



HEAD-SCATTER MEASUREMENT

Measure head-scatter factors
down to a 3 cm x 3 cm field size
simply and easily without
side scatter from a water tank



MINIPHANTOM & IN-AIR COMPARISON JIG

● VERSATILE AND EASY TO USE

The detection system is comprised of an ion chamber and the columnar MiniPhantom. The MiniPhantom is a d_{\max} columnar build-up cap which is 3 cm in diameter and 20 cm in length.^{1,2} Scribed lines on the MiniPhantom facilitate alignment of the ion chamber's collecting volume at 10 cm from the end of the phantom. The stand also allows the MiniPhantom to be positioned horizontally for measuring beams.

¹ PA. Jursinic and B.R. Thomadsen, "Measurement of head-scatter factors with cylindrical build-up caps and columnar miniphantoms," **Med. Phys.** 26(4), April 1999.

² T.Z Zhu and B.E. Bjarngard, "Head scatter off-axis for megavoltage x-rays," **Med. Phys.** 30(4), April 2003.

³ Individual components may be purchased separately.

⁴ MiniPhantom available for other Farmer-type ion chambers.

● ACCOUNT FOR STRAY RADIATION

Head-scatter, the stray radiation inside the head of a linear accelerator, occurs with each machine, some of which hits the patient. This radiation must be taken into account when determining the total radiation dose given.

The Standard Imaging MiniPhantom allows the measurement of head-scatter factors with standard Farmer-type ion chambers. The phantom stand is small thereby minimizing scatter. The stand can also be used as an in-air comparison jig, allowing two ion chambers to be positioned side-by-side in a highly reproducible manner.

● MiniPhantom SPECIFICATIONS

MiniPhantom Detection System³, REF 72195 is comprised of:

- MiniPhantom for Exradin® A12 Farmer Type Ion Chamber⁴, REF 72194
- MiniPhantom Stand/In-Air Comparison Jig, REF 72193

ORDERING
INFORMATION

MINIPHANTOM & IN-AIR COMPARISON JIG REF 72193