



*SLITLAMP MICROSCOPE*

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*MODEL 300XL*

*NEW*



*Aiming at new levels in quality*



Aiming at highest quality  
from anterior

**Here we**



ophthalmic care,  
segment to fundus...

**present *300XL***

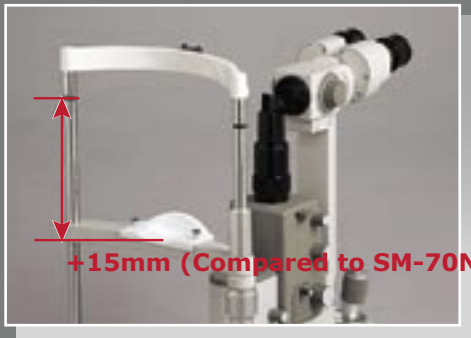


We, at **TAKAGI**, created the slitlamp microscope 300XL with our comprehensive technology and years of experience. Being equipped with both well-balanced optical performance and ease of use, 300XL promises a more comfortable examination and treatment environment. Now, 300XL marks the beginning of a new era in ophthalmic care.

## Lower Chinrest Position

### **Key Point**

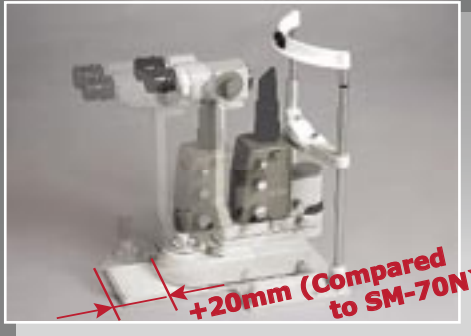
With the entire 70mm range of the chinrest elevation being lowered by 15mm, the 300XL can accommodate more diverse examinees than existing models.



## Longitudinal Travel of the Base Unit

### **Key Point**

The longitudinal movement range of the base unit is longer than conventional models (such as SM-70N) by 20mm. This will secure enough space between the patient and the microscope, allowing easier focusing and use of an indirect lens for fundus examination.



## Headrest/Finger Rest

### **Key Point**

The 300XL's headrest serves not only as a patient's headrest but also as a finger rest for the examiner holding an indirect lens upon fundus examination. The finger rest feature is designed such that the examiner can hold the indirect lens steady. It also reduces arm fatigue from lengthy fundus examination.



## Focusing Rod and Prism Tower with Tilting

### **Key Point**

### **Mechanism; Both Standard Features**

Tilting of the slit beam is crucial when viewing temporal or nasal peripheral fundus. 300XL offers a prism tower with tilting mechanism as a standard feature.

Exact focusing is essential for examination and treatment. To achieve exact focusing, precise diopter adjustment is required. The 300XL comes with a focusing rod as standard equipment. When the focusing rod is not in use, the lid can be closed to prevent eye drops or dust from getting inside the slitlamp.



## Use with Laser System

300XL has been chosen by a leading ophthalmic laser manufacturer to be used as the slitlamp for their retinal photocoagulation laser system, a system that demands high optical performance. This is recognition of Takagi's high level of technical capabilities and the 300XL's exceptional performance.

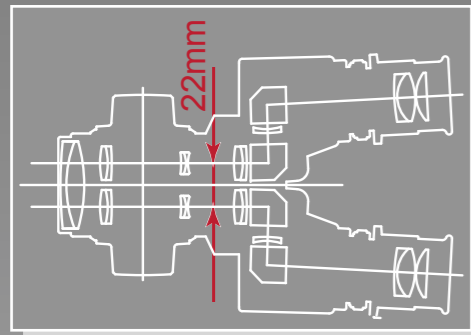


# Moving towards

# a New Standard

# in Ophthalmic Care

300XL has been created by further upgrading the critically acclaimed N-series to become the new standard for slitlamps used in ophthalmic examination and treatment. Here is a slitlamp microscope with all the features that ophthalmologists have been wishing for.



## 22mm Inter-optical Path Distance

### Key Point

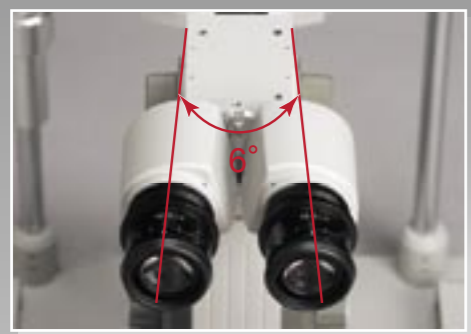
As a general rule, the longer the distance between the two optical paths, the better the stereoscopic view, but the narrower the binocular field of view in fundus examination. In reverse, the shorter the distance between the optical paths, the poorer the stereoscopic view, but the wider the binocular field of view in fundus examination.

With this in mind, we have achieved optics suitable for fundus examination by choosing the optimal 22mm as the inter-optical path distance.

## Base-lock Mechanism

### Key Point

The lock ring at the foot of the joystick easily locks and releases the longitudinal and lateral movement of the base unit.



## Converging Binocular Tubes

### Key Point

300XL's binocular tubes with a 6-degree convergence provide easy binocular fusion, ensuring stress-free observation.

Advanced multi-coating is applied to all lenses used in the microscope for excellent optical performance; bright images free from flare and ghost are obtained, improving the quality of examination and treatment.

## Joystick Handle and Pushbutton

### Key Point

New joystick design uses silver metallic and molded resin finish. The new ergonomic mechanism used in the pushbutton has improved ease of operation.



## New Helicoid Mechanism

### Key Point

As the diopter adjustment rings do not rotate with the eye caps, the selected diopters will not be accidentally changed during use.

