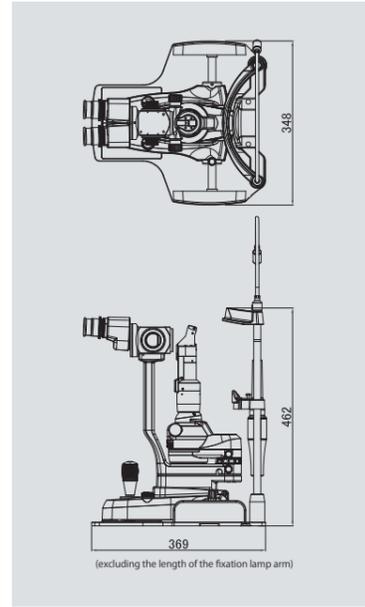




### Major Specifications

	Model	4ZL	2ZL
<b>Microscope</b>	Type	Galilean converging binocular stereomicroscope	
	Magnification change	Five-position rotating drum	Three-position rotating drum
	Eyepieces	16x wide-field, high-eyepoint	
	Total magnification	6.3x, 10x, 16x, 25x, 40x	10x, 16x, 25x
	Real field of view (diameter)	35.9mm, 23.3mm, 14mm, 8.8mm, 5mm	23.3mm, 14mm, 8.8mm
	Interpupillary adjustment	52 - 82mm	
	Diopter adjustment range	+/- 7 diopters	
<b>Base Unit</b>	Horizontal (coarse) movement	105mm	
	Horizontal (fine) movement	15mm	
	Vertical movement	30mm	
<b>Chinrest Unit</b>	Elevation stroke	95mm	
	Slit width	0-14mm continuously variable	
<b>Illumination Unit</b>	Aperture diaphragm (diameter)	φ14, φ8, φ5, φ3, φ1, φ0.3mm	
	Filters	Blue filter, Red free filter, Blue correction filter, Yellow filter	
	Light source	LED	
	Power supply	AC100V - 240V (+/- 10%)	
<b>Power Unit</b>	Power consumption	DC5V 2A	
	Fixation light source	Red LED	
<b>Background Illumination</b>	Built-in		Not equipped
	Weight	11.5kg	11kg

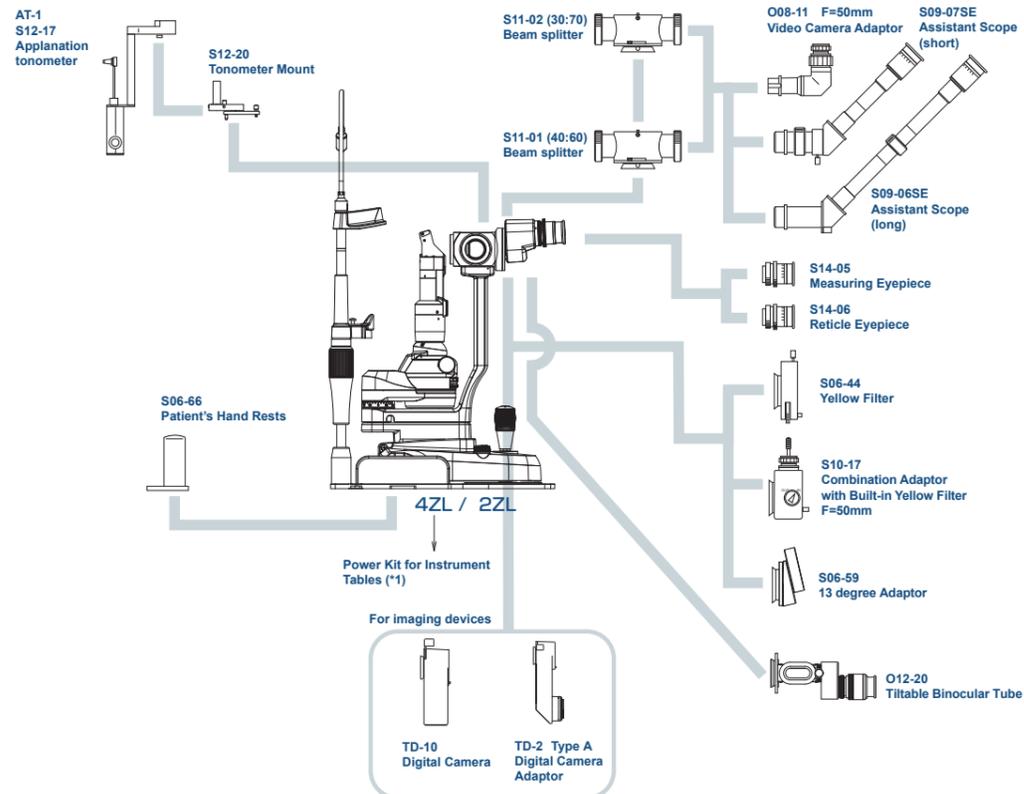
### Dimensions



# Slitlamp Microscope 4ZL/2ZL

Serving your vision

### Optional Components



\*1: For further information on power kits, contact our Sales Department.

● Design and specifications are subject to change as improvements are made to the product.





# Slitlamp Microscope 4ZL/2ZL



4ZL: High-performance high-grade slit lamp with a 5-step magnification changer, a powerful all-rounder offering total application flexibility

2ZL: Functional high-grade slit lamp with a 3-step magnification changer, an all-rounder ideally suited for routine screening applications

## Design

### High-grade Slit Lamps without a cable

- 4ZL: High-performance with a 5-step magnification changer
- 2ZL: Excellent performance with a 3-step magnification changer
- Innovative Design: No cables are exposed. Even the power supply cable is concealed.
- Even cables for connecting an imaging system can be concealed.
- New product color

## LED

### New LED Optimized Slit Lamp

- One of the best advantages of LED illumination is that affected anatomy and structures of the eye can now be more clearly and visibly seen because the peak wavelength of LED light appears in the region which is more sensitive to the human eye.
- We haven't simply replaced the halogen light source with an LED type, 4ZL / 2ZL have been designed and engineered from scratch to accommodate the new superior LED lamp.
- LED optimized 4ZL / 2ZL provide brighter and sharper light.

### Use of Uniform LED Illumination

- The LED slit lamps with a color temperature of 3500 K provide brighter and sharper light than halogen.
- A 1-element high-luminance LED is used for 4ZL / 2ZL providing a uniform and even light compared to multiple element LED's.

### Reduction of the Characteristic Blue Light of LED

- The projected light is soft and easy on patients' eyes by reducing the peak of the characteristic blue band spectrum of LED.

## Optical Design

### Converging Binoculars

- Binocular tubes with a 6-degree convergence provide easy binocular fusion, ensuring stress-free observation.

## Usability and Ergonomics Tailored for You

### Improvement of Usability

- The size, placement and other features of various controls are reconsidered based on ergonomics in order to enhance usability

### Built-in Background Illumination (4ZL only)

- For use with an imaging system, the background illumination is now equipped in 4ZL as standard.
- The color balance of an image taken through 4ZL is not lost because the same LED is used for both main light source and background illumination.
- Intensity of the background illumination is adjustable by hand using the lower left hand side control.

### Reduction of Patient's Uneasiness

- When 4ZL / 2ZL are switched on, a circular blue LED lights up around the lower part of the slit unit, which does not disturb the examination. The blue LED light is associated with mental calmness, reducing patient's uneasiness.
- Because the circular blue LED indicates the power is on, the users can examine with 4ZL / 2ZL at ease.

### Various Options

- Patient's hand rests and various other options for 4ZL/2ZL are available according to users' requirements and application.

