

opto

Science in Sight



FastPulse

New Opto Retina & Glaucoma Laser

A NEW ERA IN THE 810 nm LASER

THE EVOLUTION OF THE INFRARED LASER

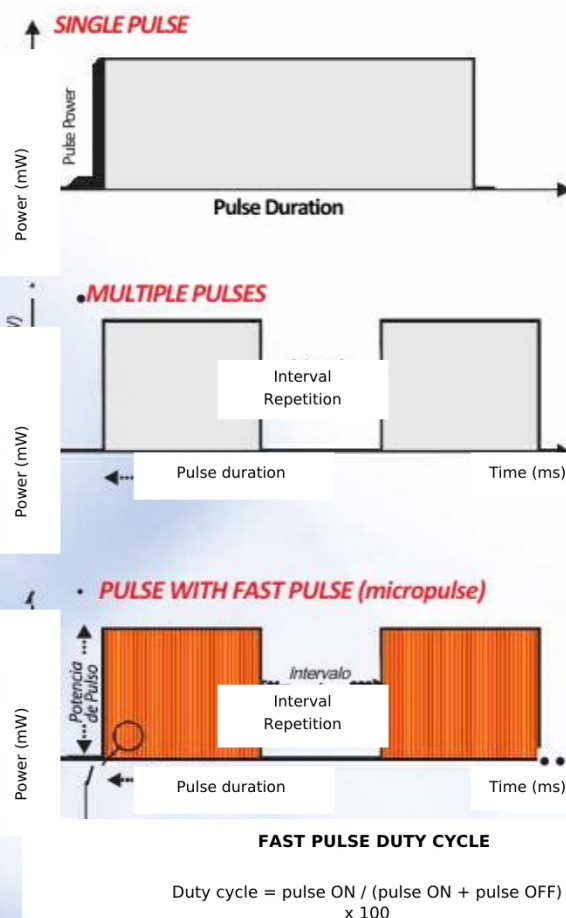
Fast Pulse

This new OPTO Retina & Glaucoma Laser combines simple, intuitive controls with a touchscreen interface designed for efficient operation. Preprogrammed treatments and the ability to receive updated programs support evolving clinical protocols. Its compact, modern design supports use in the clinic or surgical setting and convenient transport when required.



OPTO Fast Pulse technology generates microsecond pulses intended for subthreshold treatment protocols. The system can deliver single or continuous pulses, multiple pulses (pulse trains), or Fast Pulse micropulsed output, depending on the selected program and accessory.

Treatment parameters and indications must follow the current OPTO instructions for use and applicable local authorization.



Single or continuous pulse

The clinician selects pulse power and duration. While the foot pedal is depressed, the system delivers the programmed exposure according to the selected mode. This mode may be used for protocols such as transpupillary thermotherapy (TTT), when indicated.

Multiple pulses (pulse train)

The clinician selects pulse power, pulse duration, and the repetition interval between pulses. Depressing the foot pedal initiates the programmed pulse train; releasing it stops delivery.

Fast Pulse (micropulse)

In Fast Pulse mode, laser output cycles on and off in microseconds. This controlled delivery is intended to support subthreshold protocols by limiting thermal accumulation between pulse segments. The clinician selects pulse power, pulse duration, and duty cycle; a repetition interval may also be selected to create a micropulsed pulse train.

Clinical use, settings, and treatment endpoints must follow the current OPTO instructions for use.

A MULTI-PURPOSE LASER



A laser for multiple applications

The OPTO Retina & Glaucoma Laser is designed for a broad range of manufacturer-listed retinal and glaucoma applications, including:

- Retinal detachment
- Peripheral retinal tears
- Peripheral retinal degeneration
- Retinopathy of prematurity (ROP)
- Subretinal neovascularization
- Central retinal vein occlusion (CRVO)
- Branch retinal vein occlusion (BRVO)
- Central serous retinopathy
- Proliferative diabetic retinopathy (PDR)
- Nonproliferative diabetic retinopathy
- Diabetic macular edema (DME)
- Primary open-angle glaucoma
- Angle-closure glaucoma
- Refractory glaucoma
- Intraocular tumors, including choroidal hemangioma, choroidal melanoma, and retinoblastoma



Laser Ophthalmoscope



Slit-Lamp Adapter

Endoprobes, probes and measuring devices

The system supports laser endoprobes for retinal and vitreous procedures, probes for conventional and micropulsed cyclophotocoagulation, and equipment for checking compatible probes and endoprobes.



OPTO MIC-CicloProbe micropulsed cyclophotocoagulation probe and OPTO GUIDE-Probe guidance device

The guidance device is intended to help position the probe approximately 3 mm from the limbus over the ciliary-body region while helping protect the conjunctiva. Technique and settings must follow the current OPTO instructions for use.

OPTO STD-CicloProbe
Conventional cyclophotocoagulation probe for treatment of refractory glaucoma when clinically indicated.



