



Ophthalmic Yag Laser System

# YC-1800



THE ART OF EYE CARE

# Ophthalmic Yag Laser System YC-1800

## Portable & User-Friendly Design

### ■ Improved Operability

The **“Smart Switch”** located on the joystick provides high operability, allowing doctors to change parameters (Energy up, Energy down and Ready / Standby\*) while holding the joystick.

Permits faster and easier operation, and eliminates need to look away from oculars to make parameter adjustments.

\* Factory setting.

The user has three choices among energy up, energy down, ready / standby, aiming up, aiming down, burst and reset.



Unique Joystick **“Smart Switch”**

### ■ One-Touch Lock

The YC-1800 can smoothly slide back and forth and around, and the unit can be easily fixed and released at anywhere you like with the one-touch lock, offering high operability with improved safety.



### ■ Compact & Slim Design

The small and light body can be easily transported. Compact and slim design also allows greater flexibility in locating your arm rest.

### ■ Versatile Combo Lasers

The YC-1800 can be easily connected to NIDEK's Green Laser Photocoagulator (GYC-1000), allowing treatment of a wider range of patients and indications.

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



The YC-GYC changeover lever



## Reliability and Safety

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### ■ Reliable Laser Output

The YC-1800 employs the new technology to control the pulse number under the CPU **"D-Pulse"**, providing higher stability against environmental conditions and change over time.

### ■ Fast Operation

High-speed 3 Hz firing rate offers very practical operation when encountering a moving eye or other patient difficulties. The YC-1800 can treat a wide variety of diseases, and its speed and efficiency allows comfortable operation.

### ■ Great Number of Energy Settings

The YC-1800 offers 0.3 to 10 mJ, continuously adjustable in increments of 0.1 mJ, allowing the precise tissue effect.

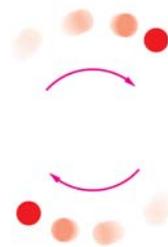
### ■ Super Adjustable Nd:YAG Offset

The YC-1800 can adjust the offset between  $\pm 500$  microns (25 micron steps) to meet the varied clinical needs.

A different offset can be used for PMMA, silicone or acrylic lenses, and the offset can even be adjusted on the same IOL to compensate for a parallax effect in the periphery. This eliminates the need to manually defocus, permits a clear field of view, and reduces lens pitting.

### ■ Safer Rotatable Aiming Beam

The dual 635 nm aiming beam offers superior visual sensitivity, which in turn enhances the speed and ease of operation. The 635 nm beam is also safer to human eyes since it achieves the same crisp and sharp intensity of 650 nm or 670 nm beam with half the power output. The YC-1800 has the ability to rotate the dual aiming beams 360° permitting work anywhere in the periphery without clipping the iris.

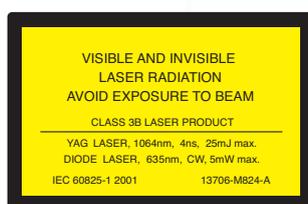


360-degree manual rotation of the aiming beam for precise operation.



## YC-1800 Specifications

<b>Treatment laser</b>	
Type	Nd : YAG
Wavelength	1064 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)
<b>Aiming laser</b>	
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°
<b>Slit lamp</b>	
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, 100 to 240 Vac, 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.



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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