## OPTICA™ 40 MOTORIZED COLLIMATOR







The Optica<sup>™</sup> 40 is a motorized collimator for integration with radiography and fluoroscopy systems. The collimator is controlled with the front knobs or remotely through its CANbus. A large touch-screen LCD display shows the X-ray tube tilting angle, selected beam filtration and field size with a given SID.

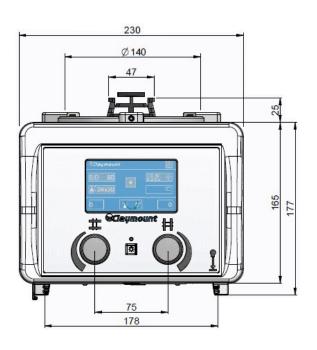
The Optica 40 is equipped with a long-life power LED that projects a bright light field on the exposed area. Aligning the detector under the X-ray beam is made easy with a center laser line.

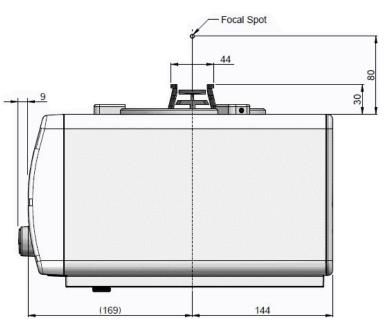


The beam filtration is possible with the optional motorized filter module. No filtration or three different aluminum plus copper combination filtrations are available. Shutter calibration and customization of user settings are easily performed through the software menu, accessible via the display.

