

kromek[®]
detect image identify



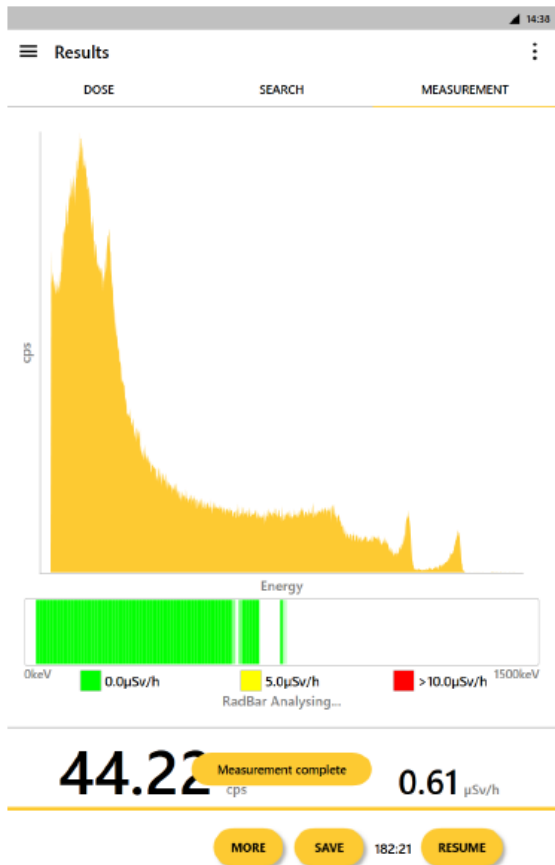
KromeK 社 CZT 半導体スペクトラムサーベイメータ Raymon10 が大画面と Windows10 ベースのシステムとしてリニューアルされました。

7inch 大画面と 3.4kg の軽量ボディ更にカメラ (Front2MP,Rear8MP) を標準装置。



仁木工芸株式会社

niki_sales@nikiglass.com



New Raymon10 は 1280x800(WXGA)バックライト付きの明るい大画面。屋外でもスペクトルの観測が用意になります。

表示はスペクトル、空間線量率 ($\mu\text{Sv/hr}$)、計数率 (cps) を同時に一画面で表示。

もちろん Raymon10、RadAngel で好評の RadBar も標準装備しています。

MCA は 4kch、30keV \sim 3MeV の広帯域を測定します。

線量率は 1mSv/hr まで対応。

Name	Energy	Intensity	Gross	Net	Lower	Upper
AM-241	59.5409	47.15%	45434	2021.4	1266	2776.8
BA-133	356.0129	22.91%	11595			
CO-57	122.06065	52.07%	22848			
CO-60	1173.228	49.96%	0			
CO-60	1332.492	50.03%	0			
CS-134	604.69	43.61%	1329			
CS-134	795.84	38.2%	0			
CS-134M	30.6254	14.6%	23688			
CS-134M	30.9731	27.07%	22029			
CS-134M	127.42	20.67%	19158			
CS-137	661.657	91.63%	4299	3304.5	3120.9	3488.1
EU-152	40.1186	15.29%	31541			
EU-152	121.7817	11.52%	21736			
EU-152	344.2785	10.79%	11642			
IR-192	295.9565	12.19%	11492			
IR-192	308.45507	12.59%	11205			
IR-192	316.50618	35.11%	11049			
IR-192	468.0688	20.28%	12417	1378	878.87	1877.1
K-40	1460.822	91.42%	0			
NA-22	1274.537	99.86%	0			
TL-204	68.895	19.42%	46098	1340.5	561.45	2119.5
TL-204	70.82	33.27%	45122			
TL-204	80.2797	11.18%	41901			

Isotopes over the critical limit: 4 of 23

0.61 $\mu\text{Sv/h}$

核ライブラリには 94 核種を登録。

ANSI N42.48(2008)Section6.10 で求められるホームランドセキュリティのための個人用スペクトロメータ (SPRDs) のために自動 ID を開発しました。

