

R605/025/DASM

RADIOLOGICAL COLLIMATOR WITH STEP-MOTOR CONTROLS, PAIR OF RECTANGULAR SHUTTERS WITHOUT INTERFACE PCB. VERSION OF MODEL R605DASM

Automatic collimator for round and elliptical fields designed to operate with a mobile "C" arm Image Intensifier. The collimator is designed and constructed for installation on a rotating or fixed anode (EN 60601-1-3 par. 29.202.3).

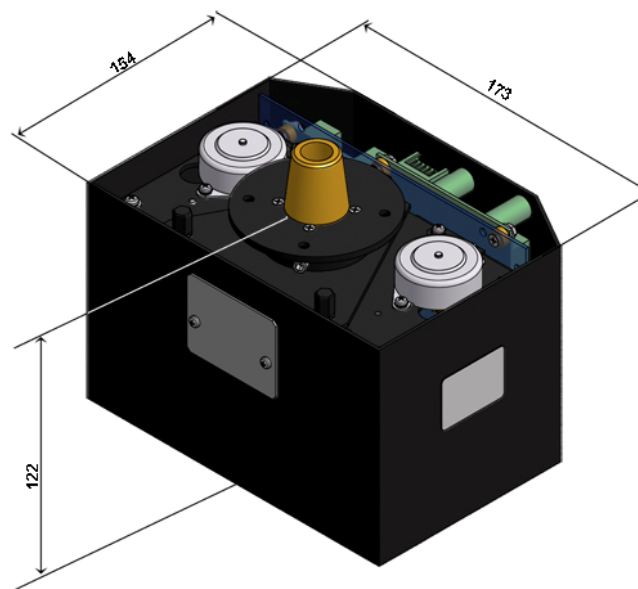
The motorised movement of the shutters permits the x-ray field adjustment to the area under investigation.

The round field is defined by 8 lead shutters located near the exit window and a brass cone near the X-ray focus. The elliptical field is defined by the round field and two rectangular lead shutters 3 mm thick, optional two rectangular copper shutters 1 mm thick, located near the collimator entrance window.

Round and elliptical field shutters are moved by 3 step motors, controlled through 3 PCBs (one for each motor). The instruction for the motors positioning are received externally with CanBus protocol, the board returns a signal indicating the correct motor positioning.

The two rectangular shutters move jointly and rotate $\pm 360^\circ$. During rotation the distance between the two rectangular shutters remains steady, with a tolerance of ± 10 mm. The field dimension at 100 cm (39,4") FFD (SID) with the collimator mounted at 80 mm (3.14") from the focus is 30 cm (12").

If a smaller field dimension is required, the secondary collimator needs to be substituted. The maximum field dimension required must consequently be specified in the order.



Dim. in mm
2.6 kg

TECHNICAL FEATURES:

- Inherent filtration AL equivalent (75 kV): 0 mm AL
- Round field selection: min. 5 cm, max. 30 cm
- Leakage radiation (125 kVp – 4 mA): 40 mR/h

OPTIONAL ITEMS:

- RO 066 - Al filter, fixed type, 0.5mm thickness.
- RO 067 - Al filter, fixed type, 1mm thick.
- RO 244 - Secondary collimator for 7" I.B.
- RO 245 - Secondary collimator for 9" I.B.
- RO 246 - Cardiac copper shutter, 1 mm thickness
- RO 265 - Copper shutters, 1 mm thick, substituting the pair of lead shutters, 3 mm thick.

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