Xcel® 255 & 455
Slit Lamps

Where performance
and value converge.



Reichert®
TECHNOLOGIES

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AMETEK®



Xcel® 255 Slit Lamp

- Compact design
- High efficiency multilayer optical coatings for enhanced light transmission
- Wide-field optics
- Halogen illumination
- 3 step magnification 10x, 16x, 25x
- Feather-touch XYZ joystick
- 12.5x magnification eyepieces
- Red free, cobalt blue, heat absorbing, neutral density filters



Xcel® 455 Slit Lamp

- Traditional tower illumination design
- High efficiency multilayer optical coatings for enhanced light transmission
- Wide-field optics
- 5 step magnification 6.5x, 10x, 16x, 25x, 40x
- 12.5x magnification eyepieces
- Slit inclination up to 20 degrees
- Red free, heat absorbing, cobalt blue, neutral density filters
- Halogen illumination
- Smooth base movement and slit elevation with XYZ joystick

Xcel® 255 Slit Lamp Specifications

Catalog Numbers

15120 Xcel 255 Slit Lamp	**15122** 1-Port Beam Splitter	**12588** 6V 20W Halogen Lamp
12597 CT210 Tonometer Mount	**12598** CT210 Tonometer	**12596** Tonometer Prism

Microscope

Microscope Type	Galilean
Magnification Change	3 step rotation
Eyepiece	12.5x
Magnification Ratio	10x, 16x, 25x
Fields of View	25, 15, 10 mm
PD Range	48.5 - 80 mm
Diopter Adjustment	±8 D
Working Distance	107.7 mm

Slit Lamp

Slit Illumination	6V 20W halogen
Slit Width	0 - 13.5mm
Slit Length	0 - 13.5 mm
Slit Apertures	0.6, 5.8, 9, 13.5 mm
Slit Rotation	0 – 180°
Slit Inclination	-5°, -10°, -15°, -20°
Filters	Red free, cobalt blue, heat absorbing
Illuminance Range	0 to >50000 lux

Base Movement Ranges

Longitudinal (In/Out)	90 mm
Lateral (Left/Right)	107 mm
Vertical (Up/Down)	30 mm

Chinrest

Fixation Lamp	White LED
Vertical Movement	80 mm

Power

Voltage	90 - 250 VAC
Power Input (max)	56 - 73 VA
Frequency	50/60 Hz
Fuses	Time-lag (1.6A, 250V), 5x20 mm

Dimensions/Weight

Height	50.2 cm (19.8 in)
Width	26.7 cm (10.5 in)
Depth	35.6 cm (14.0 in)
Table Dimensions	465 x 316 mm
Weight, Packed	23.64 kg (52 lbs.)

Xcel® 255 Slit Lamp

Reichert Xcel Slit Lamps utilize high quality optics, providing clarity and detail that will meet the needs of even the most discriminating operator. The feather-touch XYZ joysticks, convenient controls, and ergonomic design, combined with top quality materials and meticulous assembly, ensure years of comfortable, enjoyable use. The outstanding optical performance, features and quality make the Reichert Xcel series comparable to the world's elite slit lamps.





*The available **CT210** Contact Tonometer can be easily mounted on the Xcel 255.*

Xcel® 455 Slit Lamp

The Xcel 455's precision optics incorporate lenses with high efficiency multilayer optical coating for enhanced light transmission, resulting in bright, even illumination and outstanding image clarity. A large field of view with high resolution and depth of focus offers an excellent stereo binocular view. The five step magnification changer and filter options provide flexibility in viewing different structures of the eye. Eyepieces with 12.5x magnification and converging binoculars ensure comfortable viewing. Slit inclination up to 20° allows examination in the oblique sections. The base and slit elevation can be maneuvered smoothly and easily using the joystick control.





*The available **CT100** Contact Tonometer can be easily mounted on the Xcel 455.*

Xcel® 455 Slit Lamp Specifications

Catalog Numbers	
15140 Xcel 455 Slit Lamp	**15121** Halogen Lamp
12591 CT100 Tonometer	**12595** Tonometer Prism
Microscope	
Microscope Type	Galilean
Magnification Change	5 step drum rotation
Eyepiece	12.5x
Magnification Ratio	6.5x, 10x, 16x, 25x, 40x
Fields of View	37, 24, 15, 9, 6 mm
PD Range	49 – 78 mm
Diopter Adjustment	±8 D
Working Distance	107.7 mm
Slit Lamp	
Slit Illumination	6V 20W halogen
Slit Width	0 – 12 mm
Slit Length	1.5 – 12.5 mm
Slit Apertures	0.3, 1, 3, 5, 9, 12 mm
Slit Rotation	0 – 180°
Slit Inclination	-5°, -10°, -15°, -20°
Filters	Red free, heat absorbing, cobalt blue, neutral density
Illuminance Range	0 to >50000 lux
Base Movement Ranges	
Longitudinal (In/Out)	110 mm (4.3 in.)
Lateral (Left/Right)	110 mm (4.3 in.)
Vertical (Up/Down)	30 mm (1.2 in.)
Chinrest	
Fixation Lamp	White LED
Vertical Movement	70 mm (2.8 in.)
Power	
Voltage	100 – 240 VAC
Power Input (max)	56 – 73 VA
Frequency	50/60 Hz
Fuses	Time-lag (1.6A, 250V), 5x20 mm
Dimensions/Weight	
Height	66.0 cm (26.0 in.)
Width	45.7 cm (18.0 in.)
Depth	34.3 cm (13.5 in.)
Table Dimensions	46.5 x 32 cm (18.3 x 12.6 in.)
Weight, Unpacked	17.8 kg (39.3 lbs.)



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