

OPTICA™ 20 MANUAL COLLIMATOR



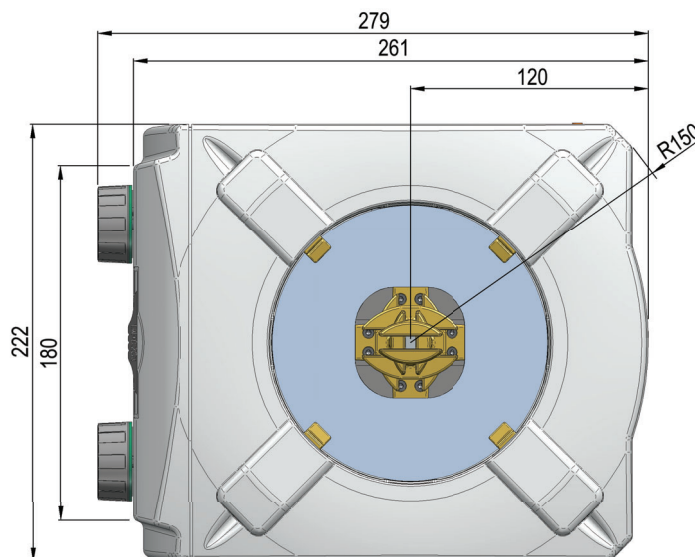
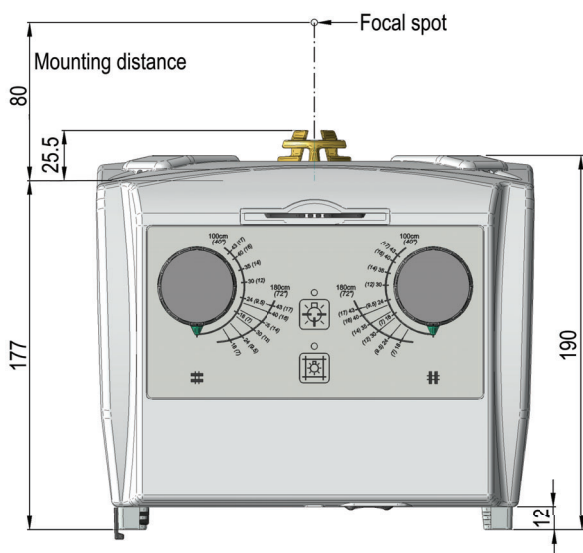
OVERVIEW

The Optica™ 20 is a manually operated collimator for integration with stationary radiography systems. The collimator is equipped with a long-life LED that projects a light field on the exposed area. Aligning the detector under the X-ray beam is made easy with a single center bucky laser line. Beam filtration is possible with the optional filter module. Choose between: no filtration, aluminum filtration or aluminum + copper filtration. The Optica 20 has an easily accessible internal USB port through which LED brightness, LED/laser timers and remote control can be configured.

The LED and laser can be controlled remotely via the Power and Communications connector by CAN-bus, digital I/O lines or RS232 (option). A DAP meter can be placed inside the collimator housing.

APPLICATIONS

- Stationary X-ray equipment for radiography up to 150 kV tube voltage.



OPTICA™ 20

Technical Specifications

Application	Stationary X-ray equipment for radiography up to 150kV tube voltage.
Shutters	4 pairs of shutters in two layers.
Mode of operation	Manual
Collimation	Maximum field size: 43 x 43 cm at 1m SID
Attenuation equivalent IEC 60601-1-3; \$3.8 / \$7.3 / \$7.4	min. 2.0 mm Aluminium equivalent (at 75kVp, HVL 2.2mm)
Added filtration (optional) IEC 60601-1-3; \$3.3 / \$7.3 / \$7.5	Models with filter unit include a manual operated filter disk with 4 positions Default filter combination: <ul style="list-style-type: none">• No added filter• 2 mm Al• 1 mm Al + 0.2 mm Cu• 1 mm Al + 0.1 mm Cu
Laser(s) (optional)	Single bucky center line laser, Class 2
Light source	White LED (5000K). Light source can be controlled by push button, external signal ("on/off") and CAN-bus
Timers	LED timer 20 to 90 seconds, factory setting 20 seconds Laser(s) timer 20 to 180 seconds, factory setting 20 seconds The timers are software configurable via USB connection
Light field illuminance IEC 60601-2-54; \$203.8.102.5	160-220 lx at 1m from focal spot, 35x35cm. Factory setting ≈200 lx. The illuminance is software configurable via USB connection
Light field contrast IEC 60601-2-54; \$203.8.102.5	≥4:1 at 1m from focal spot, collimated to 35x35cm
Leakage radiation IEC 60601-1-3; \$12.4	≤0.5 mGy/hr at 1m from focal spot, with 150kVp, 4mA
Mounting distance (mounting plane to focal spot)	80 ± 1mm
Accessory rails	Two accessory slots, 178mm wide x 2 mm high Optional: a double height accessory rails with four slots
DAP meter provision	A DAP-meter of max size 177x192x20 mm can be placed inside the collimator
Power supply	DC model: 24VDC; 24VA AC/DC model: 12-45VDC; 24VA or 20-30VAC; 35VA; 50/60 Hz
Weight	7.0 kg
Operating conditions	Ambient temperature +15°C ≤ T ≤ +40°C; Relative humidity 30% ≤ RH ≤ 75%; Altitude ≤ 3000m
Compliance	Conforms to the requirements of FDA (Class II) and the European Medical Device Directive (CE Mark, Class IIb)

MORE INFORMATION

Varex Imaging Corporation is a leading innovator, designer and manufacturer of X-ray imaging components, which includes tubes, digital flat panel detectors and other image processing solutions, which are key components of X-ray imaging systems.

For more information, please contact a Varex Imaging sales representative in your territory. Contact details are available at www.vareximaging.com/contact information.



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