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Scintrex is a diversified high-technology company engaged in the development and manufacture of geophysical and geochemical exploration instrumentation, medical diagnostic instruments and sensing devices for use in the defence and security fields.

Radiation monitor and automatic alarm system AN/GDQ-3

The Scintrex AN/GDQ-3 system continuously detects and measures the gamma radiation rate from fallout produced by nuclear explosions and automatically initiates alarms based on these measurements. The equipment is installed at fixed or semi-fixed locations and provides in-place radiation monitoring from remote detectors distributed over a large area.

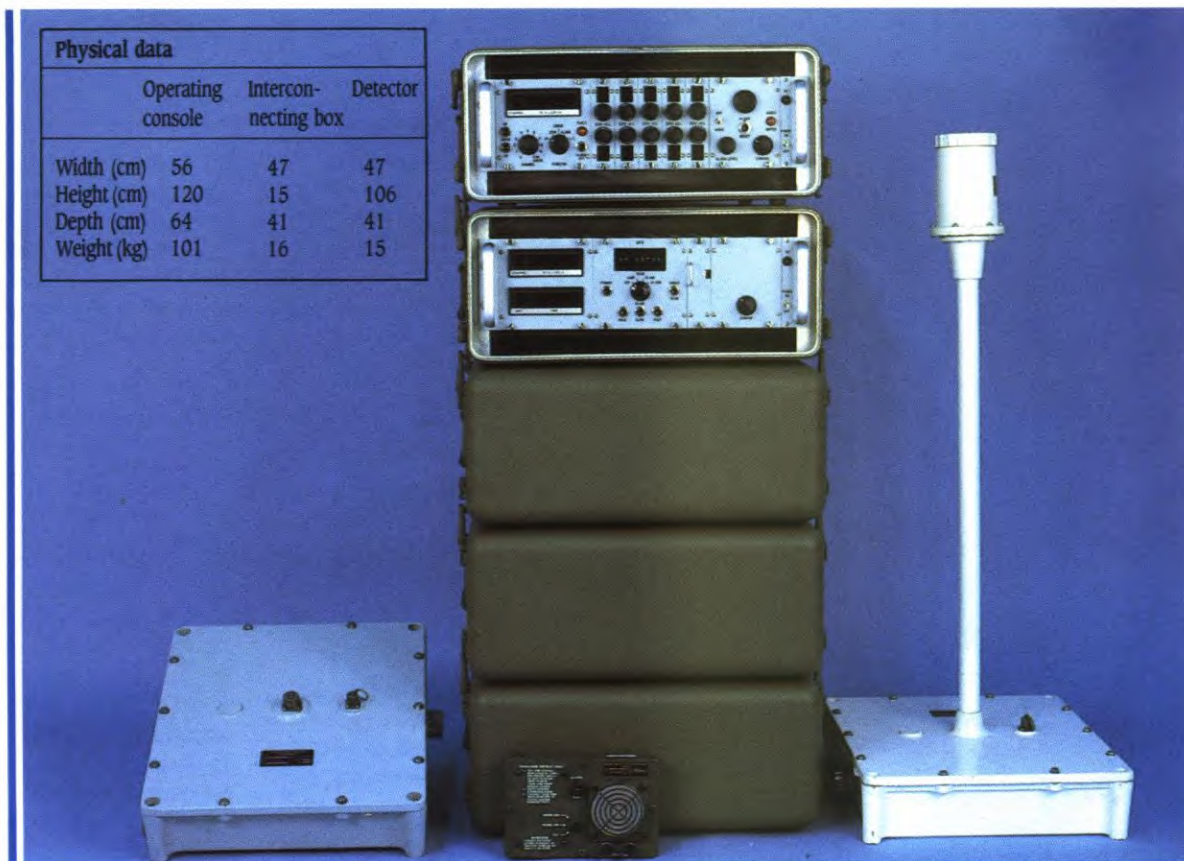
The Scintrex system consists of 10 remote detectors, an interconnecting box and an operating console containing an interface module, a control module and a desk. Auxiliary equipment to be used with the AN/GDQ-3 system (a United States Army configuration) includes a field telephone, an alarm unit and a teletype.

Technical data

The equipment is built in accordance with MIL-R-49358(ER) and is protected against deleterious action caused by vibration, shock, sand

and dust, salt, fog, fungus, nuclear survivability and EMI.

- Power source: 110/220 V AC, 50/60 Hz, 300 W or 24 V DC (battery) 5 A, with automatic switchover to DC power in case of AC power failure when both power sources are available
- Range: 0.1 to 5 000 rad/h with automatic range switching
- Accuracy: $\pm 10\%$ of reading \pm significant digit
- Response time: 10 s to reach 90% of final value
- Alarm level: adjustable from 0 to 99 rad/h
- Teletypewriter output signal: ASCII or Baudot encoded 20 mA current loop or RS-232 standard Xtal-controlled, switch-selectable baud rates
- System area coverage: 31 km² (approximate)
- Cabling length: maximum distance from detector to control group is 3.05 km
- Temperature: sensor -45° to $+52^{\circ}\text{C}$; control group: -18° to $+52^{\circ}\text{C}$
- Storage temperature range: -62° to 71°C
- Humidity: 0 to 94% relative humidity
- Altitude: operational up to 3 048 m above sea level



Physical data			
	Operating console	Interconnecting box	Detector
Width (cm)	56	47	47
Height (cm)	120	15	106
Depth (cm)	64	41	41
Weight (kg)	101	16	15

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