

PREDATOR ISOTOPE IDENTIFINDER

The PREDATOR-Series is an isotope identifier that is easy to use with almost no training. Identifying a radiation source simply requires pressing a single button. This powerful instrument uses a combination of up to four different detectors to identify 107 different radioactive materials including Medical Isotopes, Industrial Isotopes, and Special Nuclear Materials.

In addition to material identification, the PREDATOR is also a very sensitive radiation detector, allowing public safety personnel to sweep large numbers of people, packages, or vehicles to quickly detect gamma contamination or locate loose radiation sources. Once an elevated radiation reading is detected, the PREDATOR can provide a true dose rate reading and then identify the isotope.

The PREDATOR houses a built-in Bluetooth wireless data link that conveniently sends measurement results to a remote PC up to 300 feet away. The PREDATOR is built to withstand rugged use, can be used in all weather conditions, and will endure rigorous decontamination procedures.

All radiation measurements are stored in non-volatile memory so no measurement data will be lost even when there is no power. All the PREDATOR needs to operate are 3 off-the-shelf D-cell batteries. No charger or special power supply is required which means that the PREDATOR is ready when you are.

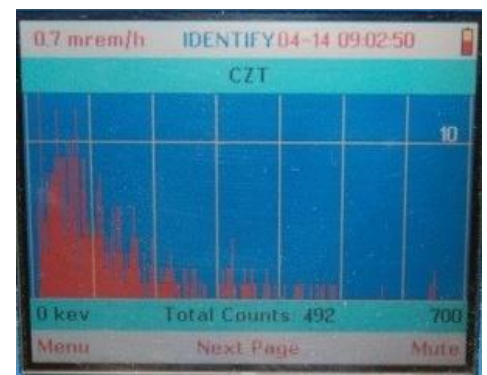
FEATURES:

- ◆ Identifies 91 Isotopes
- ◆ NaI(Tl), GM, CZT Detectors
- ◆ Bluetooth Wireless Link
- ◆ One Button Operation
- ◆ Rugged Weatherproof Construction



MODELS:

- ◆ PREDATOR-G NaI(Tl), GM, 4 CZT Crystals
- ◆ PREDATOR-G+ NaI(Tl), GM, 8 CZT Crystals
- ◆ PREDATOR-GN NaI(Tl), GM, Neutron, 4 CZT Crystals
- ◆ PREDATOR-GN+ NaI(Tl), GM, Neutron, 8 CZT Crystals



PREDATOR SPECIFICATIONS:

DETECTORS STANDARD CONFIG	NaI(TI) CRYSTAL, GM TUBE, 4 – CADMIUM ZINC TELLURIDE CRYSTALS
ISOTOPE ID	91 ISOTOPES - LISTED BELOW
RESPONSE TIME	< 1 SECOND
GM DOSE RANGE	1 µR/hr – 100 mR/hr (0.01 µSv/hr – 1 mSv/hr)
DISPLAY UNITS	R/hr, Sv/hr, CPS (AUTO-RANGING)
ALARMS	AUDIBLE/VISUAL
ALARM TYPES	DOSE RATE, GAMMA DETECTION LEVEL, NEUTRONS
DISPLAY	HIGH RESOLUTION 3.6" LCD
DATA LINK	BLUETOOTH
POWER	THREE (3) D-CELLS
BATTERY LIFE	≈12 HOURS
TEMPERATURE RANGE	(5°F) -15° C TO (130° F) 54°C
HUMIDITY RANGE	5 - 95% NON-CONDENSING
DIMENSIONS	11.2" L x 5.3" W x 7.5" H (28.2 cm x 13.5cm x 19 cm)
WEIGHT	7.5 lbs (3.38 kg) WITH BATTERIES

Isotope Library

Na-22	Sr-89	I-132	Dy-165	Co-60	In111	La-140	Ra-226
K-40	Zr-95	Te-132	Yb-169	Zn-62	I-123	Ce-141	Th-232
Sc-46	Nb-96	Ba-133	Tm-170	Ga-64	I-124	Ce-144	U-233
Ca-47	Tc-96	I-133	Lu-177	Zn-65	Sb-124	Pr-144	U-235
Cr-51	Mo-99	Xe-133	Hf-181	Ga-67	I-125	Sm-145	Np-237
Mn-52	Tc-99m	Cs-134	Ta-182	As-72	Sb-125	Nd-147	U-238
Mn-54	Pd-103	I-134	Re-186	As-74	I-126	Tb-149	Pu-239
Co-55	Ru-103	I-135	Re-188	Se-75	Sb-127	Eu-152	Pu-240
Mn-56	Rh-106	Xe-135	Ir-192	Br-75	Xe-127	Gd-153	Am-241
Co-57	Cd-109	Cs-137	Tl-201	Br-77	I-131	Sm-153	Cf-251
Co-58	Pd-109	Ce-139	Pb-203	Y-88	Xe-131m	Eu-155	Fe-59
Ag-110	Ba-140	Bi-207					