CAPINTEC
A MIRION MEDICAL COMPANY

CRC®-55tR

Dose Calibrator

For Speed and Accuracy in Measuring Doses



Features

- 8 in. color VGA touch screen display
- Single or optional second plug-and-play chamber capability
- Chamber can be placed 100 feet from the readout unit
- Bilingual (English/Spanish) software
- On-screen display of Nuclide Name, Number, Activity, Unit of Measure and Calibration Number
- Large character, high visibility display
- Over 80 nuclides with half-lives in memory
- Full alphanumeric touchpad
- Built-in dose calibration, quality control and self diagnostics
- Automated QC including constancy and linearity programs
- Compatible with Nuclear Medicine Management Systems via USB
- Optional printer for full size NRC records and patient labels for syringes and vials
- USB/PC communications
- Software upgrade via USB or flash drive
- USB printer capability
- Automated geometry and linerity testing
- Capable of dual chambers
- Supports exchange of chambers with the CRC®-55tPET Dose Calibrator
- Chamber energy range: 15 keV to 3 MeV

Description

The Capintec™ CRC-55tR Dose Calibrator provides the speed and accuracy you need to measure and prepare doses with the reliability and performance you expect. The CRC-55tR calibrator's design includes a menu-driven, color touch screen interface that is easy to learn and use.

The ion chamber is a proven time-tested, high pressure chamber Capintec design capable of measuring a dose as high as 6 Ci Tc99m (250 GBq) with high accuracy.

Additional features such as USB/PC communications, printer capabilities, USB flash drive software upgrades and plug-and-play chamber make the CRC-55tR calibrator integral in improving your department's efficiency.

The innovative functional design of the CRC-55tR unit allows for a large, easy-to-read display that indicates Nuclide Name, Number, Activity, Unit of Measure and Calibration Number.

Entering data through the custom touch screen interface is fast and includes 28 programmable keys. The user can choose from 80 nuclides by simply selecting the nuclide symbol on the touch screen interface.

Other capabilities include storage of reference sources in memory that automatically decay correct for today's time and date. Automated quality control tests and self-diagnostics are built-in with automatic zero and background subtraction making the CRC-55tR calibrator exceptionally easy to use. An optional printer enables the CRC-55tR unit to print full size records and patient tickets with peel off labels for vial and syringe identification.

Count on us for excellence in energy measurement, and for our unsurpassed customer service, training and support!

Optional Componets



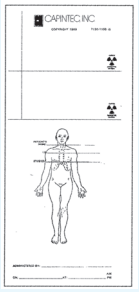
Environmental Shield



Epson Roll Printer



Epson Ticket Printer



CRP-200 Dose Tickets & Labels

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: 43.8 cm (17.25 in.)
  Diameter: 17.2 cm (6.76 in.)
  Weight: 13.6 kg (30 lb)
  Well Diameter: 6.1 cm (2.4 in.)
  Well Depth: 25.3 cm (10.0 in.)
  Cable Length[1]: 3.7 m (12 ft)
- **Cables:**
  Power[1]: 1.8 m (6 ft)
  Printer: 1.8 m (6 ft)
- **Ionization Chamber:**
  Type: Thin wall, deep well, high pressure
  Fill Gas: 12 atm Ultra-Pure Argon
- **Measurement Range:**
  Type: Auto Ranging
  Activity:
  6 Ci (222 GBq) Tc99m max
  2 Ci (74 GBq) F18 max
  Resolution: .01 µCi (.001 MBq), max.

1: Longer cables are available. Consult factory.

- **Display Screen:**
  Type: 8 in. VGA LCD color touch screen display
  Format: Direct reading in Bq or Ci
  Bq/Ci Reading: User selectable or fixed
  Values Displayed: Nuclide name (atomic symbol, mass number), calibration number
- **Electrometer:**
  Accuracy: Better than ± 2%
  Linearity: Within ± 2%
  Response Time: Within 2 seconds, 4 to 16 seconds for very low activity samples
- **Repeatability of Measurement:**
  Within ± 1% within 24 hours during which time the calibrator is continuously in operation
- **Tests:**
  Diagnostics: Full test of program, system memories
  Daily: Auto Zero, Auto Background Adjust, Data Check, Accuracy and Constancy, Voltage Test
  Enhanced: Linearity, Geometry, Strip QC
- **Nuclear Data:**
  Nuclide 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 standard sources
- **Molybdenum-99 Assay:**
  Methods: CapMac and canisters
  Measured Values: Mo-99 elution, Tc-99m, Tc-99m/Mo-99 Ratio

Optional Componets



CAP-MAC-S Molly Assay Canister for Syringes



Molly Assay Canister



Dipper



Chamber Well Insert

- **PC Port:**
  Interface: RS-232 and USB
  Compatibility: Standard Nuclear Medicine Management Systems
- **Printer (Optional):**
  Interface: RS-232 and USB
  Type: Epson Roll, Epson Slip or Okidata full size dot matrix
  Printing Options: Full size test reports. Measured results on tickets
- **Power Requirements:**
  100-240 V ac (50/60 Hz) 90 MA

Ordering Information

5130-3234	CRC-55tR Dose Calibrator
7300-2450	Environmental Shield
5430-0058	Epson Roll Printer
5430-0100	Epson Ticket Printer
7120-1199	CRP-200 Dose Tickets & Labels
5130-2046	CAP-MAC-S® Molly Assay Canister for Syringes
5130-0006	Molly Assay Canister
7300-2005	Dipper
7300-2004	Chamber Well Insert

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