

# R605DASM

**COMPACT RADIOLOGICAL AUTOMATIC COLLIMATING SYSTEM FOR ROUND AND ELLIPTIC FIELDS DESIGNED TO OPERATE WITH A MOBILE "C" ARM IMAGE INTENSIFIER EQUIPMENT.**

The round and elliptical fields are defined as follows: The round field by 8 lead shutters located near the exit window and a brass cone near the x-ray focus; the elliptical field by the round field and two pairs of lead rectangular shutters located near the collimator entrance window.

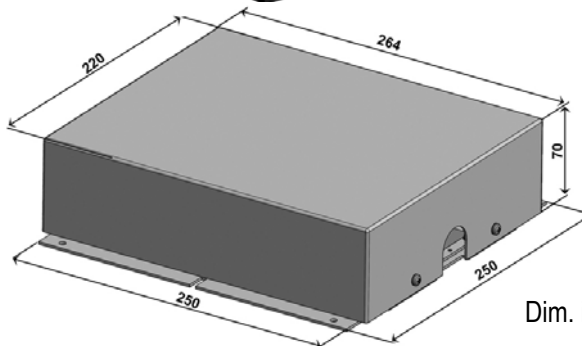
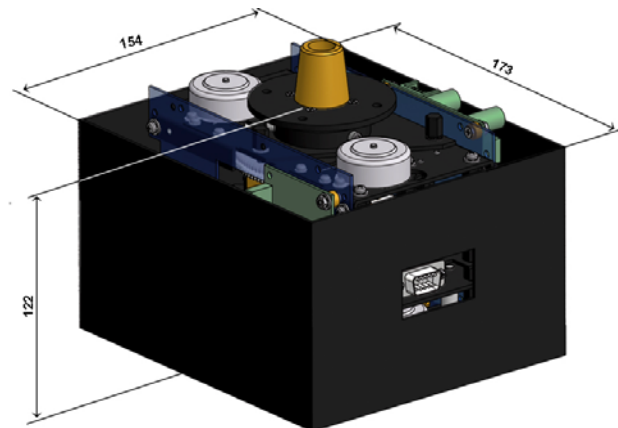
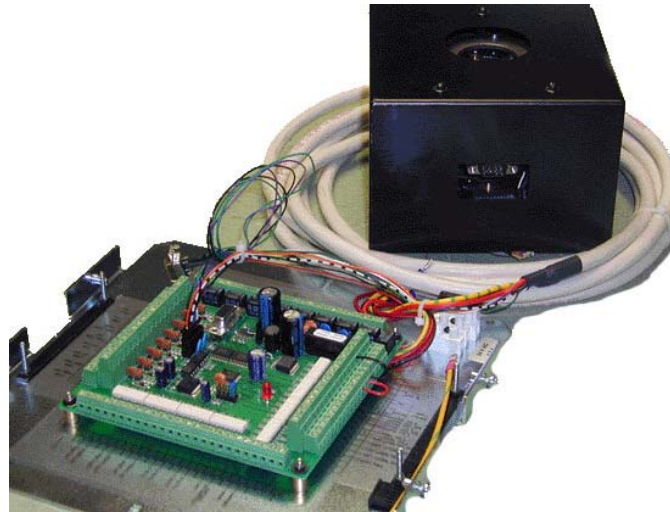
Round and elliptical field shutters are controlled by 5 stepping motors.

The collimator features 5 microprocessor circuits assembled into the collimator to control the five step-motors positioning via external signals received with CanBus protocol. The circuits return a CanBus protocol signal to indicate correct motor positioning.

The two pairs of lead rectangular shutters move jointly and both rotate  $\pm 360^\circ$ .

During rotation the elliptic field remains steady, with a tolerance of  $\pm 10$  mm, at a Focus Film Distance (FFD) of 100 cm.

The radiological collimator, with round and elliptic x-ray fields, is designed and constructed for installation with **rotating or fixed anode x-ray tubes (EN 60601-1-3 par. 29.202.3)**. The motorised movement of its shutters permits adjustment of the x-ray field to the area under investigation. The field dimension at FFD 100cm (39.4") with the collimator mounted at 80 mm (3.14") from the focus is 30 cm (12").



Dim. in mm

Standard version foresees 30 cm (12") at a focus distance of 100cm, for lower opening it is necessary to substitute the secondary collimator. Specify the maximum required field on the order.

## TECHNICAL FEATURES:

- Radiation shielding 125 - 4 mA.
- Inherent filtration absent
- Round field variable from a minimum of 5cm to a maximum of 30 cm at 1m FFD.

## 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 of copper shutters, 1 mm thick, substituting the pair of lead shutters, 3 mm thick.
- RO 268 - Interfacing external pcb for analogue signals

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