

R302MLPI/A

COLLIMATOR WITH MULTI-LAYER SQUARE-FIELD AND SINGLE-LAYER ROUND-FIELD X-RAY COLLIMATOR SUITABLE FOR INSTALLATION ON STATIONARY X-RAY EQUIPMENT. MOUNTING PLANE AT 80 MM (3.14") FROM THE FOCUS.

The x-ray field is defined by 6 pairs of shutters, four of which are lead-lined. The six pairs of shutter move perpendicularly within the x-ray field. Two pairs of bronze shutters are located near the focus, two are located near the entrance window and two are located near the exit window of the x-ray beam from the collimator. The latter shutters serve to accurately define the x-ray field edges. The round field is located mid-way within the collimator. It is defined by 12 lead shutters and is tangent to the external edge of the maximum square field.

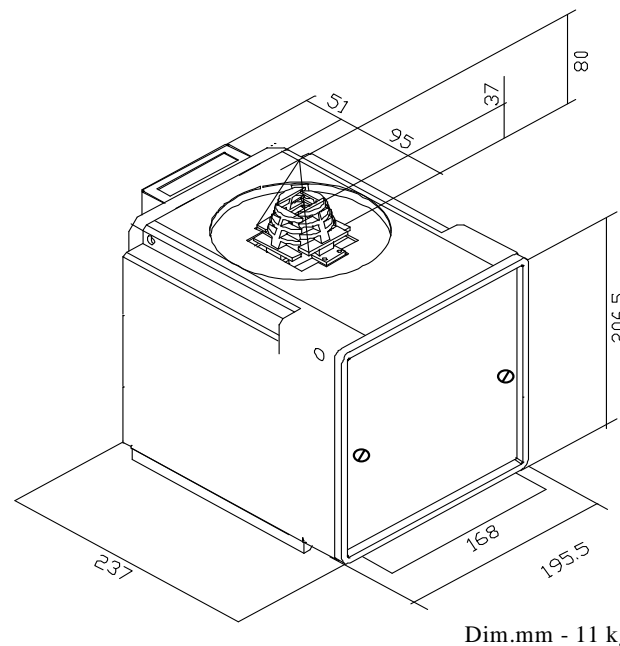
Shutter movements are motorised: positioning is potentiometer controlled. As an option, positioning may be controlled from the front panel by two knobs for the square field and, by pushbuttons for the round- and square fields.

The square- and round-field X-ray beam Limiting Device is designed for installation on rotating or fixed anode X-ray tubes (EN 60601-1-3 par 29.202.3); motorised controls provide for the adjustment of the X-ray field dimension to the size of the image receptor or to that of the anatomical area of interest. Adjustment to the area under investigation is controlled remotely.

Direct visualisation of the x-ray field is provided by a light beam which corresponds to the x-ray beam, within a tolerance of two percent of the selected FFD (SID) value. The light-field centre is provided by the intersection of two perpendicular lines silk-screened into the Lexan window and projected on the light field by the light beam.

To activate the light field, press the area marked with the light symbol on the front of the device. The light will switch on for 30 seconds and an electronic timer will switch the lamp OFF automatically.

Average illumination is not less than 160 lux; edge contrast ratio is minimum 4:1.



TECHNICAL FEATURES:

- External adjustment of mirror angulation.
- High luminosity provided by a quartz iodide lamp.
- Timer limiting projection lamp exposure time to 30 seconds thus extending lamp life by preventing overheating.
- Radiation shielding: 150 kVp - 4mA
- Minimum inherent filtration 2 mm aluminium equivalent (1mm on request).
- Continuous film coverage from Min: 00 x 00 cm to Max: 43 x 43 cm at 100 cm FFD (SID).
- Round-field from 10 cm (4") to 60 cm (24"), tangent externally to the maximum square field.

OPTIONAL ITEMS:

- RO 001 - Mounting flange, 20 mm thickness.
- RO 002 - Spacers for mounting flange, 1,5mm thickness.
- RO 126 - Mylar mirror for 0,3 mm Al, inherent filtration.
- RO 161 - Guide spacers for ionisation chamber.
- RO 175 - Glass mirror, 0,8 mm thickness (2 mm AL inherent filtration).
- RO 333 - Power Led.

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