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Science in Sight



532 nm Green Laser Photocoagulator

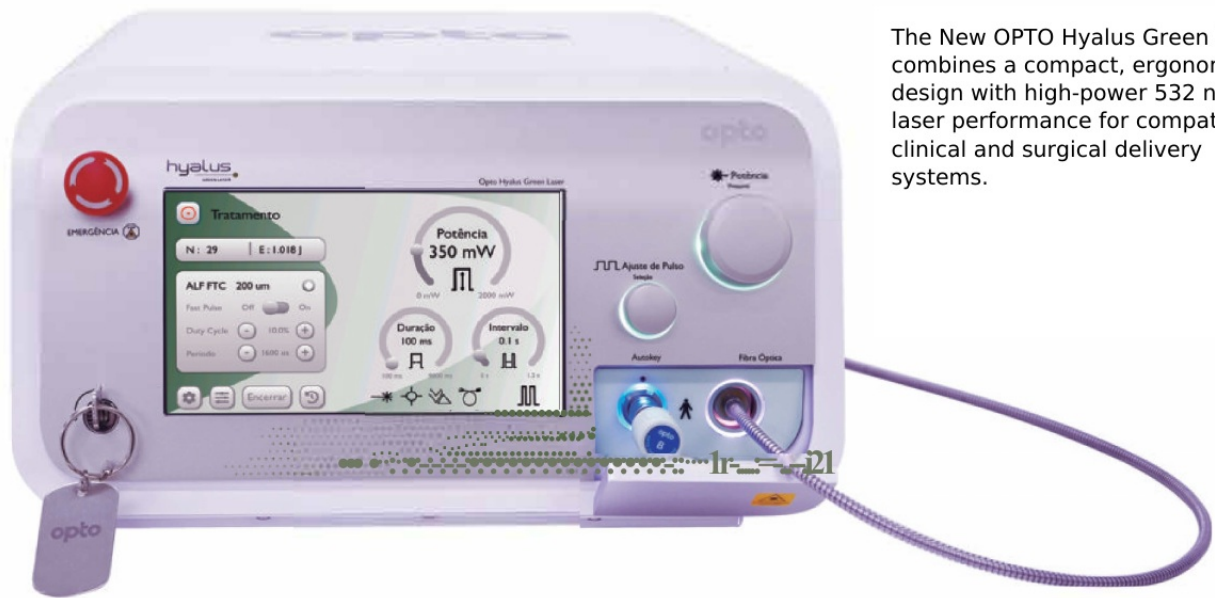
new
hyalus
GREEN LASER

HIGH POWER WITH QUALITY AND ROBUSTNESS

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new hyalus

GREEN LASER



The New OPTO Hyalus Green Laser combines a compact, ergonomic design with high-power 532 nm laser performance for compatible clinical and surgical delivery systems.

New Hyalus 532 nm

- Flexible configuration for compatible clinical applications.
- High-power, robust design.
- Uniform treatment spots.
- Automatic recognition of compatible treatment modes and accessories.
- Controls arranged for convenient access.
- Compact design for convenient transport.
- Broad selection of compatible delivery accessories.



- 7-inch wide-format color touchscreen designed to keep treatment parameters clearly visible.



- Backlit controls support operation in low-light environments.

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Slit-Lamp Adapter

- Supports manufacturer-listed retinal applications, including diabetic retinopathy, macular edema, and selected retinal vascular conditions.
- Transparent filters support clear visualization of the retina.
- Compatible with many Haag-Streit-pattern slit lamps; compatibility must be confirmed for the exact model.
- Supports panretinal photocoagulation.
- May support argon laser trabeculoplasty (ALT) when indicated and authorized.
- Designed for straightforward assembly and removal.
- Spot-size range depends on the supplied adapter configuration; consult the current OPTO specifications and IFU.



Laser Ophthalmoscope

- High-intensity LED illumination with rechargeable battery.
- Lightweight, portable design.
- Coaxial illumination and laser delivery.
- Supports peripheral retinal photocoagulation and treatment of patients in the supine position, when clinically indicated.



Endoprobes

- Durable, flexible construction.
- Straight and curved 23G and 25G models.
- Compatible microscope safety filters are available.



Foot Pedal

- Laser triggering and power adjustment.



TECHNICAL SPECIFICATIONS

LASER

Laser type	MDPSS - true CW
Wavelength	532 nm
Maximum cavity power	3,000 mW (+/- 5%)
Cooling	Air cooled

CONVENTIONAL PULSE MODE

Continuous-pulse duration	0.1-9 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	630 +/- 30 nm
Power	0.05-0.8 mW, adjustable

SYSTEM

Graphic display	7-inch wide-format color touchscreen
Foot pedal	Trigger and power adjustment
Pedal illumination	LED
Ingress protection	IPX1
Accessory recognition	AUTOKEY identification at the control panel
Emergency control	Front-panel emergency stop
Interlock	Integrated rear-panel connection
Audible alerts	Treatment, Fast Pulse, and system alerts
Net weight	10.3 kg
Dimensions (H x W x D)	180 x 325 x 360 mm
Gross weight with transport case	23 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	POAG DIN connector on rear panel
Power consumption	150 VA
Recommended UPS	500 VA minimum, pure sine-wave output

COMPATIBLE ACCESSORIES

Standard SMA endoprobes; slit-lamp adapter; laser ophthalmoscope; transport case



Optional transport case

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.

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SLIT-LAMP ADAPTER FOR RETINAL PHOTOCOAGULATION	OPTO ALF-FTC
Spot sizes	65, 110, 200, 320, and 640 micrometers
Maximum power (1)(2)	2,000 mW; 1,000 mW at 65-micrometer spot
Continuous-pulse duration	0.1-9 seconds
Slit-lamp compatibility / Fast Pulse	Haag-Streit pattern; IEC 60601-1 / Yes (4)
Weight	1.2 kg

LASER OPHTHALMOSCOPE FOR RETINAL PHOTOCOAGULATION	OPTO LIO-FTC
Spot size	1 mm diameter at 30 cm working distance
Maximum power (2)	1,500 mW
Continuous-pulse duration	0.1-9 seconds
Fast Pulse compatible	Yes
Illumination / weight	LED / 2.6 kg

LASER ENDOPROBES	OPTO 23R, 23C, 25R, AND 25C
Models	23G and 25G, straight and curved
Maximum power (2)(3)	600 mW (25C/25R, CW or FP); 1,400 mW (23C/23R, CW); 2,000 mW (23C/23R, FP only)
Continuous-pulse duration	0.1-9 seconds
Fast Pulse compatible / connection	Yes / SMA
Maximum length	2 m

- (1) Consult the current user manual for maximum power at each spot size.
 (2) The corresponding AUTOKEY is required to select the applicable power limit for each accessory.
 (3) Power limits vary by probe model and fiber-tip limitations.
 (4) OPTO recommends a slit lamp dedicated to laser use.
 HYALUS and FAST PULSE are registered trademarks of OPTO Eletronica S.A.

DISTRIBUTOR CONTACT

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Availability, indications, maximum output, and compatible accessories vary by configuration and market. Consult the current OPTO instructions for use and applicable local authorization before use.