

R605/170/DASM

RADIOLOGICAL COLLIMATOR STEP-MOTOR CONTROLLED. TWO PAIRS OF RECTANGULAR SHUTTERS WITHOUT INTERFACE PCB CUSTOMISED MODEL OF R 605/DASM.

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.

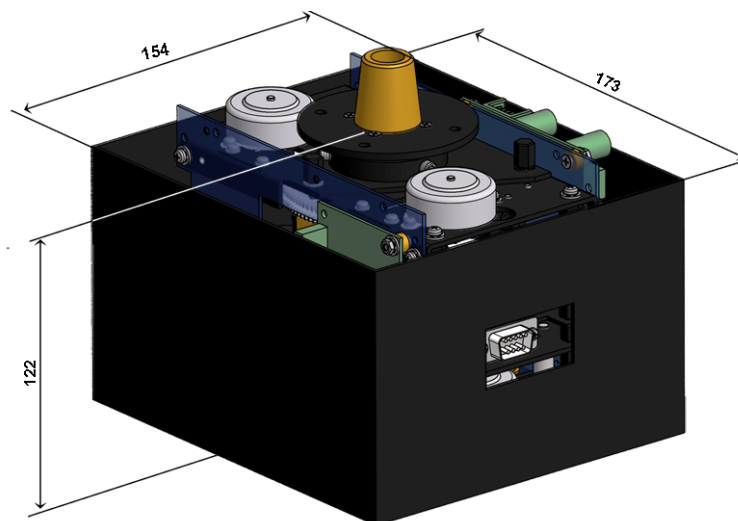
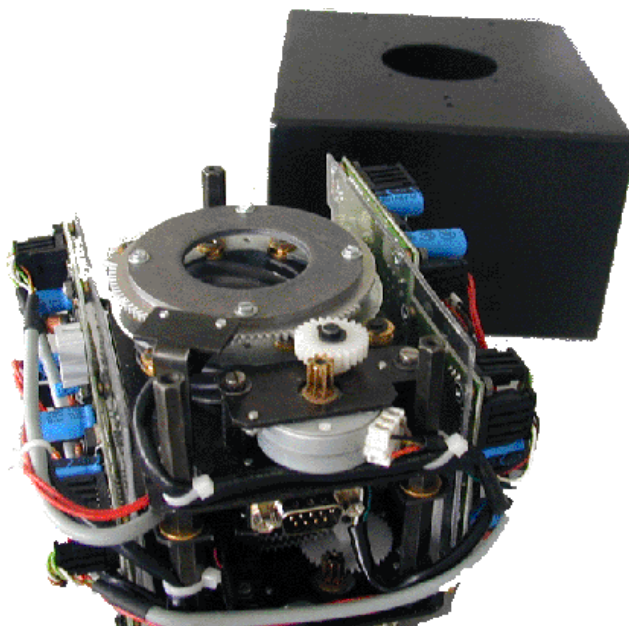
The round field is defined by 8 lead shutters located near the exit window and a brass cone near the X-ray focus. The elliptical field is defined by the round field, a pair of rectangular lead shutters 3 mm thick and a pair of rectangular copper shutters 1 mm thick, both located near the collimator entrance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

Round and elliptical field shutters are moved by 5 step motors, controlled through 5 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 pairs of 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 the required field dimension is smaller than the secondary collimator has to be substituted: therefore the maximum round field dimension has to be specified in the order.



Dim. in mm

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 mRH

OPTIONAL ITEMS:

- RO 066 - Al, filter, fixed type, 0.5mm thick
- 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 - Pair copper shutters, 1 mm thick, substituting the pair of lead shutters, 3 mm thick.

Ralco s.r.l.

RALCO SRL
VIA DEI TIGLI 13/G
20046 BIASSONO ITALIA
TEL. +39 0392497925
FAX. +39 0392497799
www.ralco.it email: ralco@ralco.it