



Ophthalmic YAG Laser System

YC-1800

US EDITION



THE ART OF EYE CARE

Ophthalmic YAG Laser System YC-1800

Portable & User-Friendly Design

■ Improved Operability

The **“S-switch”** on the joystick provides easy changes to treatment settings while maintaining alignment on the region being treated. The convenience of not looking away from the oculars during treatment and ease of use allow surgeons an increased level of comfort during treatment.



Unique Joystick **“S-switch”**

■ One-Touch Lock

The YC-1800 smoothly slides back and forth and side-to-side in an arc. A one-touch lock enables locking at any position improving the stability of treatment and safety.



■ Compact & Slim Design

The YC-1800 is a compact and lightweight unit allowing easy portability from center to center or room to room. The slim design allows greater room for arm support during treatment.

■ Versatile Combo Lasers

The YC-1800 can be easily connected to NIDEK's Green Laser Photocoagulator (GYC-500), allowing treatment of a wider range of patients and indications.

Space requirements are minimized, and the combination adapter (optional) includes a split mirror illumination tower.



The YC-GYC changeover lever



Reliability and Safety

Reliable Laser Output

The YC-1800 employs **“D-pulse”**, the advanced technology to control the pulse number under the CPU, providing stable laser output without being affected by environmental conditions and change over time.

Practical Operation

A high-speed firing at repetition rate of 3 Hz is very practical for patients with considerable eye movement during treatment. The speed and efficiency of the YC-1800 allows greater patient and surgeon comfort. Additionally the YC-1800 is versatile enough to treat a variety of diseases.

Flexible Energy Settings

Energy can be set between 0.3 mJ to 10 mJ in continuous increments of 0.1 mJ allowing precise treatment of tissue.

Wide Range of Focus Shift

The offset can be adjusted between $\pm 500 \mu\text{m}$ (25 μm steps) based on the clinical need. Offsets can be adjusted for PMMA, silicone or acrylic lenses. The offset can even be adjusted on the same IOL to compensate for parallax in the periphery. This utility eliminates manual defocus, permits a clear field of view, and reduces lens pitting.

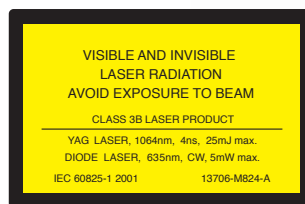
Safer Rotatable Aiming Beam

The dual 635 nm aiming beam offers superior targeting, which in turn enhances the speed and ease of surgery. The 635 nm beam is also safer for human eyes because it achieves the same crisp and sharp intensity of 650 nm or 670 nm beam with half the power output. The dual aiming beam can be rotated incrementally up to 360° permitting efficient and precise treatment.



YC-1800 Specifications

Treatment laser	
Type	Nd : YAG
Wavelength	1,064 nm
Mode structure	Fundamental
Pulse duration	4 nsec
Mode of operation	Q-switched
Pulse repetition rate	3 Hz (single) / 1.5 Hz (burst)
Output energy	0.3 to 10.0 mJ / pulse (continuously variable)
Burst mode	2 or 3 pulse / trigger
Spot size	8 µm
Cone angle	16°
Focus shift	0 to 500 µm (continuously variable, toward both anterior chamber and posterior chamber)
Aiming laser	
Type	Diode laser
Wavelength	635 nm
Output power	OFF, 0.5 to 25 µW
Cone angle	16°
Aiming method	Dual beam method
Rotation of beam	360°
Slit lamp	
Objective lens	f = 130 mm
Eye piece	12.5 x
Magnification (field of view)	32 x (6.2 mm), 20 x (10 mm), 12.5 x (16 mm), 8 x (25 mm), 5 x (40 mm)
Power supply	Single-phase, AC 100 to 240 V, 50 / 60 Hz, 100 VA
Dimensions / Mass	324 (W) x 407 (D) x 528.5 (H) mm / 16 kg 12.8 (W) x 16.0 (D) x 20.8 (H) " / 35 lbs.



Product / Model name: Ophthalmic YAG Laser System YC-1800

Caution: U.S. Federal Law restricts this device to sale, distribution, and use by or on the order of a physician or other licensed eye care practitioner.

Specifications may vary depending on circumstances in each country.

Specifications and design are subject to change without notice.



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