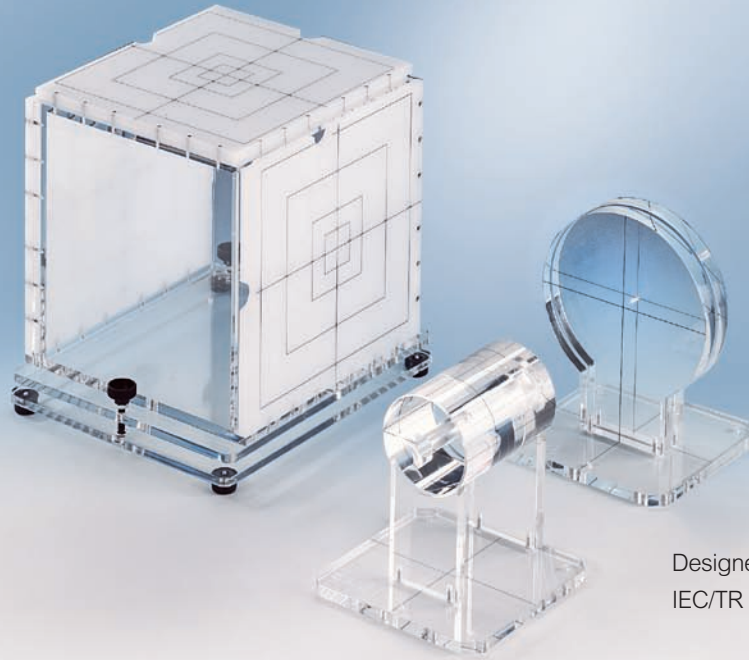


# Phantoms for Quality Assurance QA in radiotherapy and at simulators



Designed according to  
IEC/TR 60977 and DIN 6874-5.

## Tools to simplify QA tasks

**Cubic Phantom:** The cubic phantom is used for the verification of light field/radiation field conformance as well as for other constancy checks with radiographic film. The film can be placed horizontally or vertically behind a defined layer of build-up material. The phantom is provided with scribed lines for field size set-up and with fiducial markers to measure deviations of the radiation field. The ideal film size is  $300 \times 300 \text{ mm}^2$ , but due to the special construction of the phantom, any film size can be used.<sup>1)</sup>

**Disk Phantom:** The disk phantom is used for verification of the isocenter. The film is fixed between the two plexiglass disks and the defined isocenter is determined by means of an appendant marker. This phantom offers an easy and accurate method for the verification of the isocenter accuracy.<sup>1)</sup>

**Cylindric Phantom:** The cylindric phantom is designed for measurements of dose constancy in various gantry angles and in arced beams. The phantom can be configured for different chambers and allows a fast and easy reproduction of the set-up. In combination with an adapter containing a small steel ball, the phantom can also be used to verify the mechanical stability of simulator gantry and image intensifier position. Adapters can be delivered for our ion chambers CC13, CC13-S, CC25, FC65-P, FC65-G and FC23-C.

**Base Plate:** Each of these phantoms can be used with this base plate. The unique levelling mechanism ensures simple and accurate set-up of the phantoms, irrespective of the subsurface.

The logo for Iba, consisting of a stylized lowercase 'i' with a dot above it, followed by the letters 'ba' in a cursive, handwritten-style font.

<sup>1)</sup> For film dosimetry the OmniPro-Accept software but also OmniPro-I<sup>2</sup>mRT can be used.

# Technical specifications

## Phantoms for Quality Assurance

	Base Plate	Cubic Phantom	Disk Phantom	Cylindric Phantom
Material:	PMMA	PMMA	PMMA	PMMA
Weight:	2.5 kg	8.5 kg	2.3 kg	2.2 kg
Size:	300 mm (L) x 300 mm (W) x 25 mm (H)	300 mm (L) x 300 mm (W) x 310 mm (H)	200 mm (L) x 200 mm (W) x 260 mm (H)	200 mm (L) x 200 mm (W) x 210 mm (H)
Build-up layer:	–	10 mm	–	–
Thickness of disks:	–	–	20 mm	–
Diameter:	–	–	200 mm	100 mm
Measuring depth:	–	–	–	R = 50 mm

Technical data is subject to change without prior notice.

### Manufacturer:

Germany

#### **IBA Dosimetry GmbH**

Bahnhofstr. 5  
90592 Schwarzenbruck  
Tel.: +49 9128 607 0  
Fax: +49 9128 607 10

USA

#### **IBA Dosimetry America**

3150 Stage Post Drive, Suite 110  
Bartlett, TN 38133  
Tel.: +1 901 386 2242  
Fax: +1 901 382 9453

Sweden

#### **IBA Dosimetry AB**

P.O. Box 1004  
751 40 Uppsala  
Tel.: +46 18 18 07 00  
Fax: +46 18 12 75 52

China

#### **IBA Dosimetry China**

No.6, Xing Guang Er Jie Beijing  
OPTO-mechatronics  
Industrial Park (OIP),  
Tongzhou District  
Beijing 101111  
Tel.: +86 10 8080 9288  
Fax: +86 10 8080 9299

Protect,  
enhance  
and save  
lives

*iba*