## **APPLICATIONS**

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





## OPTICA 40

Multilayer, 4 pairs of shutters in 2 layers.  Mode of operation  Manually or remote control (both motor-driven)  Rectangular field Min. 00 x 00 cm Max. 48 x 48 cm at im SID  Attenuation equivalent EN-IEC 60601-13 2008  1.2 mm Aluminium at 75kV  2 additional motor driven filters, manually selectable or by CAN-bus. Selectable filter combinations:  No added filtration EC 60601-13; \$3.3 / \$7.3 / \$7.5  Pilter 1 = 1 mm Al + 0.1 mm Cu Filter 2 = 1 mm Al + 0.2 mm Cu Combined: 2 mm Al + 0.3 mm Cu  Semote comm.protocol  CAN bus  Class I laser  NuEC 60805-1  Class I laser  NuEC 60805-1  Class I laser  Adjustable timer.  Adjustable timer.  Adjustable timer.  Adjustable timer.  EC 60601-2-54, \$203.8.025  2-20 lx with illuminance set to 100% (Im from focus, 35x35cm)  2-21 (35x35cm at Im SID)  Exercise addition EC 60601-2-542009  2-21 (35x35cm at Im SID)  Exercise addition EC 60601-3-2008  One pair of ralls for 2 accessories, maximum 177mm wide and 2mm thick  Power consumption  2-24 V DC, 35 VA max  Weight  9-0 kg  Deparating conditions  Ambient temperature +10°C to +40°C. Atm. pressure 700-1060 hPa. Relative humidity 30% to 95%, non condensity.	Technical Specifications	
Manually or remote control (both motor-driven)  Rectangular field Min. 00 x 00 cm Max. 48 x 48 cm at im SID  Attenuation equivalent EN-HEC 606014-3; 23.3 / 97.3 / 97.5  Added filtration (optional) EC 606014-3; 23.3 / 97.3 / 97.5  Pilter 1 = Imm xl + 01 mm Cu Pilter 2 = Imm xl + 0.2 mm Cu Pilter 2 = Imm xl + 0.2 mm Cu Power LED, white with adjustable illuminance.  Class 1 laser  Class 1 laser  Class 1 laser  Class 1 laser  Power LED, white with adjustable illuminance.  Adjustable timer Factory setting: 20 seconds  Light field illuminance EC 60601-2-54; 2205.8:102.5  Adjustable timer Factory setting: 20 seconds  Sucky center of the second s	Application	Stationary X-ray equipment for radiography and fluoroscopy up to 150kV X-ray tube voltage.
Rectangular field Min. 00 x 00 cm Max. 48 x 48 cm at 1m SID  Attenuation equivalent EN-IEC 60601-1-3:2008  2 additional motor driven filters, manually selectable or by CAN-bus. Selectable filter combinations:  • No added filtration EC 60601-1-3:93.3 / 97.3 / 97.5  • Filter 1 = 1mm Al + 0.1 mm Cu • Filter 2 = 1mm Al + 0.2 mm Cu • Combined: 2 mm Al + 0.3 mm Cu  Remote comm.protocol  CAN bus  3 cdy center line laser EN-IEC 60825-1  Class 1 laser  Class 1 laser  Class 1 laser  Light field timer Adjustable timer Factory setting: 20 seconds  Light field illuminance EC 60601-254; \$203.8102.5  Light field contrast EC 60601-2-542009  \$41:(35x35cm at 1m SID)  \$41:(35x35cm at 1m SID)  \$60601-3-32008  Mounting plane from focus)  Accessory guides  One pair of rails for 2 accessories, maximum 177mm wide and 2mm thick  Power consumption  Ambient temperature +10°C to +40°C. Atm, pressure 700-1060 hPa. Relative humidity 30% to 95%, non condensing  Comforms to the requirements of FDA and the	Shutters	Multilayer, 4 pairs of shutters in 2 layers.
Min. 00 x 00 cm Max. 48 x 48 x d8 cm at im SID  Attenuation equivalent EN-IEC 60601-1-3:2008  1.2 mm Aluminium at 75kV  Added filtration (optional) EC 60601-1-3:2008  Added filtration (optional) EC 60601-1-3:93.3 / 97.3 / 97.5  EIter 1 - I mm Al + 0.1 mm Cu - Filter 2 - I mm Al + 0.2 mm Cu - Combined: 2 mm Al + 0.3 mm Cu - Combined: 2 mm Al + 0.3 mm Cu - Combined: 2 mm Al + 0.3 mm Cu - Combined: 2 mm Al + 0.3 mm Cu  CAN bus  Class 1 laser  Class 1 laser  Class 1 laser  Class 1 laser  Adjustable timer Factory setting: 20 seconds  Light field timer Factory setting: 20 seconds  Light field illuminance EC 60601-254; \$203.8102.5  EC 60601-2542:009  24.1 (35x35cm at 1m SID)  Leekage radiation EC 60601-3:2008  80 ± 1mm  Accessory guides  One pair of rails for 2 accessories, maximum 177mm wide and 2mm thick  Power consumption  Ambient temperature +10°C to +40°C. Atm. pressure 700-1060 hPa. Relative humidity 50% to 95%, non condensing  Conforms to the requirements of FDA and the	Mode of operation	Manually or remote control (both motor-driven)
EN-IEC 60601-3:2008  Added filtration (optional) EC 60601-3: \$3.3 / \$7.3 / \$7.5  Added filtration (optional) EC 60601-3: \$3.3 / \$7.3 / \$7.5  Eliter I = I mm AI + 0.1 mm Cu Filter 2 = I mm AI + 0.2 mm Cu Combined: 2 mm AI + 0.3 mm Cu Combined: 2 mm AI + 0.3 mm Cu  Exercise comm. Elic 60825-1  Eliter I = I mm AI + 0.2 mm Cu Combined: 2 mm AI + 0.3 mm Cu  Exercise community of the	Collimation	Min. 00 x 00 cm
Selectable filter combinations:  No added filtration (optional) EC 60601-1-3, 93.3 / 97.3 / 97.5  Filter 1 = 1 mm AI + 0.1 mm Cu Filter 2 = 1 mm AI + 0.3 mm Cu  CAN bus  Can	Attenuation equivalent IEN-IEC 60601-1-3:2008	1.2 mm Aluminium at 75kV
