TAKAGI

Slitlamp Microscope
SM-70N

Aiming at new levels in quality

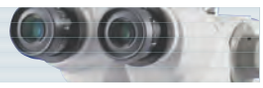
Slitlamp Microscope

SM-70N

The basis of ophthalmic care

★ Equipped with both well-balanced optical performance and ease of use

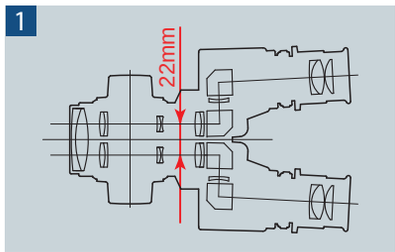
★ More combination with various imaging systems



1 22mm Inter-optical Path Distance

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.



2 Converging Binocular Tubes

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.

3 Helicoid Mechanism

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 16x high-eyepoint wide-field eyepieces enable observation over a wider field.

4 Specially-coated Mirror and Diffuser

The reflecting mirror has been given a special coating, effectively reducing harmful infrared and ultraviolet rays to protect the eye being observed against phototoxicity while providing an exceptionally natural view in the visible light range.
When photographing the anterior segment of the eye, the diffuser, a standard feature, can be used to extensively illuminate the region being observed.

5 Integrated Control

The joystick for XYZ movement, its top button for the light booster function (which also serves as a trigger button for capturing images when connected to an imaging device), and the rheostat adjacent to the joystick for light intensity adjustment can all be controlled with one hand. This ensures a smooth and swift examination.
Furthermore, the joystick mechanism provides outstanding control from coarse to fine movement of the slitlamp base.

6 Slitlamp with Integrated Base

By integrating it with the base, the sturdiness of the chin rest assembly has improved dramatically. Now that the base is integrated, there is no need to be selective with the shape of fittings for the chin rest assembly or its installation method. The slitlamp can now be set up very easily on any type of instrument table.

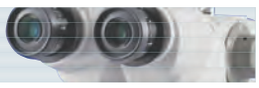
7 Headrest/Finger Rest

The 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.

8 Right Eye / Left Eye Recognition Sensor and Signal Output Function

The right eye/left eye recognition sensor is now built-in so that the slitlamp works well with an image filing system. Right eye/left eye recognition signal is output once the slitlamp is aligned to the eye to be tested.

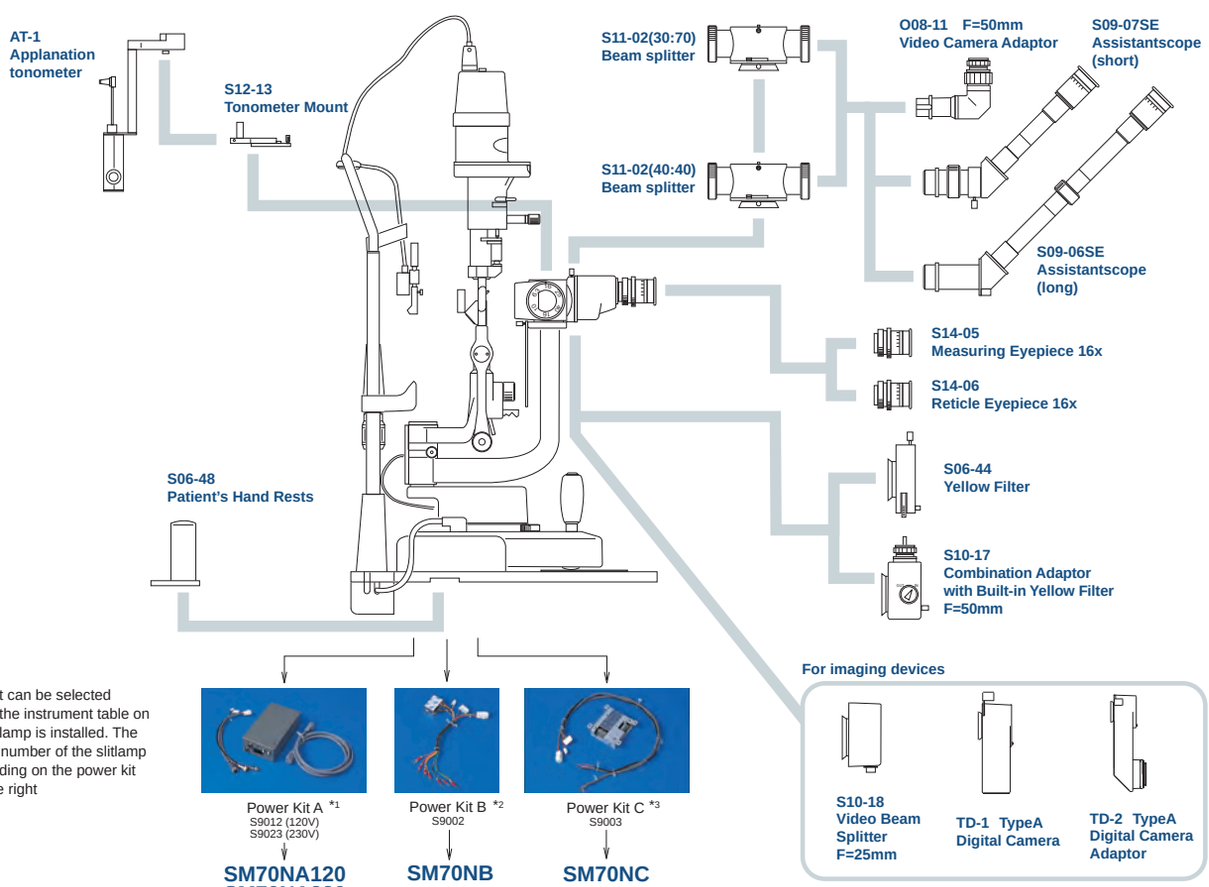
The cable-end connector of the connecting cable (optional) varies according to the image filing system used. Contact our Sales Department for details.



Specifications

Microscope	Type	Galilean converging binocular stereomicroscope
	Magnification changer	Five position rotating drum
	Eyepieces	16x wide-field, high-eyepoint
	Total magnifications	6.3x, 10x, 16x, 25x, 40x
	Real fields of view	φ35.9, φ23.3, φ14, φ8.8, φ5.5mm
	Interpupillary adjustment	53mm ～ 84mm
	Diopter adjustment range	+/-7diopters
Cross-Slide Base	Longitudinal (coarse) movement	90mm
	Lateral (coarse) movement	110mm
	Horizontal (fine) movement	15mm
	Vertical movement	+/-15mm
Chinrest Unit	Elevation stroke	70mm
	Fixation light source	Red LED
Illumination Unit	Slit width	0-10mm continuously variable (at 10mm, slit becomes a circle)
	Slit length	1-10mm continuously variable
	Aperture diaphragms	φ10, φ5, φ3, φ2, φ1, φ0.2mm
	Filters	HA (heat-absorbing), G (red-free), B (excitation), UV (Ultraviolet radiation cut)
	Light source	12V 30W halogen bulb
Power Unit	Input voltage	AC100V-230V
	Maximum power consumption	64VA
Dimensions & Weight	Base dimensions	359mm(W) x 328mm(D)
	Weight	13.3kg

Optional Components



The power kit can be selected according to the instrument table on which the slitlamp is installed. The identification number of the slitlamp varies depending on the power kit selected. See right

*1 Power kit for use with tabletop-type instrument tables
*2 Power kit for exclusive use with TAKAGI's Ophthalmic Workstations and Autodesks instrument tables
*3 Power kit for use with non-TAKAGI tables that can supply AC12V to the slitlamp

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

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