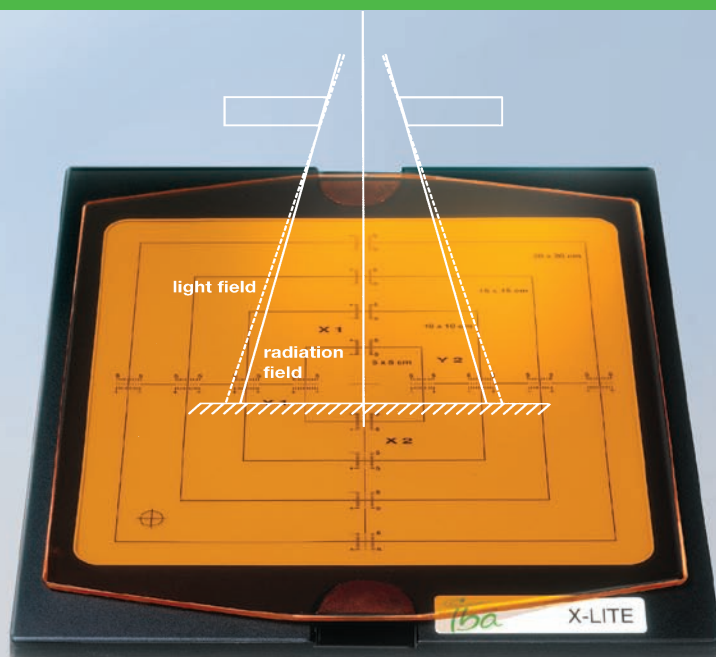


X-LITE

QA tool for light field alignment checks



Light up
your radiation fields.

Fast and precise alignment

Correct alignment of the light field with the radiation field is essential for reliable treatment set-up. According to national and international recommendations, e.g. NACP (Acta Radiologica Oncology 19 Fasc 1, 1980) and IAEA (Technical Report Series No 277, 1987), this alignment should be checked at least once a week and should correspond to within ± 2 mm at SSD 100 cm.

The X-LITE with a fluorescent plate helps you to align the accelerator radiation fields on the treatment table quickly and directly. The plate is activated by ionizing radiation, producing a green fluorescence which is clearly visible for a few minutes after the radiation is switched off.

The 5 x 5, 10 x 10, 15 x 15 and 20 x 20 cm² active areas are permanently marked with field scales in centimetres.

A protective red filter prevents activation of the phosphor by the light field from the gantry head or by ambient light. Irradiation photons and electrons penetrate the filter to activate the plate.

Using X-LITE is easy, and alignment checks can be part of the daily routine. With the filter in place, align the light field according to the scale on X-LITE. Put any required build-up material on the plate and irradiate. Remove the filter from X-LITE and check the radiation field alignment.

It is not necessary to wait for the afterglow to fade between irradiations, since the contrast is high as long as the following irradiation uses the same dose or higher.

Technical specifications

X-LITE

Active area:	23 cm x 23 cm
Field scale:	5 cm x 5 cm, 10 cm x 10 cm, 15 cm x 15 cm and 20 cm x 20 cm
Deviation scale:	± 5 mm in steps of 1 mm from each field scale
Scale accuracy:	± 1 mm
Fluorescence:	green (max 530 nm)
– lifetime:	readable 2-4 minutes after irradiation
– intensity:	240 mcd/m ² 1 min / 150 mcd/m ² 2 min, after irradiation (irradiation with 6 MV at 100 cm SSD, 2 Gy dose, 13 mm build-up)
Energy range:	> 1 MeV
Maximum dose:	6 Gy/exposure
Maximum dose:	photons, electrons
Daylight filter:	red, removable
Material:	plexiglass / polycarbonate
Operating temperature:	15 – 45°C
Dimensions:	320 mm (L) x 276 mm (W) x 14 mm (H)
Weight:	1.4 kg

Technical data is subject to change without prior notice.

Light up your radiation fields.

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Protect,
enhance
and save
lives

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