The Integre® photocoagulator platform allows you to select from a number of wavelength configurations (green/red, yellow or green) in order to best meet your clinical requirements – maximizing treatment flexibility and ensuring effective patient results.

Designed for consistent and repeatable treatment performance, the fully integrated design of the treatment laser and diagnostic slit lamp into one slimline platform ensures the Integre® provides a high-resolution image with a wider peripheral view, optimum illumination of the fundus and better depth perception – making it the ideal system for the diagnosis and treatment of retinal diseases.

The fully integrated design of the Integre® ensures more stable and consistent energy delivery – and offers the added benefit of patient comfort and ease of operation. In addition, all controls – spot size, energy, shot duration and micromanipulator – are conveniently located, right at your fingertips.

Indications for Use

- Retina
- Retinal Photocoagulation
- Glaucoma
- Operative Laser Photocoagulation
- Laser Trabeculoplasty

The Integre® is the first all-in-one laser/slit lamp photocoagulator to offer a choice of red, yellow or green wavelengths. By integrating the treatment laser in the diagnostic slit lamp, the Integre® provides better depth perception and a wider peripheral view – making it the ideal system for the diagnosis and treatment of retinal diseases.

All Williams Optics Warranty and Support Information can be found on the Integre® User Manual located on the CD-ROM. Please read this manual prior to operating the device.

The Integre® is a registered trademark of Integre Medical Pty Ltd. Integre is a registered trademark of Integre Metaform Medical Pty Ltd. E&OE. PB0002G.
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Accessories and Options

- **Power Control® Footswitch** (optional accessory)
- **Laser Indirect Optophthalmoscope (LIO)**
- **Total Solution® Tables**
- **High-Visibility Safety Filter - Motorized and Fixed Options**

Indications for Use

- **Retina**
- **Photocoagulation**
- **Laser Indubility**

The Integre® photocoagulator platform allows you to select from a number of wavelength configurations (green/red, yellow or green) in order to best meet your clinical requirements – maximizing treatment flexibility and ensuring effective patient results.
1. Better Diagnosis and Treatment All-in-One

The purpose-built Integre® slit lamp provides high-precision optics matched for optimum laser performance – creating the industry’s leading system for the diagnosis and treatment of retinal disease. Featuring a 10-degree stereoscopic angle, the Integre® provides better depth perception and a wider peripheral view, combined with high-contrast imaging and optimal illumination of the fundus.

2. Superior Energy Distribution

The Integre® delivers even energy across the full diameter of the spot, from the beginning to the end of exposure, without creating hot spots. This is because we use the highest quality optics and laser components in the industry with real-time, active light feedback that continuously monitors and adjusts power output.

3. True Spot™ Optics

The Integre’s True Spot™ optical system offers a uniform, edge-rounded top-hat beam on the retina with the added benefit of low power density at the cornea. It also allows you to select any spot size, ranging from 50 to 1000 microns.

4. Perfect Positioning

The Integre® features a high-precision micromanipulator that allows you to accurately position focal treatments in the macular area, and to also “paint” large areas with multiple spots — enabling quick and easy adjustment in order to cater for variation in pigmentation.

5. Control at Your Fingertips

All controls — spot size, energy, shot duration and micromanipulator — are conveniently located, right at your fingertips.

6. Greater Efficiency at the Touch of a Button

With the Integre’s green-red wavelength configuration you can easily switch between wavelengths for seamless retinal treatments, allowing you to perform multiple procedures in one setting.

7. Faster Treatment

With a repetition rate of up to 10 shots per second (10 Hz) the Integre® allows you to perform treatments quickly and efficiently.

Clinical Versatility

With the Integre® you can select from a number of wavelength configurations in order to best meet your clinical requirements:

- 532nm green and 670nm red
- 532nm yellow
- 532nm green

546nm Yellow: maximal absorption in hemoglobin with negligible absorption in vascular endothelium.

