

In step with Capintec

The Newsletter of Capintec, Inc.

ASTRO Edition

Stop By & Visit Us:
Booth # 2022 at the ASTRO
45th Annual Meeting in
Salt Lake City

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Capintec.com “Enhanced”

Click on www.capintec.com and visit our ENHANCED website and view our full line of quality Nuclear Medicine, PET/511, Radiation Therapy & Diagnostic Radiology products. If you're looking for more information or need a quote, try our convenient shopping “basket” feature. Also, find our meeting schedules, special offers & featured products, all with the click of your mouse.

Capintec to Celebrate

ASTRO's 45th Annual Meeting

The 45th American Society for Therapeutic Radiology & Oncology (ASTRO) will be in Salt Lake City this year (October 19-23, 2003) and so will Capintec, the name associated throughout the world for quality and reliable Radiation Therapy products.

Capintec will be introducing our newest addition to our family of products, the *2 Basic*. A dual diode external beam dose measurement device that is controlled from a PC. The *2 Basic* provides exact and reliable relative dose measurements of high-energy photon and electron radiation during the treatment of patients.

Look for us at **BOOTH # 2022** to receive a demonstration and more information on this exciting new quality control device and our other line of Radiology and Diagnostic products.

The screenshot shows the Capintec, Inc. website interface. On the left is a vertical navigation menu with buttons for Home, About Us, Capintec News, Products, Request Info, Support, and Contacts. To the right of the menu are two product images. The first image shows a medical device with the text 'Capintec' and 'Facilitate in energy measurement'. The second image shows a circular graphic with the text 'capintec' and 'radiology ready'.

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Roger Szafranski Joins the Capintec Team

Capintec is pleased to announce that Roger Szafranski has recently been appointed to Senior Product Manager in charge of the development of new products to be added to the Capintec product line.

Roger comes to Capintec with a wealth of knowledge and experience in consumer and medical marketing/sales. While working for a multi-national consumer products manufacturer, Roger has developed several new products with various international companies and routinely ran dosimetry plans in the OR for prostate seed implants.

Roger's responsibilities will be to work within the radiology/radiation therapy medical community to develop new product ideas, develop marketing plans and distribution channels for Capintec's dosimetry and radiation measuring devices as well as new product entries.

Our Staff

Chief Editor Thomas Guenther

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Capintec.... Introduces the 2 Basic

Features

- . PC controlled software with unlimited data storage & archives
- . Excellent linearity & uniform output
- . One set of diodes covers entire range of photon & electron energies
- . Compact, easy to use, < 1 lb.
- . **Reimbursable, CPT code 77331**





Capintec, the name associated throughout the world for quality and reliable electrometers, is introducing the 2 BASIC, a dual diode external beam dose measurement device. **Controlled from a PC, it provides exact and reliable relative dose measurements of high-energy photon and electron radiation during the treatment of patients.**

During treatments the dose from each diode is simultaneously displayed in a high visibility format. The software provides unlimited data storage of integrated dose; easy data and patient note input; archive retrieval and report printing capabilities for reimbursement and insurance purposes.

The 2 BASIC diode detectors are hemispherical shaped for easy patient skin placement; provide high sensitivity; exact linearity and uniform output vs. gantry angle. One set of diodes covers the entire photon and electron energy range using software compensation to correct for energy dependence. The PC controlled software automatically corrects for zero offset and compensates for diode aging from radiation and signals you when it's time to replace the diodes. The diodes are completely water resistant and engineered for superior drift control.

CRC[®]-15BT Dose Calibrator

Perfect for HDR or LDR Brachytherapy Source Calibration...

Accurate, high activity brachytherapy measurements present new challenges in Radiation Therapy, the CRC[®]-15BT easily overcomes these challenges. Both HDR and LDR brachytherapy sources are quickly and precisely measured by the CRC[®]-15BT.

The console of the CRC[®]-15BT is designed for ease and efficiency. There are 14 nuclide keys that can be programmed to meet the users needs. The unit has a large LCD display that will show the isotope name, activity (in Ci or U) and calibration number. A custom alphanumeric keyboard drives all of the menus and functions.

