

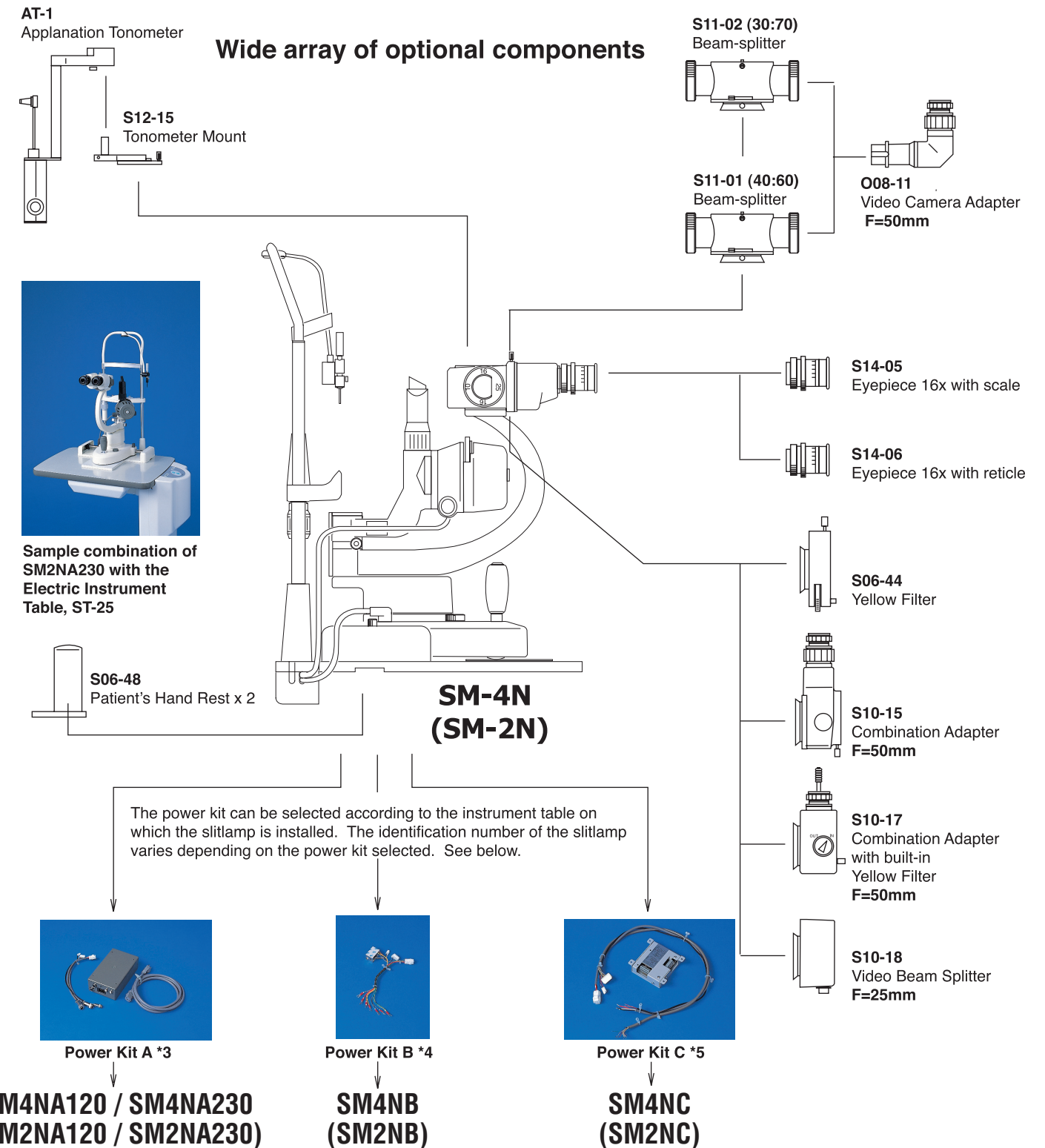


# SLITLAMP MICROSCOPE

## MODELS SM-4N & SM-2N



# SLITLAMP MICROSCOPE MODELS SM-4N & SM-2N



\*3 Power kit for use with tabletop-type instrument tables  
 \*4 Power kit for exclusive use with Takagi's Ophthalmic Workstations and Autodesks  
 \*5 Power kit for use with non-Takagi tables that can supply AC12V to the slitlamp

The N-series also offers "free-choice" types where slitlamp components can be selected according to the type and shape of the instrument table used. For details on combinations, contact our Sales Department.