In addition, the 12.5x high-eyepoint wide-field eyepieces enable observation over a wider field.

## Illumination Unit - Designed with Ease of Use in Mind

### Key Point

The filter dial, slit-length adjusting knob, slit rotation knob, and slit-width adjusting knob on the illumination unit are arranged for ease of use.

The slit-width adjusting knob can be rotated endlessly, and allows the slit width to be varied continuously from fully closed to fully open.

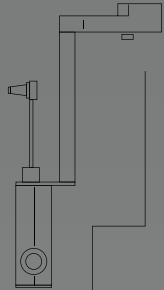


# 300XL ~ optional components ~

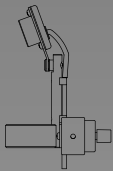
S17-01  
Prism Tower



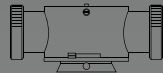
AT-1  
Applanation Tonometer



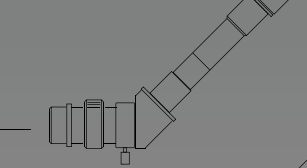
BG-03  
Background  
Illumination  
System



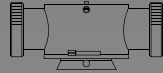
S11-02  
Beam Splitter  
(30:70)



O08-11  
Video Camera Adaptor  
F=50mm



S11-01  
Beam Splitter  
(40:60)



S09-07SE  
Assistant Scope  
(short)

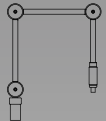


S09-06SE  
Assistant Scope  
(long)

S12-16  
Tonometer Mount



S06-49  
Fixation Light  
Unit



S14-11  
Reticle Eyepiece



S14-12  
Measuring Eyepiece



S06-44  
Yellow Filter



S10-17 XL  
Combination Adaptor  
with Built-in Yellow Filter  
F=50mm



For imaging devices

S10-18  
Video Beam Splitter  
F=25mm



TD-1 XL  
Digital Camera



TD-2 XL  
Digital Camera  
Adaptor



Power Kit for Instrument  
Tables (\*1)

Power Kit specifically designed for  
use with non-Takagi tables that can  
supply AC12V to the slitlamp (\*1)

# 300XL

## Major Specifications

### Microscope

Type :	Galilean converging binocular stereomicroscope
Magnification changer :	Five-position rotating drum
Eyepieces :	12.5x wide-field, high-eyepoint
Total magnification :	5x, 8x, 12.5x, 20x, 31x
Real field of view (diameter) :	45mm, 28mm, 18mm, 11mm, 7mm
Interpupillary adjustment :	52 - 85mm
Diopter adjustment range :	+/- 5 diopters

### Base Unit

Longitudinal (coarse) movement :	110mm
Lateral (coarse) movement :	110mm
Horizontal (fine) movement :	15mm
Vertical movement :	30mm

### Chinrest Unit

Elevation stroke :	70mm
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### Illumination Unit

Slit width :	0-10mm continuously variable (at 10mm, slit becomes a circle)
Aperture diaphragm (diameter) :	10mm, 7mm, 5mm, 3mm, 1mm, 0.3mm
Filters :	HA (heat-absorbing), G (red-free), B (excitation)
Light source :	12V 30W halogen bulb

### Power Unit

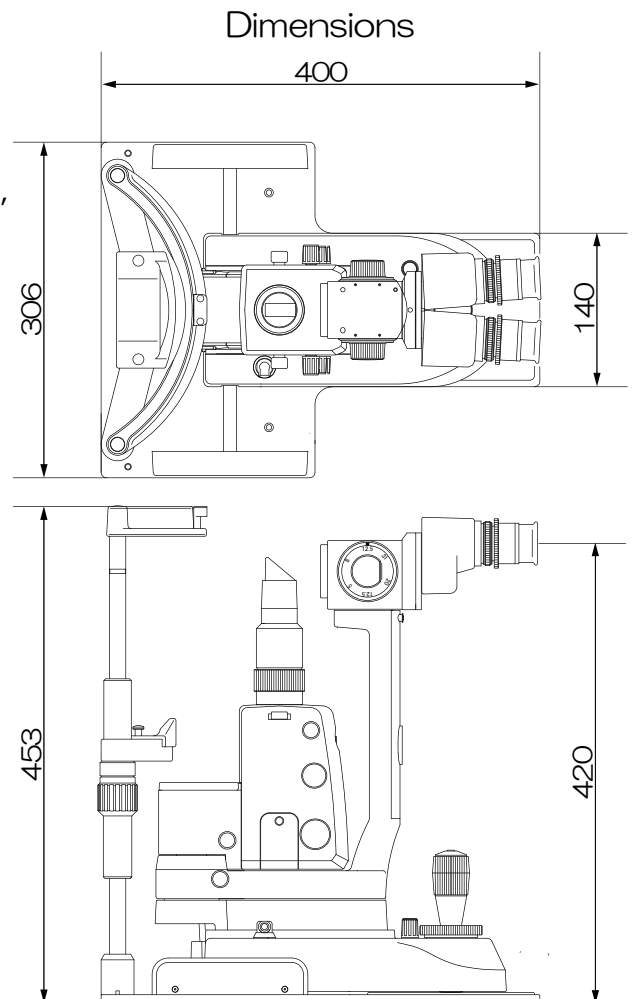
Input voltage :	AC100V - 240V (+/- 10%)
Power consumption :	98VA (+/- 10% max.)

### Fixation Light Unit (Optional Accessory)

Fixation light source :	Red LED
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### Weight

Weight :	14kg
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● Design and specifications are subject to change as improvements are made to the product.

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