The 546nm yellow wavelength approximates the peak absorption of hemoglobin, is well absorbed by melanin in the retinal pigment epithelium (RPE), but has minimal absorption by xanthophyll in the neurosensory retina, making it ideal for treatments in and around the macula. It also produces less scatter, which permits superior transmission through existing opacities. With the 546nm yellow wavelength, the user has more control over the laser-tissue interaction, which creates a more subtle, controlled burn. In addition, treatment can be performed at lower, more efficient energy levels, creating significantly less discomfort for the patient during and following treatment.

670nm Red: deep, gentle penetration for effective treatment of choroidal vessels.

The 670nm wavelength features low absorption by hemoglobin, improving its transmission through minor pre-retinal, intra-retinal or sub-retinal hemorrhage. In addition, its penetration depth is ideal for selectively treating choroidal vessels, while helping to preserve the integrity of the overlying retinal layers. 670nm offers less scatter than the yellow wavelength, making it ideally suited for treatment through a cloudy cornea or lens. The results are gentle, deep retinal tissue penetration and effective treatment of choroidal vessels.

532nm Green: the standard of care for common procedures, such as retinal photocoagulation, laser trabeculoplasty and iridotomy.

The 532nm wavelength is primarily absorbed by melanin and hemoglobin, making it ideally suited for treatment applications involving the RPE layer and new blood vessels. For example, pan-retinal photocoagulation (PRP).

The 561nm yellow wavelength approximates the peak absorption of hemoglobin, with maximum absorption in the retinal pigment epithelium (RPE), and negligible absorption by xanthophyll in the neurosensory retina, making it ideal for treatments in and around the macula. It also produces less scatter, which permits superior transmission through existing opacities. With the 561nm yellow wavelength, the user has more control over the laser-tissue interaction, which creates a more subtle, controlled burn. In addition, treatment can be performed at lower, more efficient energy levels, creating significantly less discomfort for the patient during and following treatment.

561nm Yellow: maximal absorption in hemoglobin with negligible absorption in vascular endothelium.

The 561nm yellow wavelength approximates the peak absorption of hemoglobin, is well absorbed by melanin in the retinal pigment epithelium (RPE), but has minimal absorption by xanthophyll in the neurosensory retina, making it ideal for treatments in and around the macula. It also produces less scatter, which permits superior transmission through existing opacities. With the 561nm yellow wavelength, the user has more control over the laser-tissue interaction, which creates a more subtle, controlled burn. In addition, treatment can be performed at lower, more efficient energy levels, creating significantly less discomfort for the patient during and following treatment.

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Photocoagulator platform

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The fully-integrated design of the Integre® ensures more stable and consistent energy delivery – and offers the added benefit of patient comfort and ease of operation. In addition, all controls – spot size, energy, shot duration and micromanipulator – are conveniently located, right at your fingertips.

One Powerful Vision

Specifications

Laser Wavelengths

- green wavelength configuration: 532 nm
- yellow wavelength configuration: 561 nm
- red wavelength configuration: 670 nm

Power at the Cornea

- ≥ 1.35 watts, yellow: 561 nm
- ≥ 1.5 watts, red: 670 nm

Exposure Time

- ≥ 0.01 to 7.6 seconds

Spot Size

- 30 to 1500 µm

Focus Mode

- fixed focus, adjustable intensity

Microenvironment

- atraumatic, vibration-damped

Indications for Use

- Retinal Photocoagulation
- Power Control™ Footswitch
- Beam Splitter, power control
- Total Solution™ table range
- Power Control™ Footswitch, remote
- Micromanipulator – spot size, energy, shot duration and micromanipulator
- All covers, motorized eye safety filter
- LIO, Power Control™ footswitch, beam splitter, Safety Glasses, laser safety sign, dust cover, motorized eye safety filter (optional with the green wavelength configuration)

Additional Specifications

- Dimensions: 62 x 76 x 47 cm, 24 x 30 x 19 inches
- Weight: 35 kg, 77 lbs.
- Electrical Requirements: 100–240 VAC, 50/60 Hz, 800 VA

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