OPTO 23R, 23C, 25R, and 25C laser endoprobes
Straight and curved endoprobes for retinal treatment during vitreoretinal surgery.



Endoprobe and probe tester

Before use, compatible probes and endoprobes should be checked for proper energy transmission. OPTO's checking device is intended to help determine whether an accessory is suitable for use. Follow the current instructions for use.

LASER DELIVERY SYSTEMS

FastPulse

The OPTO Retina & Glaucoma Laser supports multiple delivery systems for directing laser energy to the eye. Accessory availability and maximum output depend on the selected configuration and AUTOKEY.

SLIT-LAMP ADAPTER FOR PHOTOCOAGULATION	OPTO ALF-FTC
Spot sizes	75, 125, 200, 300, and 500 micrometers
Maximum power (1)(2)	2,000 mW
Continuous-pulse duration	Up to 9 seconds
Compatible slit lamps	Zeiss and Haag-Streit; IEC 60601-1
Fast Pulse compatible	Yes
SLIT-LAMP ADAPTER FOR TTT	OPTO ALF-TTT
Spot sizes	800, 1,000, 1,500, 2,500, and 4,300 micrometers
Maximum power (1)(2)	2,000 mW
Continuous-pulse duration	Up to 300 seconds
Compatible slit lamps	Zeiss and Haag-Streit; IEC 60601-1
Fast Pulse compatible	Yes
LASER OPHTHALMOSCOPE - PHOTOCOAGULATION	OPTO LIO-FTC
Spot size	1 mm at 30 cm working distance
Maximum power (2)	1,500 mW
Continuous-pulse duration	Up to 9 seconds
Fast Pulse compatible	Yes
Illumination / weight	LED / 2.6 kg
LASER OPHTHALMOSCOPE - TTT	OPTO LIO-TTT
Spot size	3 mm at 30 cm working distance
Maximum power (2)	1,500 mW
Continuous-pulse duration	Up to 300 seconds
Fast Pulse compatible	Yes
Illumination / weight	LED / 2.6 kg
LASER ENDOPROBES	OPTO 23R, 23C, 25R, AND 25C
Models	23G / 25G, straight and curved
Maximum power (2)	1,000 mW; up to 2,300 mW depending on probe in pulse mode
Continuous-pulse duration	Up to 9 seconds
Fast Pulse / connection	Yes / SMA
Maximum length	2 m
CONVENTIONAL CYCLOPHOTOCOAGULATION PROBE	OPTO STD-CICLOPROBE
Maximum power (2)	2,000 mW
Continuous-pulse duration	Up to 4.5 seconds
Fast Pulse / connection	No / SMA
Maximum length	2 m
MICROPULSED CYCLOPHOTOCOAGULATION PROBE	OPTO MIC-CICLOPROBE
Maximum power (2)	2,200 mW
Continuous-pulse duration	Up to 60 seconds
Fast Pulse / connection	Yes / SMA
Maximum length	2 m
CYCLOPHOTOCOAGULATION GUIDANCE DEVICE	OPTO GUIDE-PROBE
Maximum power (2)	2,200 mW
Intended use	Guidance for micropulsed cyclophotocoagulation

(1) Consult the current instructions for use for the maximum power available at each spot size.

(2) The corresponding AUTOKEY is required to select the correct power limits for each accessory.



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New Opto Retina & Glaucoma Laser

TECHNICAL SPECIFICATIONS

LASER

Laser type	Semiconductor laser
Wavelength	810 nm
Maximum cavity power	3,000 mW
Cooling	Air cooling

CONVENTIONAL PULSE MODE

Continuous-pulse duration	Up to 300 seconds
Repetition interval	0-1.5 seconds

FAST PULSE MODE

Duty-cycle range	10%-50%
Duty-cycle adjustment	0.1 percentage-point increments
Pulse period	100-2,200 microseconds
Pulse-period adjustment	50-microsecond increments

AIMING BEAM

Laser type	Semiconductor diode
Wavelength	650 +/- 30 nm
Power	0.05-0.8 mW, adjustable

SYSTEM

Foot pedal	Trigger and power adjustment
Net weight	10.3 kg
Dimensions (H x W x D)	180 x 325 x 360 mm
Gross weight with transport case	23.0 kg
External cooling	Not required
Power supply	90-240 V AC, 50/60 Hz; automatic selection
Protective grounding	Through the main three-pole power cable
Equipotential terminal	Connector on rear panel
Power consumption	150 VA
Recommended UPS	500 VA minimum, pure sine-wave output

COMPATIBLE ACCESSORIES

Standard SMA fiber connection; 23G and 25G endoprobes; cyclophotocoagulation probes; slit-lamp adapters; laser ophthalmoscope



Specifications and compatible accessories may vary by configuration and market. Use only in accordance with the current OPTO instructions for use and applicable local authorization. Technical specifications are subject to change without notice. ANVISA Registration No. 10309570027.



DISTRIBUTOR CONTACT

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