The chamber is a sealed thin wall, deep well design with low pressure Argon gas and a 500V bias in order to achieve optimal response time (within 2 seconds) without temperature or pressure corrections.

Optional ADCL Calibration is available with the CRC[®]-15BT to ensure maximum accuracy. Calibrated with the specific brachytherapy source(s) utilized in your department, activity can be measured precisely in either Curies (Ci) or Air Kerma strength (U).

The CRC[®]-15BT software is a menu driven design that will allow the user to move rapidly through all of the system functions. The Daily QC protocol will perform zero adjust, background subtraction, system test, accuracy (with a deviation percentage) and constancy. The system memory will also



support up to 20 brachytherapy sources with isotope name, calibration number, Air Kerma strength and ADCL calibration factor.

- ❑ Accurately and rapidly reads both HDR, LDR and IVBT sources
- ❑ Readout in Ci or Air Kerma strength
- ❑ Sealed, low pressure gas filled chamber (no temperature or pressure corrections necessary)
- ❑ Built-in auto-calibration, QC programs, background subtraction and system test
- ❑ Multiple seed/seed train measurement capability
- ❑ Specialized holders for seed trains and other source geometries
- ❑ Very simple and easy to use, offering a wide variety of features
- ❑ Optional ADCL calibration available

IMRT Point Dose QA Phantom

The Capintec IMRT Point Dose QA Phantom has been designed for both IMRT commissioning and routine patient QA. Use of the IMRT QA Phantom with an IMRT Phantom Calibration Procedure (as described in the documentation supplied with the Phantom) will enable you to compare calculated dose and measured dose in Phantom. The calibration procedure will establish a link between the dose calculated by a treatment planning system and the dose delivered by the linear accelerator under ideal calibration conditions.

Single point dose verification is directly linked to patient care. Therefore, the Capintec IMRT Point Dose QA Phantom will play an important role in IMRT QA. Existing IMRT billing codes such as ACR/ASTRO, Joint Economics Committee (JEC), recommend "dosimetry should be verified utilizing an ionization chamber". The Capintec IMRT QA Phantom will enable you to quickly and easily meet this recommendation.

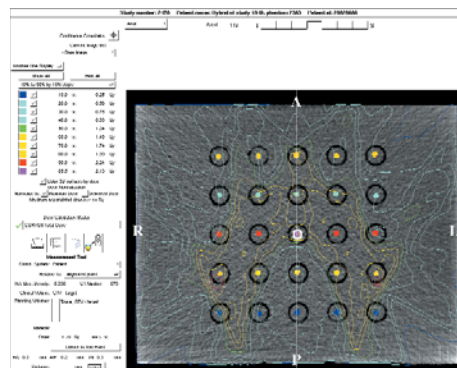
Alternatively, you can have the best of both worlds. The Capintec Integrated IMRT Point Dose/Film QA Phantom provides you with the point dose phantom plus an integrated film phantom. All in one easy to use single phantom configuration. IMRT QA is truly easier than you ever dreamed possible.

The Capintec Integrated IMRT Point Dose/Film QA Phantom is the practical approach to performing IMRT QA. Its single piece construction design allows easy set-up for in room measurement and eliminates the need for multiple measurements or the use of multiple phantoms. It's the one phantom that does it all.

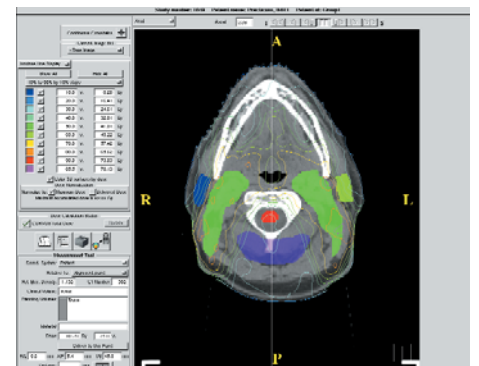
Capintec's IMRT Point Dose QA Phantom and IMRT Film Phantom were designed with you in mind. The phantoms are practical, easy to use and very cost effective. The IMRT Point Dose QA Phantom and IMRT Film Phantom may be purchased separately or as a set with and without the Capintec PR-O5P Mini Chamber.



