

IVB 1000

WELL CHAMBER

the one with the 100 mm sweet spot



Not Just for IVB Anymore

The IVB 1000 Well Chamber has received FDA 510(k) clearance for intravascular, HDR and LDR brachytherapy. With the addition of source holders for most HDR and LDR sources, the IVB 1000 is the perfect choice for your brachytherapy calibration needs.

- ▶ An exceptionally long 100mm sweet spot, unmatched in other chambers, accommodates long source trains and wires
- ▶ Exceptional precision and accuracy for brachytherapy source activities
- ▶ Utilizes the same reliable construction techniques as the highly acclaimed HDR 1000 Plus Well Chamber, also from Standard Imaging
- ▶ Satisfies NRC requirements and TG 60 quality assurance requirements for IVB source strength verification
- ▶ 49 of the top 50 U.S. cancer centers use a Standard Imaging Well Chamber (*U.S. News and World Report 2002 cancer center rankings*)

Radiation Calibration and QA Instruments
COMPLETE SOLUTIONS PROVIDED *for health care*

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For further information and a quotation please contact
Colin Walters at
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IVB 1000 Well Chamber Specifications

Active Volume: 475 cm ³	Response: ± 0.3% over 100 mm at center of axis, typical
Connector: Two lug triaxial BNC is standard Optional TNC, Type M or BNC + Banana	Case: Optional rugged carrying case REF 50026
Cable: 1 meter (3 feet)	Dimensions
Range: 10 U to 80 MU	Height: 25.9 cm (10.2 in)
Bias voltage applied: ± 300 volts, typical	Diameter: 10.2 cm (4.0 in)
Leakage: Less than 50 fA	Weight: 3.6 kg (8.0 lbs)
Stability: 0.2 % (reproducibility)	Insert Height: 22.4 cm (8.8 in)
Sensitivity: Approx. 2.4 pA/U for ¹⁹² Ir Approx. 38.5 nA/Cy/s for ⁹⁰ Sr/ ⁹⁰ Y	Insert Diameter: 3.5 cm (1.4 in)

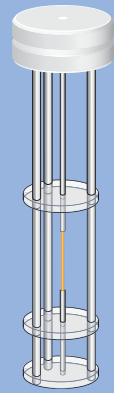
Specifications are subject to change without notice



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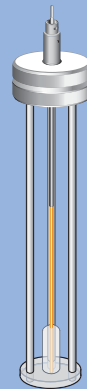
Source Holder for Single LDR Seeds (REF 70043)

Designed to position an individual LDR brachytherapy seed, such as Iodine, Iridium or Palladium, for a measurement. This source holder has a 1.2 mm diameter opening.



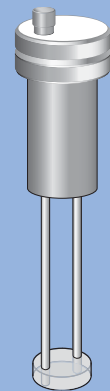
Preloaded Needle Source Holder (REF 70051)

Allows calibration and visual verification of a sterilized needle filled with seeds and spacers. The sterilized needle is fitted to the sterilized source holder through a luer lock fitting. The universal luer lock mates to the needle through an adjustable needle hub to needle opening interface offering seamless integration from seeds to the needle. Seeds are dropped into the source holder channel where they allow visual verification of seed and spacer sequence. They are then placed into the well chamber for absolute calibration. Source trains of one to ten seeds may be verified and calibrated while maintaining sterility.



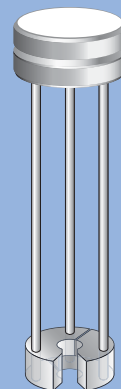
Source Holder for RAPID Strand™ Iodine Seeds (REF 70048)

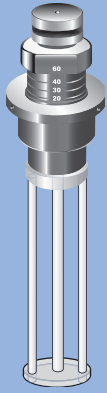
Provides a fast and convenient method to perform a quality assurance measurement of the I-125 RAPID Strand™ under sterile conditions. This source holder is constructed to simultaneously measure the ten 6711 seeds in the strand. A correction factor has been determined to calculate the activity.



Source Holder for MICK® Cartridges (REF 70047)

Provides a consistency QA check of the activity of seeds loaded into a MICK cartridge. This source holder positions the cartridge for a quick, reproducible measurement. Spring-loaded clamp attachment quickly grips cartridge to minimize finger dose. Works with the new Shielded/Disposable Mick® Magazines.

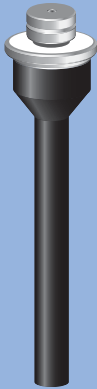




Novoste Source Holder for $^{90}\text{Sr}/^{90}\text{Y}$ IVB Sources (REF 70036)

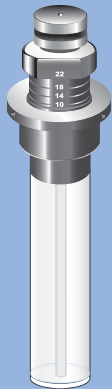
Centers the source in the active area of the well chamber for measurement. The collar is adjustable for sources of 30, 40 and 60 mm lengths.

