



iRES

iRES is the first refractive laser system specifically developed to perform customized refractive and therapeutic corneal surgeries. Clinical experience of more than 100,000 custom surgeries is the genesis of the iRES technology. Surgical computer-aided design and planning using the principles of CIPTA® and CLAT®, integrates the real corneal shape, dynamic pupil assessment, and refractive aberrations to define the ablation profile. VARIABLE WIDTH - CONSTANT SLOPE™ transitions, and HIGH DEFINITION DELIVERY™ implement a new standard of quality for custom refractive and therapeutic applications. A variable pulse rate is delivered to the cornea achieving a CONSTANT PULSE RATE PER AREA.™ This patent applied for technology accounts for plume related ablation rate changes that are both localized (central islands) and general (nomogram compensations) common in other laser systems.

The Clinical Applications

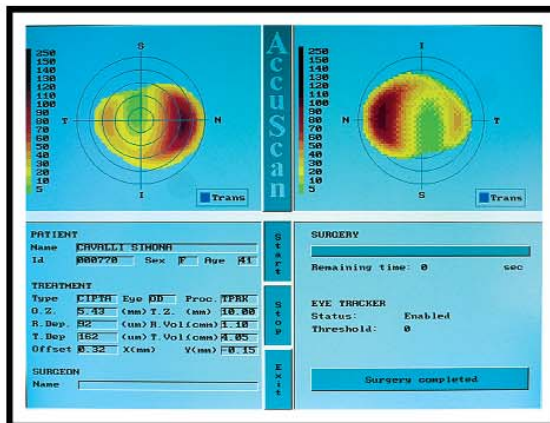
- ▶ Custom refractive surgery
- ▶ Custom therapeutic surgery
- ▶ Custom Corneal lamellar transplantation
- ▶ Excimer glaucoma therapy
- ▶ Laser-assisted pterigium therapy

The Technology

- ▶ Ultrafast 1,000 Hz.
- ▶ High resolution, micrometric 0.65 mm dual gaussian spot laser
- ▶ Total processes automation, including self-calibration
- ▶ High-speed, dynamic threshold eyetracking system
- ▶ Rotational compensation with ocular features registration
- ▶ Custom refractive planning utilizing CIPTA
- ▶ Custom therapeutic planning utilizing CLAT
- ▶ Sealed environment delivery optics
- ▶ Individual surgeon and assistant centric monitors
- ▶ Total weight: 258 Kg.
- ▶ Power requirements: 230 V/ 6.5 A
- ▶ Class 4 Laser- ArF 193nm delivering 250 mj / cm²
- ▶ Class 2 Laser- Red diode 630 - 680 nm; power <1mW
- ▶ Class 1 Laser- Green diode 530 - 540 nm; power ≤0.39mW

Setup

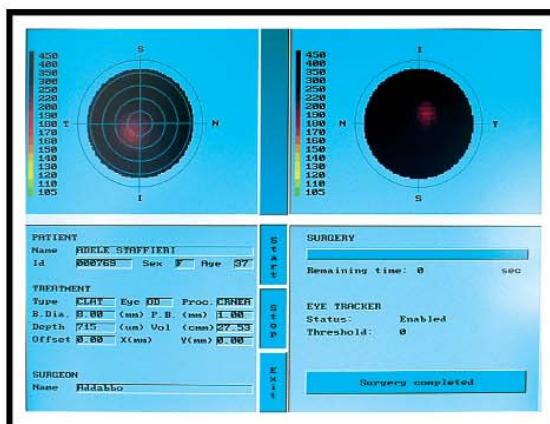
Simple to use, fully automated processes including corneal plane calibrations. Individual surgeon and technician centric, integrated monitors.



Surgery

Imported surgical data is shown as a preview of the surgical plan. Surgery process is clearly managed with surgical progress map, real time eye-tracking monitor and patient data summary.

Elegance is breaking down the complex task to be easy to execute.



Versatility

Now your refractive laser adds important new functionality. . . therapeutic surgery. Treatment of prior refractive surgery complications, custom lamellar transplantations, complex cornea cases, degenerative corneal conditions, glaucoma, and others bring new opportunities and advanced services to your patients.

Global Sales



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