

CRC®-55tW Dose Calibrator/Well Counter

Introducing the new standard in providing dose calibration, wipe tests and lab tests all in one unit!

As a combination of the new CRC®-55tR Dose Calibrator and Well Counter, the CRC®-55tW's dose calibrator provides advanced features with the speed and accuracy you need to measure activity and prepare doses. Its ion chamber is one of Capintec's time-tested, high pressure well designs capable of measuring a dose as high as 6 Ci (250 GBq) with high accuracy. The CRC®-55tW features a new helpful chamber plug-and-play capability.

For wipe testing, the CRC®-55tW allows the user to define specific counting procedures (protocols) with trigger levels for work, patient, unrestricted areas and sealed source leak tests. The CRC®-55tW also performs counting functions for wipe tests in as little as 6 seconds at activities as low as 1 nCi. Low activities are measured with a drilled well high sensitivity Sodium Iodide (NaI) detector.

The well counter includes a 256 channel MCA which provides detailed spectrum for identification and analysis. Manual and automatic ROI selection available.

The chamber and counter of the CRC®-55tW are combined in a menu driven, touch screen interface that is easy to learn and use.

Count on Capintec not only for excellence in energy measurement, but for our unsurpassed customer service and training and support!



55tW Features

- 8" VGA touch screen color display
- USB/PC Communications
- Software upgrade via Ethernet interface
- USB printer capability
- Chamber plug-and-play capability
- Optional intelligent remote displays nuclide, activity, and performs daily tests
- 28 programmable nuclide keys
- Built-in dose calibration, quality control and self diagnostics
- Over 80 nuclides in memory
- Automatic chamber QC including linearity
- Hard copy records of data available from optional printer
- Compatible with nuclear medicine information management systems via network interface
- 256 channel MCA with detailed spectrum for identification analysis
- Well counter for wipe tests and laboratory tests
- Lab tests include Shillings, Plasma and RBC volume
- User-definable protocols for wipe testing
- Automated well QC including χ^2 and MDA
- Manual and Automatic ROI



(201) 825-9500 / (800) 631-3826

55tW Specifications

- Well Detector
 - Type: Sodium Iodide (NaI) drilled-well crystal detector
 - 256 Channel MCA, manual and automatic ROI
 - Warning Trigger Levels: User-definable
 - Tests: Daily test, energy calibration, and reproducibility
 - Enhanced QC includes χ^2 and MDA

- Ionization Chamber
 - Fill Gas: 12 atm Ultra Pure Argon
 - Measurement: Auto ranging
 - Activity Range: Up to 6 Ci (250 GBq)
 - Resolution: .001 MBq (.01 μ Ci)
 - Response Time: Within 2 sec., for low activity sample, 4 to 16 sec. (user selectable)
 - Tests: Daily tests include Auto Zero, Background Adjustment, Voltage Test, Data Check, Accuracy and Constancy
 - Enhanced QC includes linearity, geometry, strip QC

- Display Screen
 - Type: 8" VGA LCD color touch screen display
 - Bq/Ci Reading: User selectable or fixed
 - Activity Display: Selected radionuclide, calibration number, measured activity and display units (Bq/Ci)
 - Count Rate Values: Wipe and lab test results

- Electrometer
 - Accuracy: Better than $\pm 2\%$
 - Linearity: Within $\pm 2\%$

- Repeatability of Measurement
 - Within $\pm 1\%$ within 24 hours, during which time calibration is powered at all times

- Nuclide Data
 - Nuclide Setting Keys: 28 programmable keys
 - System Memory: Over 80 nuclides (cal number and half-life)

- Standard Source Data
 - System Memory: Co-57, Co-60, Ba-133, Cs-137

- Molybdenum-99 Assay
 - Methods: CAPMAC® & canisters
 - Measured Values: Mo-99 elution, Tc-99m, Tc-99m/Mo-99 ratio

- PC Port
 - Interface: RS-232 and USB
 - Compatibility: Standard nuclear medicine management systems
 - Ethernet interface

- Printer
 - RS-232 & USB Ports
 - Epson Roll, Epson Slip or Okidata dot matrix

- Power Requirements
 - 100-240 VAC (50/60 Hz) 100 MA

- Tests
 - Diagnostics: Full test of program, system memories

- Cable
 - Printer (Optional): 1.8m (6ft)
 - Power: 1.8m (6 ft)

- Console Dimensions
 - Height: 42cm (9.5in)
 - Width: 23cm (9.0in)
 - Length: 27cm (10.5in)
 - Weight: 3.4kg (7.5lb)

- Chamber Dimensions
 - Height: 43.8cm (17.25in)
 - Diameter: 17.2cm (6.76in)
 - Weight: 13.6kg (30lb)
 - Well Diameter: 6.1cm (2.4in)
 - Well Depth: 25.4cm (10.0in)
 - Cable Length1: 3.7m (12ft)

- Well Counter Dimensions
 - Height: 23.8cm (9.38in.)
 - Diameter: 15.2cm (6in.)
 - Weight: 6.9kg (15.2lb.)
 - Well Diameter: 1.7cm (.67in.)
 - Well Depth: 3.8cm (1.5in.)
 - Cable Length: 2.7m (9ft.)

1: Longer cables are available. Consult factory.

CRC®-55tW Calibrator	5130-2216
Additional R Chamber	5530-2237

Optional Accessories

CRC® Interactive Remote Display	5130-2224
Epson Roll Printer	5430-0058
Epson Ticket Printer	5430-0100
CRP-200 Dose Tickets & Labels	7120-1199
Environmental Shield	7300-2450
Well Detector Auxiliary Shield	5420-2072
Moly Assay Liner	7300-2004
Moly Assay Dipper	7300-2005