RAD IQ™ WBC

Whole Body Counter

The RAD IQ™ WBC determines whether the subject individual has ingested radioactive material (body burden) after exposure to radioactive materials due, for example, to an event. It is designed to provide high throughput with high performance and to be user friendly, both for the operator and the subjects being examined. Our shadow shielding technology enables compact and open style system design leading children, pregnant women, and large men to be readily and conveniently accommodated.

Its light weight and small footprint of the design also the WBC to be readily installed in small spaces or in a mobile unit. The design features not only make it easy to accommodate people of all shapes and sizes but also to maintain high throughput even in heavy traffic situations.
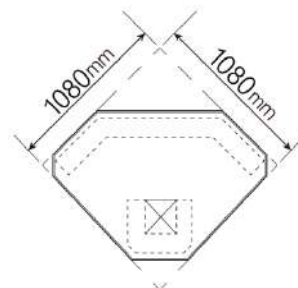
Front / Side view

RAD IQ™ WBC

● Key features

- Excellent performance achieved with two large 3x5x16 inch NaI detectors
- Small footprint and lightweight make it easy installation in mobile applications
- One minute measurement time (typical) for high throughput
- Shock absorber design to protect detectors & electronics in harsh operational conditions
- Auto energy drift stabilization to compensate unstable temperature change
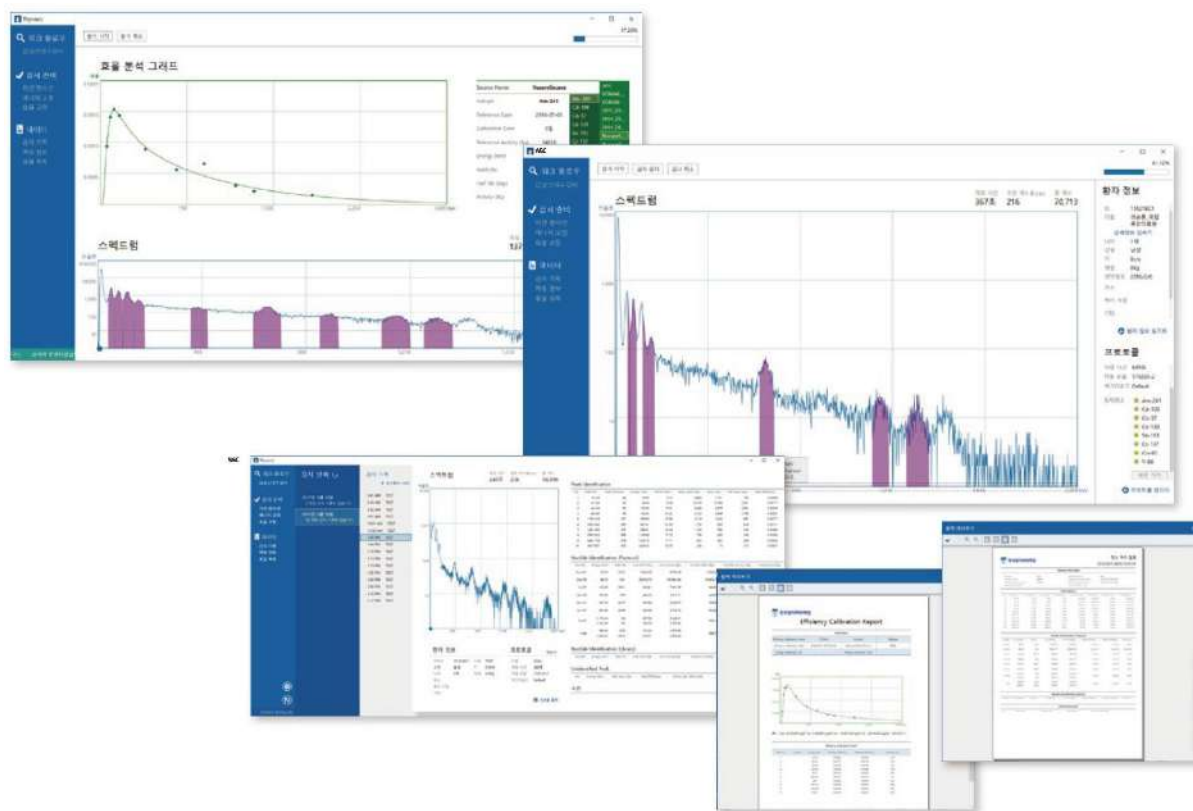
1080mm   1080mm

Detector	NaI(Tl) (3x5x16 inch), 2ea	Operating Temperature	-15°C(5°F)~50°C(122°F)
Foot print	1080(W)×1080(D)×2060(H) mm	Weight	2,850kg(6,283lb)
Typical MDA [1]	^{60}Co149 Bq (4.0 nCi), ^{137}Cs: 224 Bq (6.1 nCi), ^{134}Cs: 114 Bq (3.1 nCi)	Power	110 - 220 V AC (50 or 60 Hz)
Energy range	200 - 2,000 keV	Resolution	7% ± 1% @ 662keV(Cs-137)
Transfer Phantom Dimension	360(W) X 225(D) X 600(H) (mm)	Phantom tabel Dimension	600(W) X 300(D) X 900(H) (mm) (height adjustable)

Application softwares

The RAD IQTM WBC application SW provides user friendly configuration/calibration procedure and DB (database) management solutions. Precise and accurate quantitation is possible by Nucare's statistics-based signal processing algorithms.

RAD IQTM WBC Application SW