

HDR 1000 PLUS WELL CHAMBER



PRECISE, ACCURATE

An industry standard for independently
verifying prescribed patient dose



- CONFIDENCE IN BRACHYTHERAPY SOURCE CALIBRATION**

The HDR 1000 Plus Well Chamber is an air-communicating chamber, so there is no inaccuracy due to an undetected gas leak as in a pressurized chamber. The HDR 1000 Plus is ideal for low dose rate and high dose rate brachytherapy. Source holders are available for most existing sources.

- WHY PERFORM INDEPENDENT VERIFICATION?**

AAPM TG 56 & TG 40, IAEA TRS 398, and many manufacturers of brachytherapy seeds recommend independent verification of their source strengths. Centers in the U.S. may also be forgoing reimbursement income by not performing independent verifications. CPT code 77370 provides reimbursement for on-site calibration of brachytherapy seeds. To receive the reimbursement a facility is required to have a NIST traceable calibration for instruments like the HDR 1000 Plus or IVB 1000 Well Chambers for on-site calibrations.



Features

International Acclaim

- HDR 1000 Plus has been performance validated in more than 50 scientific presentations and is used by Primary and Secondary Radiation Standards Laboratories throughout the world.

Assurance is Confidence

- Precise and accurate calibration of HDR and LDR Iridium, Iodine, Palladium, Cesium, and Strontium brachytherapy source activities. Calibrates individual and multiple sources.

Wide Range of Uses

- Outstanding versatility, use one chamber for many isotopes
- Source holders available for most existing sources Including: Cesium, Iridium, HDR Iridium, LDR Iridium, Iridium Wire, Iodine, Palladium

HDR 1000 PLUS WELL CHAMBER (REF 90008) SPECIFICATIONS

ADCL CALIBRATIONS HDR ¹⁹²Ir and/or LDR radionuclides from various manufacturers as requested

ACTIVE VOLUME 245 cm³

CONNECTOR Two lug triax BNC (standard)
TNC, Type M, or BNC + Banana (optional)

RANGE 10 U to 80 MU 0.01 mCi to 20 Ci

CABLE 3 ft, 1 m

BIAS VOLTAGE ± 300 volts, typical

LEAKAGE Less than 50 fA

STABILITY 0.2% (Reproducibility over 2 years)

RESPONSE ± 0.5% over 25 mm at center of axis

SENSITIVITY

SOURCE	Current to Air Kerma Strength (U=1uGym ² /h)	Current to Apparent Activity
HDR Iridium:	2.1 pA/U	8.6 nA/Ci
Cesium:	2.0 pA/U	5.6 nA/Ci
LDR Iridium:	2.3 pA/U	9.1 nA/Ci
Iodine:	4.3 pA/U	5.4 nA/Ci
Palladium:	2.1 pA/U	2.4 nA/Ci

A_{ion} 0.9996, typical

ACCESSORIES Case (REF 50004) included
Wall mount accessory (REF 70007)
(5) Interlocking 1" lead rings (REF 70125)
Carrying case for any Comprehensive Calibration System (REF 70012)

DIMENSIONS *Height:* 6.1 in, 15.6 cm *Insert Diameter:* 1.4 in, 3.5 cm
Diameter: 4 in, 10.2 cm *Insert Height:* 4.8 in, 12.1 cm
Weight: 6.1 lbs, 2.7 kg

Specifications subject to change without notice.



sourceholders.standardimaging.com

widest variety of source holders for use with the HDR 1000 Plus and IVB 1000 Well Chambers



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