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

**Aiming at new levels in quality**

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Our quality system is certified for ISO 13485.

# SM-4N and SM-2N, enhanced models with the acclaimed 14mm diameter illumination field of the SM-4 and SM-2

## Here are the features that make the TAKAGI N-Series Slitlamps different

### Still featuring the highly-praised optics

#### Converging Binocular Tubes



The binocular tubes feature a 6-degree convergence for easy fusion, ensuring stress-free observation. Advanced multi-coating is applied to all lenses used in the microscope. Because of the high optical performance, bright images free from flare and ghost can be obtained, improving the quality of medical examinations and treatment.

#### Eyepieces with Helicoid Mechanism for Diopter Adjustment

The 16x high-eyepoint eyepieces with an expanded field of view enable observation over a wider area. With the diopter adjustment system that employs a helicoid mechanism, the diopter can be adjusted without rotating the lenses or the eye caps. This feature has been well received as it prevents the adjusted diopter from accidentally being changed during use as the eye caps will not rotate.

#### Magnification Changer



SM-4N



SM-2N

With the 5-step drum magnification changer (3-step for the SM-2N) that offers a wide range, from low to high, the optimal magnification is obtainable in clinical use. Also with the smoothly-rotating knob, this magnification mechanism provides a stress-free environment.

#### 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 SM-4N and SM-2N have an updated joystick mechanism, providing outstanding control from coarse to fine movement of the slitlamp base.

### Key Specifications

#### MICROSCOPE

Type	Galilean-type converging binocular microscope
Magnification changer	Five-position (three-position for SM-2N) rotating drum
Eyepieces	16x (high eyepoint, wide field)
Total magnifications	6.3x, 10x, 16x, 25x, 40x (SM-2N does not support 40x, 6.3x)
Real field of view	35mm, 23mm, 14mm, 8.7mm, 5.6mm diameters (SM-2N does not support 5.6mm, 35mm)
Interpupillary adjustment	52mm – 82mm
Diopter adjustment range	±7D

#### CROSS-SLIDE BASE

Longitudinal (coarse) movement	90mm
Lateral (coarse) movement	110mm
Horizontal (fine) movement	15mm
Vertical movement	15mm

#### CHIN REST

Vertical movement	70mm
Fixation light	LED (red)

### Further enhanced with new functions added

#### Integrated Chin Rest and Base - Slitlamp Packed Preassembled

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.



#### New Form Headrest

The new form headrest functions not only as a headrest for the examinee but also as a support for the examiner holding an indirect lens upon fundus examination, reducing the fatigue in the arm caused by long hours of examination.



#### 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.

#### Patient's Hand Rests (Optional)

Patient's hand rests have been updated in the SM-4N and SM-2N. The angle of the hand rests can be adjusted in five steps by changing the positions of the mounting screws. The grips are designed in a way that the patient can easily hold onto them and steadily maintain the "lean-forward" position.



#### Navigation LED's

The LED's illuminate to indicate the approximate position to assist focusing on the eye to be tested. By aligning the marker located on the base of the slitlamp to the position of the relevant LED, the microscope can easily be focused on the right or left eye.

\* The focal length between the microscope and the eye to be tested varies from individual to individual.



#### SLITLAMP

Slit width	0 – 14mm, continuously variable (at 14mm, slit becomes a circle)
Slit length	1 – 14mm, continuously variable
Aperture diaphragms	14mm, 8mm, 5mm, 3mm, 0.3mm diameters
Filters	Heat absorbing, red-free, & cobalt blue
Lamp	12V/30W halogen bulb

#### POWER

Input voltage	AC100V, 120V, 230V
Maximum power consumption	40VA

#### DIMENSIONS & WEIGHT

Base dimensions	359mm (W) x 328.5mm (D)
Weight	11.6kg