- ❑ 25 Ion Chamber positions (3cm spacing between chamber positions) for flexibility
- ❑ Ideal for head, neck and pelvic areas
- ❑ Easy set-up, no assembly required
- ❑ Allows multiple point measurement using a multiple channel electrometer and chambers



Patient treatment plan

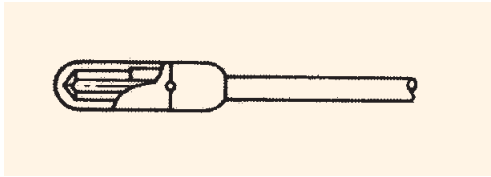


Isodose curve on phantom image

Therapeutic Chambers

All Capintec chambers are manufactured to the highest standards of quality. Each chamber is machined and built under the watchful eyes of master craftsmen with many years of experience in building precision instruments. Some of the chambers designed by Capintec, hold U.S. and foreign patents. Our quality control is second to none, making your purchase of a Capintec Ionization Chamber the right buying decision for dosimetry measurements.

PR-05 Mini Chamber

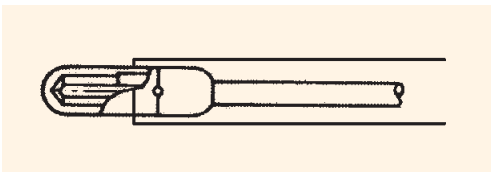


PR-05 Mini Chamber

The PR-05 chamber has a 0.14 ml active volume and is constructed of air equivalent conducting plastic. The outside diameter is 6.4 mm and is connected to triaxial 6' cable with a TNC connector. (BNC connector available upon request)

The PR-05 is used in Intra-Cavitary measurements, Iso-Dose Plotting, Depth Dose Measurements and Exposure Calibrations.

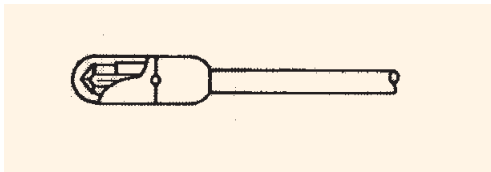
PR-05W Water-Proof Mini-Chamber



PR-05W Water-Proof Mini-Chamber

The PR-05W utilizes the PR-05 chamber and is water-proof. The measuring volume is open to the surrounding air via the connection cable. This allows the chamber to be placed in a Water Tank for precise measurements. TNC connector or BNC connector available upon request.

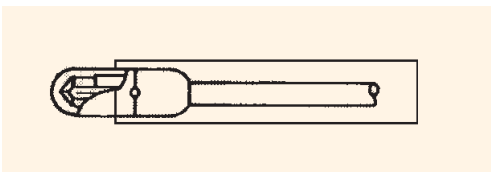
PR-05P Mini-Chamber



PR-05P Mini-Chamber

The PR-05P Mini Chamber has an active volume of 0.07 ml, currently the smallest chamber Capintec manufactures. It is constructed of air equivalent conducting plastic with an outside diameter of 6.4 mm and is connected to triaxial 6' cable with a TNC connector. (BNC connector available upon request)

PR-05PW Water-Proof Mini-Chamber

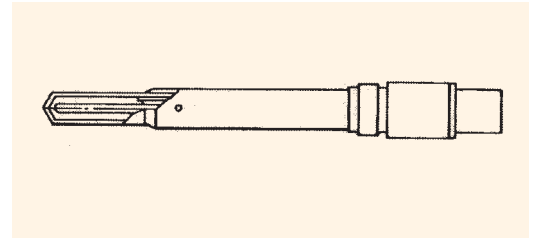


PR-05PW Water-Proof Mini-Chamber

The PR-05PW utilizes the PR-05P chamber and is water-proof. The measuring volume is open to the surrounding air via the connection cable. This allows the chamber to be placed in a Water Tank for precise measurements. TNC connector or BNC connector available upon request.

