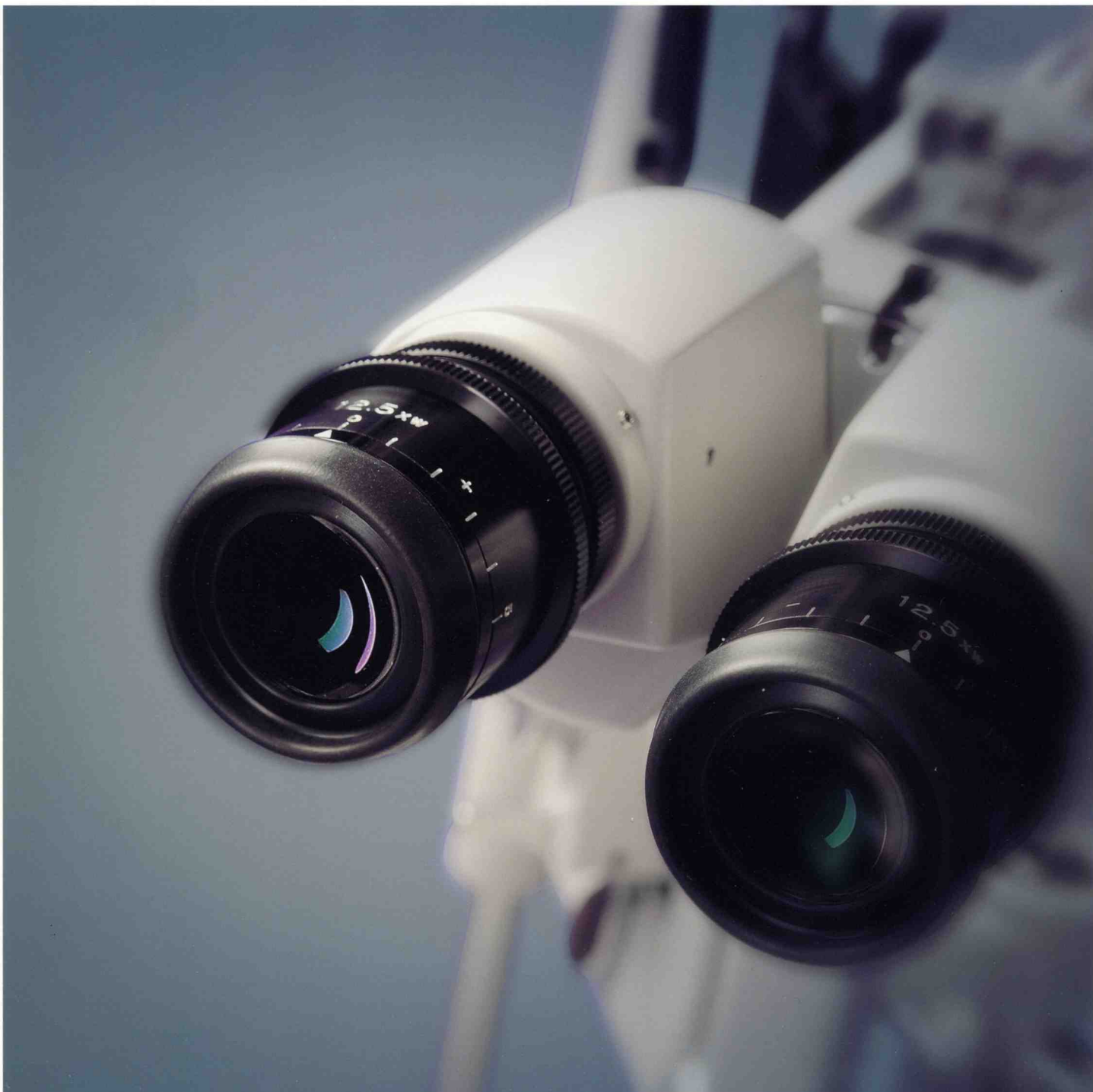




Slitlamp Microscope SM-90N

Aiming at new levels in quality



Slitlamp Microscope SM-90N

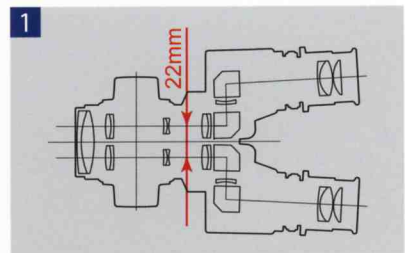
★ Incorporating motorized zoom system unique in its class



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 12.5x high-eyepoint wide-field eyepieces enable observation over a wider field.

4 Motorized zoom system

The TAKAGI slitlamp technology is combined with an electric zoom mechanism unique in its class. The zoom mechanism allows magnification to be changed over a range of 5.5x-32x to provide optimum magnification in clinical applications.



5 Magnification display using one-touch flip-up mirror

The current magnification is displayed using the one-touch flip-up mirror, thus allowing photography at the fixed magnification when taking multiple images. Interior illumination of the display unit ensure that the magnification display is visible even in dark surrounding.

Fitting the combination adapter (S10-17) ensures that the magnification is displayed even when using an imaging system.



6 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.

