivity ≥ 1.4 cps/ng for moderated ^{252}Cf at 2 m. Neutron detectors do not rely on ^3He gas.

USER INTERFACE: Panasonic Toughbook for in-vehicle operation, with easy to use touch-screen and visible/audible alarms. System provides proven isotope identification performance and alarm categorization (threat, industrial, medical, NORM). Includes map overlay to show GPS location of alarms.

REMOTE OPERATION: Connects to any authorized, web-enabled smartphone or tablet through a secure Wi-Fi network, enabling the primary operator or additional users to view/operate the detection system at a distance.

REACHBACK: 3G wireless connection (optional 4G LTE) enables system data to be rapidly sent to reachback centers. Software automatically populates key fields for US DHS Joint Analysis Center (JAC) reports.

DIRECTIONALITY: Provides left vs. right side detection, enabling rapid source localization.

BACKGROUND COMPENSATION: Employs state-of-the-art, field-hardened, dynamic background compensation to automatically adjust for background variability in both urban and rural environments.

WEIGHT: 550 lb (complete sensor kit).

POWER: 10-30 VDC (10 Amps maximum, 3.5 Amps steady state @ 12 VDC). Runs off vehicle power.

TEMPERATURE RANGE: Operating temperature -30 °C to $+55$ °C (-22 °F to $+131$ °F). Storage temperature -40 °C to $+70$ °C (-40 °F to $+158$ °F).

PLATFORM: Available as a sensor kit or fully integrated with a Chevy Tahoe. Other vehicle options available.