

YC-1800

OPHTHALMIC YAG LASER SYSTEM



Eye & Health Care

Portable & User-Friendly Design

Improved Operability

The **“Smart Switch”** (patent pending) 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 from 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 NIDEK YC-1800 is the smallest and lightest ophthalmic photodisruptor available and 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

Reliable Laser Output

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

Fast Operation

The 3Hz firing rate is the fastest available, which can be very practical 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 0.3-10mJ, continuously adjustable in increments of 0.1mJ, allowing the most precise tissue effect.

Super Adjustable Nd:YAG Offset

The YC-1800 has the exclusive ability to adjust the offset ± 500 microns (25 micron steps) to best meet your 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 minimizes lens pitting.

Safer Rotating Aiming Beam

The dual 635nm aiming beam offers superior visual sensitivity, which in turn enhances the speed and ease of operation. The 635nm beam is also safer to human eyes since it achieves the same crisp and sharp intensity of 650nm or 670nm 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

Treatment Laser	
Type	Nd:YAG
Wavelength	1064nm
Mode Structure	Fundamental
Pulse Duration	4 nsec
Mode of Operation	Q-switched
Pulse Repetition Rate	3Hz (single) / 1.5Hz (burst)
Output Energy	0.3-10.0mJ/pulse (Continuously variable)
Burst Mode	2 or 3 pulse/trigger
Spot Size	8µm
Cone Angle	16°
Focal Shift	0-500µm (Continuously variable, toward both anterior chamber and posterior chamber)
Aiming Laser	
Type	Diode laser
Wavelength	635nm
Output Power	OFF, 0.5-25µW
Cone Angle	16°
Aiming Method	Dual beam method
Rotation of Beam	360°
Slit Lamp	
Objective Lens	f=130mm
Eye Piece	12.5x
Magnification (field of view)	32x(6.2mm), 20x(10mm), 12.5x(16mm), 8x(25mm), 5x(40mm)
Power Supply	Single-phase, 100-240Vac, 50/60Hz, 100VA
Dimension / Weight	324(W) x 407(D) x 528.5(H) mm / 16kg 12.8(W) x 16(D) x 20.8 (H) " / 35.3lbs.
Standard Accessories	Head belt, Arm rest, Key swtich, Slit lamp bulb, Chin rest pads
Optional Accessories	Motorized optical table, Foot switch, Safety goggles



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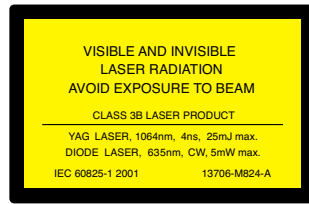
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VISIONARY PERFORMANCE

Specifications and design are subject to change without notice for improvement.



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