Quant-Option と一緒に使えば、現場での簡易分析まで可能です。

Raymon10 に搭載された GR1 検出器はあなたに素晴らしいエネルギー分解能を提供します。



Raymon10 の環境性能が更にパワーアップしました。

使用動作温度 -20°Cから+50°C

保管時 -30°Cから+70°C

Raymon10 は厳しい MIL 規格の落下試験、振動試験、防塵・防水試験、温度ショック等をパスしています。

TECHNICAL DATA

DETECTOR PROBE

Detector: CZT detector 10 x 10 x 10 mm³
High energy resolution: 2.0-2.5% FWHM @ 662 keV
Display: 1280 x 800 pixel (WXGA) high-visibility backlit LCD for best-in-class sunlight view-ability
Camera: Front 2MP and rear 8MP with LED illuminations
Indicator: On screen display confirming detector connected.
Dose rate display: µSv / hr
Connection: USB

Detector Testing: Tested by National Physical Laboratory in accordance with the conditions in

ANSI N42.31 (2003) "Measurement procedures for resolution and efficiency of wide-bandgap semiconductor detectors of ionizing radiation"

NPL Good Practice Guide No. 14 "The examination, testing and calibration of portable radiation protection instruments"

Automated Radionuclide ID developed for:

ANSI N42.48 (2008) Section 6.10 "Requirements for Spectroscopic Personal Radiation Detectors (SPRDs) for Homeland Security"

PERFORMANCE

Energy range (Gamma): 30 keV to 3.0 MeV
Maximum throughput: 30,000 cps High level indicator warning on screen
Number of channels: 4096
Battery: 43.2Whr Li-ion rechargeable battery operating for 8-10 hours on one charge
Library: 94 radionuclides
Dose rate: Demonstrated up to 1mSv/h@ 662 keV
Dose accuracy: Better than +/- 20%
Stability: Peak drift +/- 1 channel (4096) over 8 hours continuous measurement
Analysis Software: RayMon10™ Analysis software
Tablet platform: Windows 10

PHYSICAL

Max. Dimensions: 21.6 x 20.5 x 4.5 cm
Weight: 1.08 kg

POWER ADAPTOR

Input: AC100-240V 50-60Hz 0.5A, 32-46VA
Output: DC12V 1.67A (Centre Positive)
International mains socket adaptors included as standard.

ENVIRONMENTAL

Tablet Unit

Performance is specified at an ambient temperature of 25°C. Operation at extreme temperatures (above 40°C or below 0°C) is not recommended.

Water:

Immersed in 1.4m of water for 2hrs, IP68
Designed for MIL-STD-810G, Method 512.5

Sand & dust: Totally protected against sand and dust, IP68. Designed for MIL-STD-810G, Method 510.5

Drop:

Shockproof: multiple drops from 4' (1.2 –1.5 m) onto concrete
Ship box drop tests
Designed for MIL-STD-810G, Method 516.6

Vibration:

Helicopter and general x, y and z axis vibration tests
Designed for MIL-STD-810G, Method 514.6

Operating Temperature:

-4°F to 122°F (-20°C to 50°C)
Designed for MIL-STD-810G, Method 501.5 and Method 502.5

Storage Temperature:

-22°F to 158°F (-30°C to 70°C)
Designed for MIL-STD-810G, Method 501.5 and Method 502.5

Temperature shock:

-4°F/140°F (-30°C/+60°C)
Designed for MIL-STD-810G, Method 503.5

Humidity:

95%RH temp cycle 86°F/140°F (30°C/60°C)
Designed for MIL-STD-810G, Method 507.5

Altitude:

Rapid decompression, 40,000 ft (12,192 m) to sea level in <15secs
Designed for MIL-STD-810G, Method 500.5

Detector Probe

IP65
EMC tested

Recommended service interval: Annual

Applications include:

- Health physics ■ Nuclear installation monitoring ■ Nuclear accident response
- Security screening undertaken by customs, police, fire and rescue services
- Military ■ Site surveys ■ Civil defense ■ First responders