PR-06C Farmer Chamber

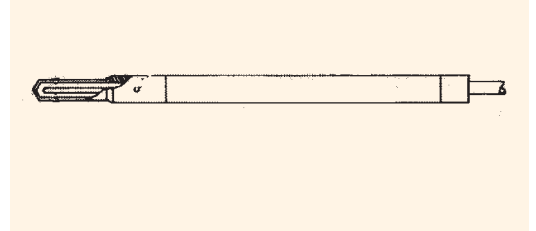
The PR-06C Farmer Chamber is one of the most widely used Capintec chambers. The active volume is 0.65 ml and is made of air-equivalent conducting plastic. It is manufactured to be mechanically rugged for many years of constant use. The chamber is normally fitted with a TNC style triaxial connector. Need adaptor cable for BNC. Its uses include exposure calibrations, depth dose measurements, iso-dose plotting and beam flatness verification.



PR-06C Farmer Chamber

PR-06G Farmer Chamber

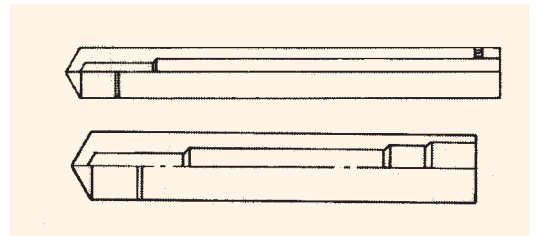
The PR-06G Farmer-type chamber has a fully guarded stem and offers a different approach to measurement. Like the PR-06C, it has an Active Volume of 0.65 ml and is made of air-equivalent conducting plastic. This unit is mechanically rugged and is connected with 6 feet (1.764 m) of triaxial cable and a TNC connector (BNC connector available upon request).



PR-06G Farmer Chamber

BC-06F Build-Up Cap For Chamber

A series of polystyrene caps providing optimized electron equilibrium for one photon energy range, is available in thicknesses for cobalt-60 and 4, 6, 10, and 18 MeV photons. (For higher energies, use the Cobalt-60 cap in a Capintec PP-33 phantom of the proper thickness.) Available in 4,6,8,10,15,18 MeV



BC-06F Build-Up Cap For Chamber

Calibration

Capintec On-Site Calibration

All Capintec ionization chambers are calibrated on site at our Pittsburgh facility by comparison with an ADCL calibration chamber using a GE orthovoltage x-ray machine. This in-house calibration includes selected points from 69 kVp, 1.0 mm Al HVL through 250 kVp, 18.0 mm Al HVL.

ADCL Calibration

Therapeutic or diagnostic chambers may also be calibrated at an ADCL (Accredited Dosimetry Calibration Laboratory) for an additional charge. Capintec has a calibration agreement with the University of Wisconsin. A chamber can be checked or serviced at the Capintec repair facility, forwarded to the University of Wisconsin ADCL, and returned to the customer on one purchase order. In addition, Capintec/UW ADCL offers a full 90 day guarantee. If a calibrated chamber fails for any reason within 90 days, we will repair and recalibrate it at UW ADCL free of charge. No other ADCL offers this guarantee!



Capintec, Inc.
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CRC[®]- Beta Enhanced Counter

Capintec is proud to introduce the new CRC[®]- Beta Enhanced Counter uniquely designed to handle a wide range of beta isotope activities.

The CRC[®]- Beta Enhanced Counter adds a new dimension to radionuclide measurement. Engineered specifically for pure beta emitters such as P-32, Sr-89 and Y-90, the CRC[®]- Beta Enhanced Counter takes the guesswork and errors out of your beta assays. Exacting attention to sample container, sample volume, activity concentration and impurity contaminant assure accurate and precise results every time. Based upon optimized electronics and counting geometries, the CRC[®]- Beta Enhanced Counter offers uncompromised measurements combined with fast response times.



The CRC[®]- Beta Enhanced Counter offers technologists, physicians and radiopharmacists the most accurate method for proper assaying of activity. Time previously spent trying to optimize your dose calibrator for proper assaying is eliminated. Reproducible geometries and fine-tuning calibration numbers are all things of the past thanks to the sophisticated architecture of the CRC[®]- Beta Enhanced Counter.

Be sure to visit us in booth # 2022 at the ASTRO Annual Meeting in Salt Lake City to see these exciting products and many more.

If you are unable to attend the ASTRO Annual Meeting, you can get more information by:

visiting us on the web at www.capintec.com
calling 1.800.631.3826 or 201.825.9500; faxing 201.825.4829
or emailing us at www.getinfo@capintec.com