This source holder accommodates both the 3.5 and 5.0 mm french catheters.



X-Ray Contamination Test Tool (REF 70042)

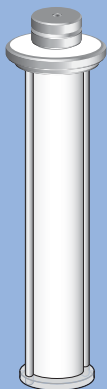
Designed for use with $^{90}\text{Sr}/^{90}\text{Y}$ sources only. It consists of a 7mm thick wall of Delrin that absorbs nearly all of the beta particles. It allows only the bremsstrahlung radiation to pass through the source holder for measurement.



Source Holder for Iridium IVB Sources (REF 70034)

Centers the source train in the active area of the well chamber for a measurement. The source holder is adjusted to accommodate the number of seeds in the source to be measured.

The collar is adjustable to measure 6, 10, 14, 18, or 22 seeds.

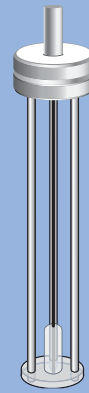


Source Holder for HDR Iridium (REF 70044)

Designed for high dose rate iridium measurements. It has a 2.2 mm diameter opening for the catheter. A rubber O-ring secures the catheter with a uniform constricting pressure to prevent any movement of the catheter.

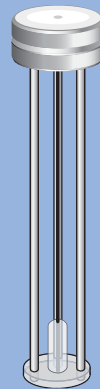
Source Holder for Imagyn isosleeve™ (REF 70050)

Designed for QA measurements of the **isosleeve™** prostate brachytherapy needle delivery system from Imagyn Medical Technologies. Each **isosleeve™** needle is provided sterilized and custom-loaded according to the treatment plan. The polyimide sleeve within the **isosleeve™** needle contains the seeds and spacers and may be removed from the needle hub so that the seeds can be assayed in the source holder.



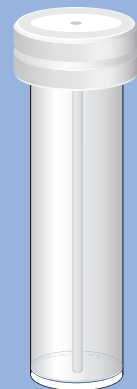
Source Holder for IBt InterStrand® (REF 70049)

Designed for QA measurements of International Brachytherapy InterStrand® source trains. These consist of ten InterSource ¹⁰³Pd seeds or ten InterSource ¹²⁵I seeds, with an absorbable suture contained within the open annulus of each seed. The InterStrand® stainless steel shielding container connects to the top of the source holder of easy transfer of the InterStrand® to the source holder for measurement.



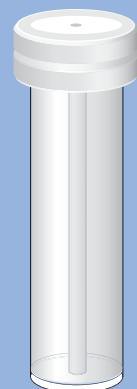
Source Holder for Cesium (REF 70045)

Commonly used with manually loaded cesium sources this source holder has a 5.0 mm diameter opening. A spacer within the source holder positions the cesium insert for a measurement. The spacer, for positioning the cesium source, is removable.



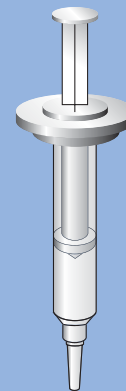
Source Holder for Cesium Remote Afterloading (REF 70046)

Designed for use with LDR remote afterloading treatment systems, this source holder has a 7.1 mm diameter opening. There is no spacer because the afterloading system positions the source.



Source Holder for Measuring 5 cc and 10 cc syringes (REF 70026)

Provides a quick and convenient QA measurement of $\text{Metastron}^{\text{TM}}$ Sr^{89} , Sm^{153} , and I^{131} vials and most liquids in a 5 cc or 10 cc syringe. Source Holder 70026 includes one set of two syringe holders, one for a 5 cc syringe and one for a 10 cc syringe.

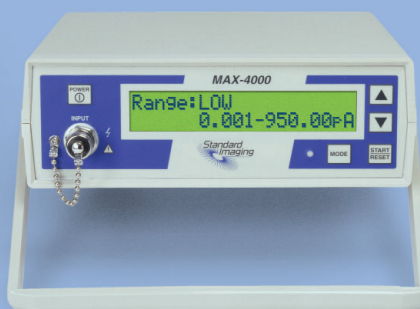


Complete your brachytherapy system with the MAX 4000 Electrometer

Exceptional sensitivity and a wide dynamic range makes the MAX 4000 the ideal electrometer for all brachytherapy measurements. It provides immediate measurements of even the lowest activity sources.

The MAX 4000 Electrometer is the ideal addition to complete a comprehensive brachytherapy calibration system.

For additional detailed technical specifications for the MAX 4000 Electrometer, please request the MAX 4000 flyer.



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