Specifications and Thermo Scientific PackEye ordering information

| Specifications | FHT 1377 GN-2 | FHT 1377 G |
|--|---|--|
| Order Number | 4255061 | 4255056 |
| Gamma detector | 770cm3 (9x12 cm) plastic scintillator | |
| Gamma energy range / sensitivity | 20 keV to 3 MeV / $>$ 30 cps / $\mu Rem/h$ [3000 cps / $\mu Sv/h$] at 662 keV | |
| Artifical gamma alarm | Typically better than 20 % of natural background | |
| Neutron detectors | 2 ea. Li-6 doped flat scintillation detectors ea. 22 x 23 x 2.3 cm | |
| Neutron efficiency (Cf-252) | 40 cps per n / s/cm ² | |
| User Interface | LED based indicator unit at the belt. Optional PDA with Thermo PackEye software and GPS function | |
| Signal update | 100 ms | |
| Power supply | Rechargeable NiMH - power pack (7.2 V) | |
| Operation time | approx. 30 h | approx. 60 - 70 h |
| Dimensions | 58cm x 30cm x 18cm (23 x 12 x 7inches) | 58cm x 30cm x 18cm (23 x 12 x 7inches) |
| Weight | approx. 7.5 kg (16.5lbs) | approx. 5 kg (11lbs) |
| Communications | RS232/USB or Optional Bluetooth | |
| Accessory aluminum case | 1 ea. user manual, 1 ea. USB connection cable with driver software, 1 ea. RS 232 serial connection cable, 1 ea. rain cover for backpack, 1 ea. earphone, 2 ea. rechargeable battery packs (one in exchange), 1 ea. charger for 120/240 V AC and 12 V DC, 1 ea. package of black bands to secure the cables and belts of the backpack. | |
| Accessories for immediate indication of artificial gamma alarm (NBR) | Exempt check source Cs-137 3.7 kBq (0.1 µCi), sealed in a 1" resin chip Lutetium Test Adapter 50 g 50 Bq/g, 62 mm dia. disc (aluminum housing) 4254948 | |



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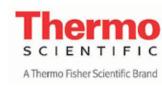
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Thermo Scientific PackEyeRadiation Detection Backpack

- Orphaned material
- Contamination
- Maliciously introduced sources

Quickly locate radiation threats



Thermo Scientific PackEye

Radiation Detection Backpack

The Thermo Scientific™ PackEye™ Radiation Detection Backpack is ideal for field use to quickly locate orphaned sources, radiation contamination and potential malicious intent sources. Our advanced approach delivers high neutron detection sensitivity without the need for He-3.

Simple to use: LED based operations ensure you are proficient in minutes with limited training

Lightweight: models range between 5 and 7.5kg (10 and 16.5lb)

Extended use: 30 hours of operation time

Safe: High neutron detection sensitivity achieved with He-3 free detector technology

Ease of use: Simple green and red notification system

Cost of ownership: Stable product over lifetime with no need

for regular optimization or stabilization

High sensitivity: levels as low as 1uR/h (10 nSv/h) discover heavily shielded sources or dirty bombs

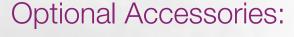
Minimize nuisance alarms: immediate discrimination between natural (NORM, natural background changes) and artificial radiation via Natural Background Rejection algorithm

Stealth mode: Standard earphone mutes audible level indication or alarm

Telemetry: Bluetooth[™] data transfer to optional PDA or add optional radio module for direct reachback via 900Mhz, 2.4GHz or commercial cellular

Product Information:

- Gamma only version available
- 2 flat Li-6 scintillation detectors with proprietary measurement technique, allowing minimal crosstalk while achieving a very low net alarm threshold level
- Highly sensitive NBR plastic scintillation detector with voltage divider and Photomultiplier
- Low power controller (type FHT 681) with attached high capacity battery module and user friendly interface (LED based indicator unit)
- Accessory case with connection cables to PC or notebook, spare battery pack, earphone, set of international power socket plugs for charger, car adapter as alternative power supply for the battery charger and rain cover



- Thermo Scientific[™] RadEye[™] SPRD Spectroscopic Personal Radiation Detector for flexible source location, dose rate survey and nuclide identification in case of alarm
- PDA set for convenient data display including GPS (connected to the PackEye Backpack via Bluetooth)
- Transportation case with outside power socket
- Tripod for transportation case provides temporary, covert, stationary gate monitoring capability at vehicle height



LED based indicator unit