Class 1 laser  Power LED, white with adjustable illuminance  Adjustable timer  Adjustable timer  Adjustable timer  Adjustable timer  Factory setting: 20 seconds  Light field illuminance  EC 60601-2-54; \$203.8:102.5  230 lx with illuminance set to 100% (Im from focus, 35x35cm)  24:1 (35x35cm at 1m SID)  Leakage radiation  EC 60601-2-54;2009  Adjustable timer  Accessory guides  One pair of rails for 2 accessories, maximum 177mm wide and 2mm thick  Power consumption  Adjustable timer  Adjustable illuminance  Adjustable timer  Adjustable illuminance  Adjustable timer  Adjustable illuminance  Adjustable timer  Factory setting: 20 seconds  At 1 (35x35cm)  At 1 (35x35cm at 1m SID)  Adjustable illuminance  Adjustable illuminance  Adjustable timer  Adjustable illuminance  Adjustable timer  Adj	Added filtration (optional) IEC 60601-1-3; §3.3 / §7.3 / §7.5	Selectable filter combinations:  No added filtration  Filter 1 = 1 mm Al + 0.1 mm Cu  Filter 2 = 1 mm Al + 0.2 mm Cu
EN-IEC 60825-1  Light source  Power LED, white with adjustable illuminance  Adjustable timer. Factory setting: 20 seconds  Light field timer  Adjustable timer. Factory setting: 20 seconds  230 lx with illuminance set to 100% (1m from focus, 35x35cm)  Light field contrast EC 60601-2-54; \$203.8:102.5  24:1 (35x35cm at 1m SID)  Leakage radiation EC 60601-3:2008  Mounting distance of mounting plane from focus)  Accessory guides  One pair of rails for 2 accessories, maximum 177mm wide and 2mm thick  Power consumption  24V DC, 35 VA max  Weight  9.0 kg  Ambient temperature +10°C to +40°C. Atm. pressure 700-1060 hPa. Relative humidity 30% to 95%, non condensing  Compositance  Conforms to the requirements of FDA and the	Remote comm.protocol	CAN bus
Adjustable timer. Factory setting: 20 seconds  sight field illuminance EC 60601-2-54; \$203.8.102.5  >230 lx with illuminance set to 100% (1m from focus, 35x35cm)  >4:1 (35x35cm at 1m SID)  seakage radiation EC 60601-3-254:2009  seakage radiation EC 60601-3-2008  Mounting distance for mounting plane from focus)  Accessory guides  One pair of rails for 2 accessories, maximum 177mm wide and 2mm thick  Power consumption  24V DC, 35 VA max  Weight  Operating conditions  Ambient temperature +10°C to +40°C. Atm. pressure 700-1060 hPa. Relative humidity 30% to 95%, non condensing  Conforms to the requirements of FDA and the	Bucky center line laser EN-IEC 60825-1	Class 1 laser
Factory setting: 20 seconds  Light field illuminance EC 60601-2-54; \$203.8.102.5  >230 Ix with illuminance set to 100% (1m from focus, 35x35cm)  >4:1 (35x35cm at 1m SID)  Leakage radiation EC 60601-2-54; 2009  ≥0.5 mGy/hr (at 1m, 150kVp, 4mA)  Mounting distance for mounting plane from focus)  Accessory guides  One pair of rails for 2 accessories, maximum 177mm wide and 2mm thick  Power consumption  24V DC, 35 VA max  Weight  Operating conditions  Ambient temperature +10°C to +40°C. Atm. pressure 700-1060 hPa. Relative humidity 30% to 95%, non condensing  Compliance  Conforms to the requirements of FDA and the	Light source	Power LED, white with adjustable illuminance
EC 60601-2-54; \$203.8.102.5  >4:1 (35x35cm at 1m SID)  eakage radiation EC 60601-3:2008  Mounting distance for mounting plane from focus)  Accessory guides  One pair of rails for 2 accessories, maximum 177mm wide and 2mm thick  Power consumption  24V DC, 35 VA max  Weight  Operating conditions  Ambient temperature +10°C to +40°C. Atm. pressure 700-1060 hPa. Relative humidity 30% to 95%, non condensing  Compliance  Conforms to the requirements of FDA and the	Light field timer	
EC 60601-2-54:2009  Accessory guides  One pair of rails for 2 accessories, maximum 177mm wide and 2mm thick  Power consumption  Operating conditions  Accessory guides  Ambient temperature +10°C to +40°C. Atm. pressure 700-1060 hPa. Relative humidity 30% to 95%, non condensing  Compositions  Conforms to the requirements of FDA and the	Light field illuminance IEC 60601-2-54; §203.8.102.5	>230 lx with illuminance set to 100% (1m from focus, 35x35cm)
EC 60601-1-3:2008  **Substituting distance (of mounting plane from focus)  **Accessory guides  **One pair of rails for 2 accessories, maximum 177mm wide and 2mm thick  **Power consumption  **24V DC, 35 VA max  **Weight  **Operating conditions  **Ambient temperature +10°C to +40°C. Atm. pressure 700-1060 hPa. Relative humidity 30% to 95%, non condensing  **Compliance**  **Complian	Light field contrast IEC 60601-2-54:2009	>4:1 (35x35cm at 1m SID)
Accessory guides  One pair of rails for 2 accessories, maximum 177mm wide and 2mm thick  24V DC, 35 VA max  Weight  9.0 kg  Ambient temperature +10°C to +40°C. Atm. pressure 700-1060 hPa. Relative humidity 30% to 95%, non condensing  Compliance  Compliance  Compliance  Compliance  Compliance  Compliance	Leakage radiation IEC 60601-1-3:2008	≤0.5 mGy/hr (at 1m, 150kVp, 4mA)
Power consumption  24V DC, 35 VA max  9.0 kg  Ambient temperature +10°C to +40°C. Atm. pressure 700-1060 hPa. Relative humidity 30% to 95%, non condensing  Compliance  Compliance  Compliance  Compliance	Mounting distance (of mounting plane from focus)	80 ± 1mm
Weight 9.0 kg  Ambient temperature +10°C to +40°C. Atm. pressure 700-1060 hPa. Relative humidity 30% to 95%, non condensing  Compliance Compliance Compliance	Accessory guides	One pair of rails for 2 accessories, maximum 177mm wide and 2mm thick
Ambient temperature +10°C to +40°C. Atm. pressure 700-1060 hPa. Relative humidity 30% to 95%, non condensing  Compliance  Compliance  Compliance	Power consumption	24V DC, 35 VA max
Relative humidity 30% to 95%, non condensing  Compliance  Complian	Weight	9.0 kg
	Operating conditions	
	Compliance	

## 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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