

# CRC®-55tPET Dose Calibrator

The new Capintec CRC®-55tPET Dose Calibrator gives you the ultimate features in the industry's finest package. The CRC®-55tPET Dose Calibrator is designed to meet the demands of your department with accuracy and ease of operation. Reduced chamber pressure and increased bias voltage increases the maximum activity range for high energy PET isotopes.

The CRC®-55tPET provides a menu driven, touch screen interface that is easy to learn and use. The improved user interface contains an improved graphic color display, making operation and usage easier than ever. The unit provides 28 programmable keys. The user can select from over 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®-55tPET exceptionally easy to use.

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



**CRC®-55tPET Dose Calibrator:** Item #5130-3235  
**CRC®-55tPET: Multiple Chamber Option:** Item #5130-2238

- 8" color VGA touch screen display
- USB/PC Communications
- Software upgrade via Ethernet interface
- Optional second chamber
- USB printer capability
- Chamber plug-and-play capability
- Optional intelligent programmable remote displays nuclide, activities and unit of measure and performs daily test
- Chamber and remote can be placed 100 feet from the readout unit
- On-screen display of Nuclide, Activity, Unit of Measure and Calibration Number
- Large character, high visibility display
- Full alpha numeric touchpad
- Built-in dose calibration, quality control and self diagnostics
- Has a maximum activity up to 20 Ci of F-18
- Compatible with Nuclear Medicine Management Systems
- Optional printer for regulatory records and patient labels for syringes and vials
- Over 80 nuclide symbols and half-lives in memory

#### Console Dimensions

- Height: 42cm (9.5in)
- Width: 23cm (9.0in)
- Depth: 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 Length<sup>1</sup>: 3.7m (12ft)

#### Cables

- Power<sup>1</sup>: 1.8m (6ft)
- Printer: 1.8m (6ft)

<sup>1</sup>: Longer cables are available. Consult factory.



# CRC<sup>®</sup>-55tPET Dose Calibrator

## **Ionization Chamber**

- Type: Thin wall, deep well
- Fill Gas: 5 atm Ultra Pure Argon

## **Measurement Range**

- Type: Auto Ranging
- Activity: 20 Curies of F-18
- Resolution: 0.1  $\mu$ Ci (0.01 MBq), max.

## **Display Screen**

- Type: 8" VGA LCD Color Touch Screen Display
- Format: Direct reading in Ci or Bq
- Bq/Ci Reading: User selectable or fixed
- Values Displayed: Nuclide name (Atomic symbol, Mass number), calibration number

## **Electrometer**

- Accuracy: Better than  $\pm 2\%$
- Linearity: Within  $\pm 2\%$
- Response Time: Within 2 sec., 4 to 16 sec. for very low activity samples (user selectable average period)
- Bias Voltage: +500V

## **Repeatability of Measurement**

- Repeatability: Within  $\pm 1\%$  within 24 hours during which time the calibrator is continuously on all the time

## **Overall Accuracy**

- Accuracy Determined By:
  - 1) Calibration for the specific nuclide and the sample configuration,
  - 2) Accuracies of standard sources used for calibration of electrometer

## **Tests**

- Diagnostics: Full test of program, system memories
- Daily: Auto Zero, Auto Background, Voltage Test, Data Check, Accuracy and Constancy
- Enhanced: Linearity, Geometry

## **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, Na-22 Standard Sources

## **PC Port**

- Interface: RS-232 & USB
- Compatibility: Standard Nuclear Medicine Management Systems
- Ethernet interface

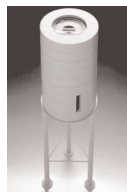
## **Printer (Optional)**

- 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 VAC (50/60 Hz) 100mA

## **Optional Components**



**CRC-PS Positron Shield:**  
Item #7300-2903



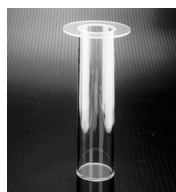
**CRC Auxiliary Display:**  
Item #5130-2224



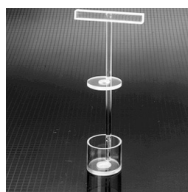
**Epson Roll Printer:**  
Item #5430-0058



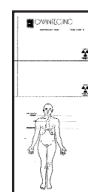
**Epson Ticket Printer:**  
Item #5430-0100



**Liner:**  
Item #7300-2004



**Dipper:**  
Item #7300-2005



**CRP-200 Dose Tickets & Labels:**  
Item #7120-1199



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