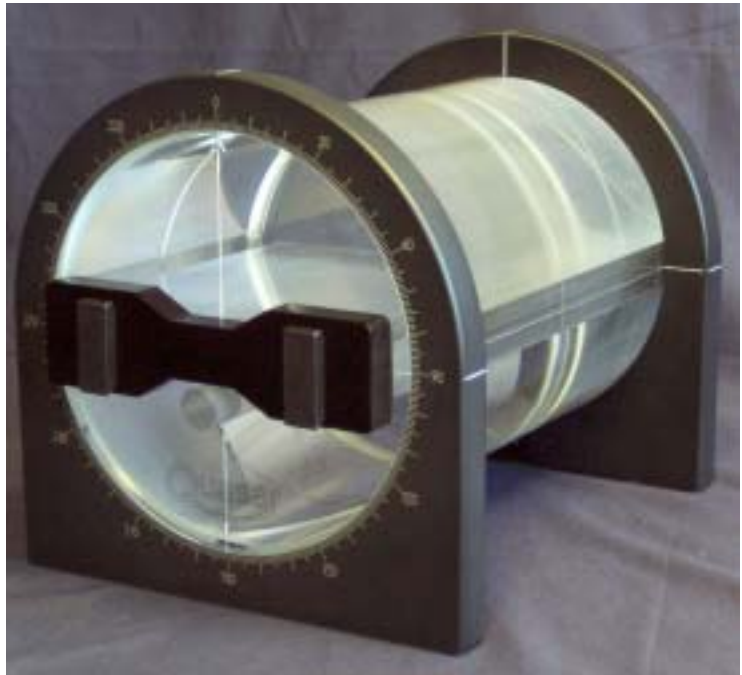


QUASAR™ Verification Phantom

A cost effective tool designed to support dosimetric measurements of external beam radiotherapy procedures, the QUASAR™ Verification Phantom enables ion chamber and film measurements in a solid acrylic cylinder. With the increasing complexity of the radiation therapy planning process it is important that physicists have the tools necessary to perform verification tests accurately and efficiently. Designed by experts, including Jake Van Dyk, at the London Regional Cancer Centre the QUASAR™ Verification Phantom enables accurate measurements on a wide variety of radiotherapy techniques including IMRT and Tomotherapy. The phantom includes several features designed to decrease the time physicists spend confirming their measurements.



360° rotation of cylinder allows film to be orthogonal to any beam angle

Description

The QUASAR™ Verification Phantom is comprised of a cylindrical phantom, a film cassette and several inserts for holding and positioning an ion chamber. The film cassette holds ½ sized sheets of film and can hold either one or two of these sheets at a time. Inserts are available for ion chambers from several major suppliers.

The cylinder is supported at both ends and may be rotated to any angle about the horizontal central axis. There is a rectangular opening in the end of the cylinder to hold the film cassette or the ion chamber inserts. There is an additional optional location for an ion chamber 25 mm below the central axis.

When the film cassette is in the cylinder the axis of the cylinder bisects the primary film location in the cassette. The secondary film location in the cassette is 5 mm below the primary location. Pins can be positioned in the cassette to puncture the film.

Using the positioning inserts the operator can place the ion chamber at the mid point of the central axis of the cylinder. The operator can adjust the position of the ion chamber, radially, in 2.5 mm increments. In all of these positions the ion chamber remains in the plane of the primary film location.

The QUASAR™ Quality Assurance System for Advanced Radiotherapy tests a wide variety of dosimetric and nondosimetric functions of Radiation Therapy Planning Systems and CT simulators using innovative QA tools.

A valuable part of any quality assurance program the QUASAR™ phantoms are ready to be incorporated into your QA protocols today. The phantoms are used for regularly scheduled testing, as well as commissioning new systems and upgrades, and testing repairs.

QUASAR™ provides you with the confidence that your radiation treatment planning software and CT simulators are performing to their full potential.

Visit www.QUASARphantoms.com to see all the QUASAR™ phantoms.



QUASAR™ Verification Phantom Specifications

- Main body component, acrylic, cylindrical shape, 20 cm diameter, 30 cm long
- Film cassette can take 2 half size sheets of film (5"x6" in), separated by 5mm spacer
- Ion chamber measurement locations along central axis and 25mm below center film
- Laser alignment marks, 360 degree front face scale
- Optional leveling and alignment bar
- Materials: acrylic, polyethylene, rubber
- Container for storage and handling, optional shipping case
- User's Guide with Quality Assurance Worksheets



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