

R225 ACS

MULTILAYER, SQUARE-FIELD ATOMATIC COLLIMATING SYSTEM FOR INSTALLATION ON STATIONARY X-RAY EQUIPMENT. MOUNTING PLANE AT 80 MM (3.14").

The square-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).

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.

Shutter movements are motorised through stepper motors that are controlled by the electronic board in the collimator and by two encoders operated by two knobs on the collimator front panel.

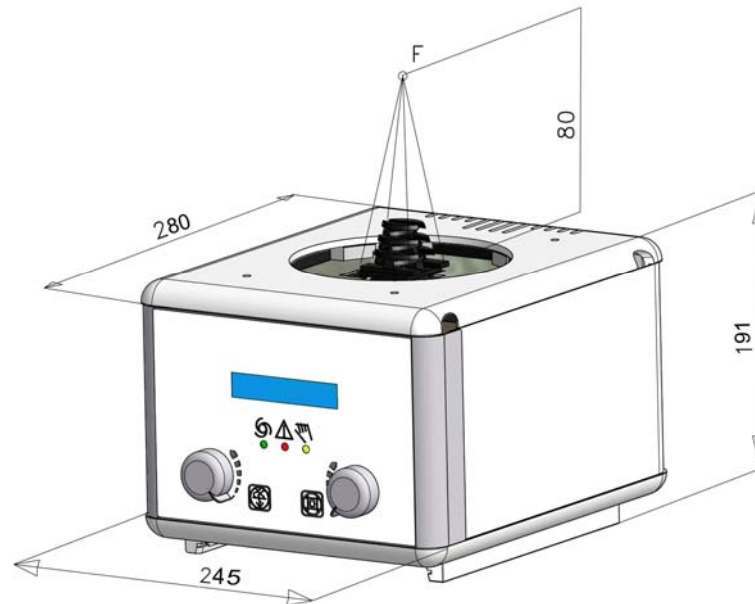
The microprocessor electronic board controls the stepper motors and provides the automatic setting of selected fields, via CAN-BUS protocol signals, and their repositioning when the Focus Film Distance (FFD) vary.

The electronic board also controls the stepper motor that provides the movements of the additional variable filtration in the collimator version that mounts this optional item.

A second electronic board assembled on the collimator first board, supplies a constant current to the power led, simulating the x-ray field, and feeds the cooling fan and laser to align the collimator with the image receptor.

TECHNICAL FEATURES:

- Variable square-field min: 4x4 cm. max: 48x48 cm. at 100 cm DFF.
- Cluster of power led to project the light field simulating the x-ray field.
- Timer to limit the lighting exposure time of the light field from 30 to 60 seconds, setting via CAN_BUS.
- 150 kVp 4 mA radiation shielding.
- Self-centring system to assemble the collimator to the x-ray



Dim in mm
9.6 kg

tube.

- Collimator rotation.
- Laser line to align the collimator with the image receptor.
- Minimum inherent filtration 2 mm aluminium equivalent (1 mm on request).
- Direct control via Can Bus.
- Automatic positioning of the x-ray field
- Led indicator on the front panel shows the mode of operation.
- Digital display of operations.
- Device monitoring collimator angulation.
- Key switch to change the system from automatic mode into manual.

OPTIONAL ITEMS:

RO 002 - Spacers, 1,5 mm thickness for mounting flange.

RO 305 - Additional variable filtration, automatic setting:

- 1 mm. Al. and 0,1 mm. copper,
- 1 mm. Al. and 0,2 mm. copper,
- 2 mm. Al.

RO 306 - Additional variable filtration manual setting.

RO 315 - Cover changed to mount the ionization chamber.

RO 320 - Motorised rotation, potentiometer controlled positioning.

RO308 - Interface for CanBus/collimator transmission of analog signals.

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