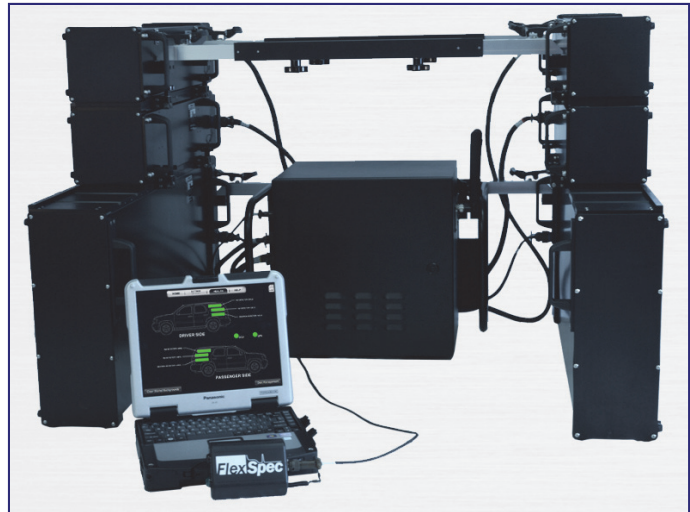


- State-of-the-art mobile radiation detection system provides high-sensitivity gamma and neutron detection, with left vs. right directionality.
- Rugged, slim-lined standalone kit can be easily moved and installed into various vehicles without tools.
- Provides rapid and reliable isotope identification 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.
- Custom mechanical mounts/enclosures are available for deployment for land/maritime/airborne applications.
- Number and configuration of detectors can be customized for a specific application.



Technical Specifications (for standard 4 Gamma, 2 Neutron configuration)

GAMMA SENSORS: Four NaI detectors (two per side). Each detector contains a 2" x 4" x 16" NaI crystal with an energy resolution better than 8% at 662 keV. Size of each detector including enclosure: 6.5" x 7.5" x 26".

NEUTRON SENSORS: Two neutron detector modules (one per side). Each assembly including the enclosure is 6.5" x 17" x 36.5" 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, or other reachback 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.

SIZE: Standard configuration of 1 control box, 4 NaI and 2 neutron detectors: 36.5" (L) x 42" (W) x 30.25" (H)

WEIGHT: 453 lb (complete sensor kit). 52 lb per gamma detector, 95 lb per neutron detector and 55 lbs for control box.

POWER: 10-30 VDC (3.5 Amps steady state @ 12 VDC). Runs off of 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).