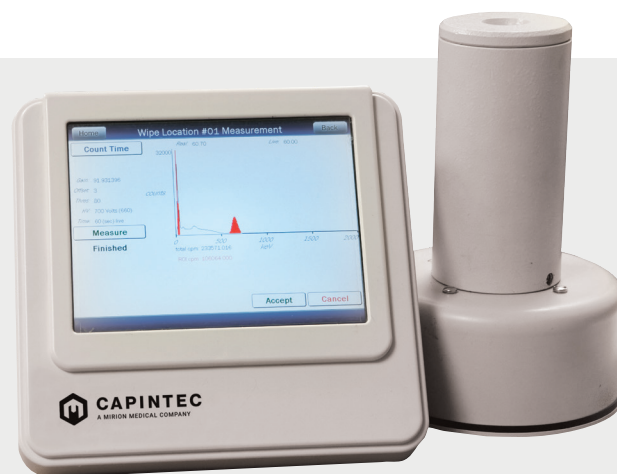


# CAPRAC-t Wipe Test/Well Counter Well Counters



## Features

- 8 in SVGA touch screen color display
- 256 channel MCA with detailed spectrum for identification analysis
- NaI drilled-well crystal detector
- Automatic energy calibration, constancy check, and background subtraction
- Automated well QC including chi-square and MDA
- Manual and Automatic ROI
- Sets user-definable protocols for wipes
- Printouts of all data for permanent records with the optional printer
- Direct readouts with spectrum display are in cpm, dpm, curies and becquerels
- Meets all state and NRC wipe test requirements
- USB and RS-232 communication ports for PC and printer
- Compatible with nuclear medicine information management systems via USB
- Lab tests include Schilling, plasma and red blood cell (RBC) volume
- Built-in database for test and wipe results as well as QC

## Description

Measure for measure, no other well counter offers the speed, accuracy and complete range of built-in features provided by the compact CAPRAC-t counter. It performs a wipe test in just six seconds (for 1 nCi) and detects extremely low levels of activity with the accuracy only a NaI drilled-well detector can provide.

The CAPRAC-t system can also serve as a single-well gamma counter in departments that do not need multi-sample changers. User-defined protocols, trigger levels, and counting times are a "snap". A 256-channel pulse-height analyzer permits built-in gamma spectroscopy. Definable conversion factors for specific radionuclides allow the CAPRAC-t counter to calculate results in cpm, dpm, nCi, cps, dps, or kBq. The CAPRAC-t unit also displays photon-energy histograms.

The CAPRAC-t counter is engineered and built for years of consistent, reliable performance and is curie or becquerel selectable. The unit has automatic background subtraction and self-diagnosis programs for systems testing with optimized signal-to-noise ratio. It includes a lead outer shield (1.3 cm thick) with optional auxiliary shield available.

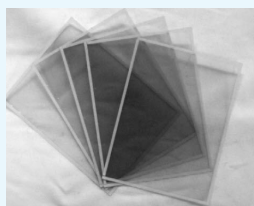
## Accessories



Cs-137 Rod Source  
Eu-152 Rod Source



Well Auxiliary Shield



Protective Screen Covers



Auxiliary Shield



Epson Roll Printer



Test Tubes

## Specifications

### Physical:

- **Console Dimensions:**  
**Height:** 42 cm (9.5 in.)  
**Width:** 23 cm (9.0 in.)  
**Depth:** 27 cm (10.5 in.)  
**Weight:** 3.4 kg (7.5 lb)
- **Chamber Dimensions:**  
**Height:** 23.8 cm (9.38 in.)  
**Diameter:** 15.2 cm (6 in.)  
**Weight:** 6.9 kg (15.2 lb)  
**Well Diameter:** 1.7 cm (.67 in.)  
**Well Depth:** 3.8 cm (1.5 in.)  
**Cable Length:** 2.7 m (9 ft)
- **Cables:**  
**Power:** 1.8 m (6 ft)  
**Printer<sup>1</sup>:** 1.8 m (6 ft)
- **Performance:**  
**Type:** Drilled-well crystal, NaI(Tl) scintillator  
**Crystal Dimensions:** 3.8 x 4.4 cm (1.5 x 1.75 in.)  
**Shielding:** 1.3 cm (0.5 in.) lead  
**Shielding:** 2.75 m (9 ft) interconnecting cable  
**Channels:** 256  
**Counting Rate:** 100,000 cps, max
- **Well Detector:**  
**Type:** 1 1/2 in Sodium Iodide (NaI) drilled-well crystal detector  
**256 Channel MCA,** manual and automatic ROI  
**Trigger Levels:** User-definable  
**Automated Calibration and Background Subtract**  
**QC Tests:** Reproducibility, Chi-square, MDA

### Display Screen:

**Type:** 8 in. VGA LCD color touch screen display

**Bq/Ci Reading:** User selectable or fixed

**Activity Display:** Selected radionuclide, efficiency, measured activity and display units (Bq/Ci)

**Count Rate Values:** Wipe and lab test results

### Standard Source Data:

**System Memory:** Cs-137, Eu-152 standard sources  
 Efficiency for commonly used isotopes

### PC Port:

**Interface:** RS-232 and USB

**Compatibility:** Standard Nuclear Medicine Management Systems

### Printer:

**Interface:** RS-232 and USB

### Power Requirements:

100-240 V ac (50/60 Hz) 90 MA

### Tests:

**Diagnostics:** Full test of program, system memories

### Cable:

**Printer (Optional):** 1.8 m (6 ft)

**Power:** 1.8 m (6 ft)

## Ordering Information

5430-3136	CAPRAC-t Wipe Test/Well Counter
0975-137R	Cs-137 Rod Source
0975-152R	Eu-152 Rod Source
7900-0352	Protective Screen Covers
5430-0058	Epson Roll Printer
5420-2141	Well Auxiliary Shield
5420-2072	Auxiliary Shield
0670-0016	Test Tubes
9282-0009	Roll Paper
5420-0121	Well Liners

1: Longer cables are available. Consult factory.



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