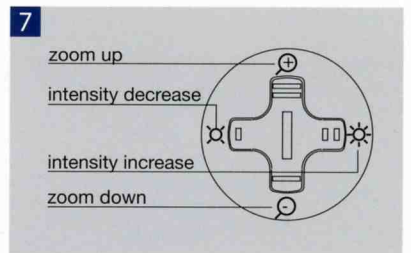
When photographing the anterior segment of the eye, the diffuser, a standard feature, can be used to extensively illuminate the region being observed.



7 Centralized control system

In addition to the ability to move the slitlamp, and 3D movement in the X,Y, and Z directions by joystick the provision of a trigger button (also functions as the light boost button) at the top, and connection to video equipment allows the examiner to acquire excellent images while looking through the slitlamp. The newly developed X-Y control button fitted for the first time to the slitlamp allows the zoom up-down and the intensity increase and decrease to be controlled with one hand. The X-Y control button may be rotated 90 degrees, thus allowing the examiner to change the direction as necessary.

* Light boost and trigger do not work simultaneously



8 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.



9 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.



10 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.

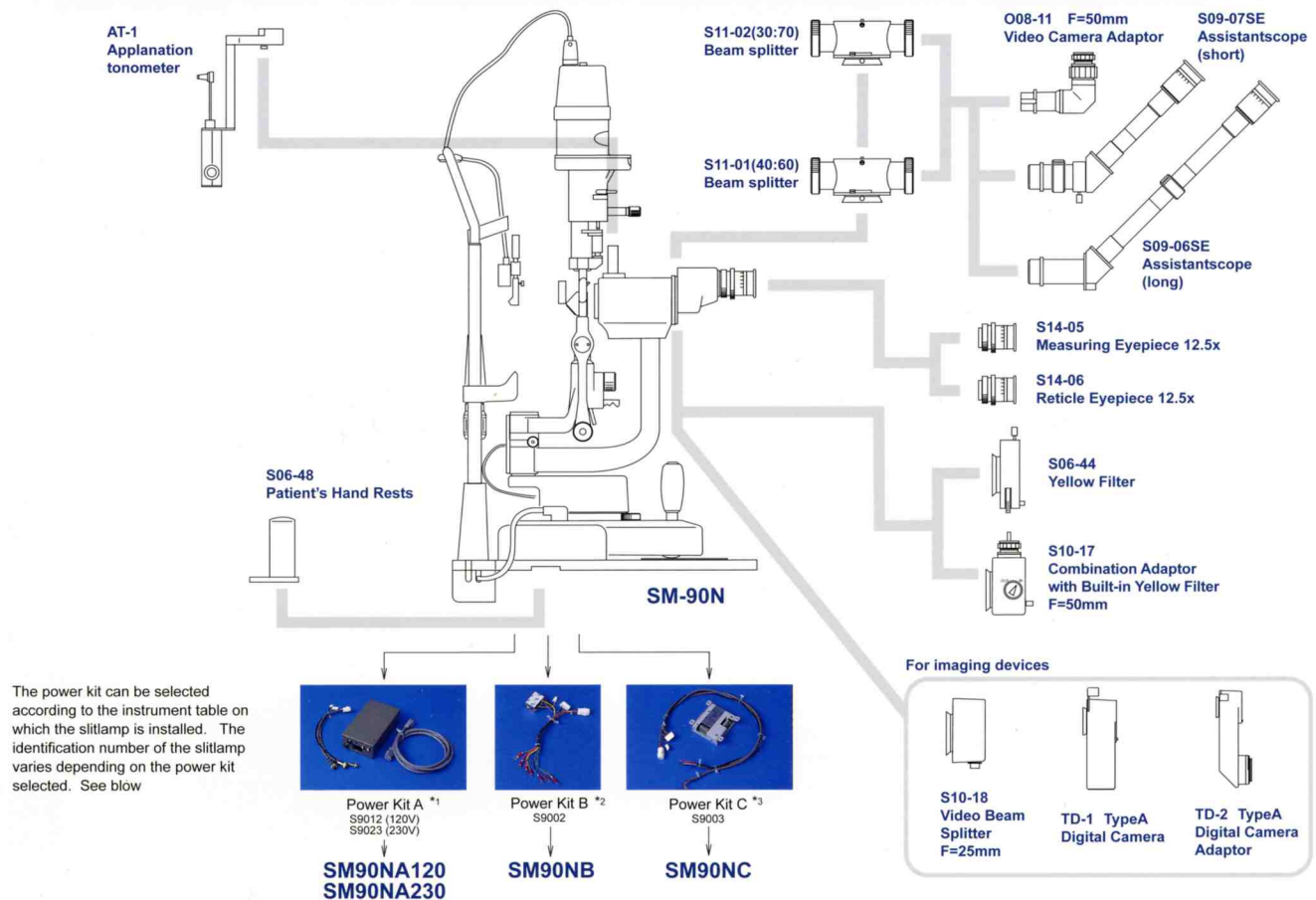
The cable-end connector of the connecting cable (optional) varies according to the image filing system used. Contact our Sales Department for details.



Specifications

Microscope	Type	Galilean converging binocular stereomicroscope
	Magnification changer	motorized zoom
	Eyepieces	12.5x wide-field, high-eyepoint
	Total magnifications	5.5x - 32x
	Real field of view	φ 40.9mm - φ 6.8mm
	Interpupillary adjustment	53mm-84mm
	Diopter adjustment range	+/-5diopters
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	φ 10, φ 5, φ 3, φ 2, φ 1, φ 0.2mm
	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)x328mm(D)
	Weight	13.5kg

Optional Components



*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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