

EndoOptiks® ECP

Endoscopic CycloPhotocoagulation

"In patients with controlled glaucoma and cataracts, combined ECP with phaco-IOL insertion is my treatment of choice."

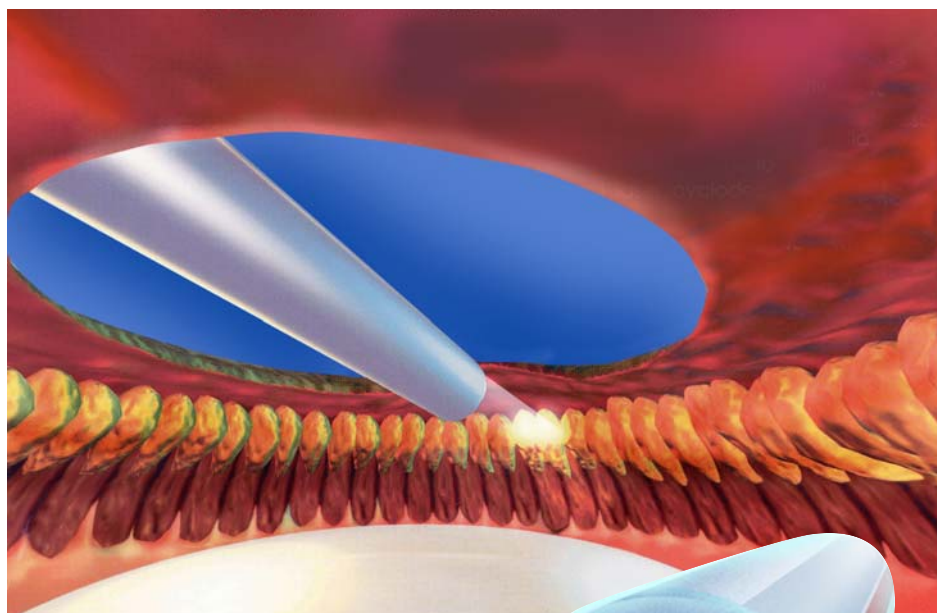
Richard J. Mackool, M.D.

Endoscopic Cyclo Photocoagulation (ECP) is a surgical approach to glaucoma management that employs light endoscopy and visualized laser application. The ciliary body (which produces aqueous humour) is viewed by the surgeon, from the anterior or posterior segment, through the endoscope in real time. The target tissues are easily and accurately identified utilizing endoscopy. This allows discrete treatment of the targeted ciliary processes with clear laser ablation and minimized trauma to peripheral (non targeted) tissues.

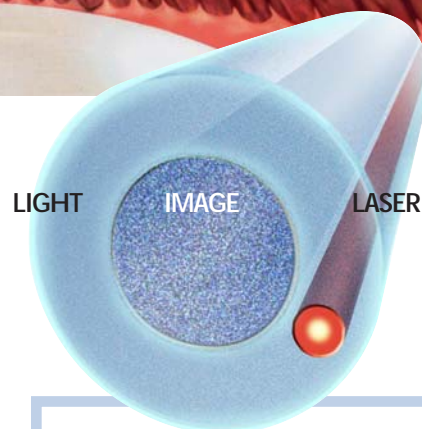
A clear corneal or limbal incision (as used in phacoemulsification) is sufficient to perform this mode of treatment, enabling the surgeon to combine ECP with phaco, or to perform a stand-a-lone ECP procedure. From a single incision, between 180-200 degrees of ciliary processes can be visualized and treated. Typically, a minimum of 270 degrees are treated with significant, desired impact.

Intended surgical results lower intraocular pressure (IOP) long term, reduce required patient medications (minimizing compliance issues), and retard progression of the glaucomatous condition. Complication rates remain lower than those associated with all other traditional surgical and laser treatments for glaucoma management.

ECP treatment of Ciliary Processes



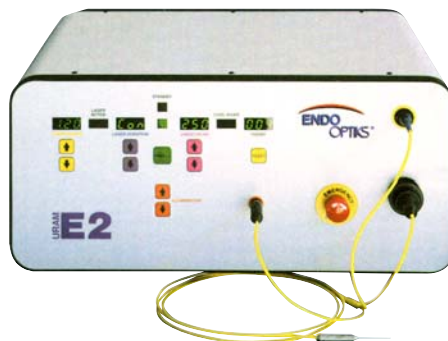
This compact laser and endoscopy unit houses a light source, laser and camera. The laser output, pulse width, light and aiming beam intensity are controllable and the parameters are displayed on a back-lit, front-panel LCD. A foot control enables hands-free operation. For safety there is an emergency shutoff button. The rear panel features simple connectors to any video monitor, VCR or video printer.



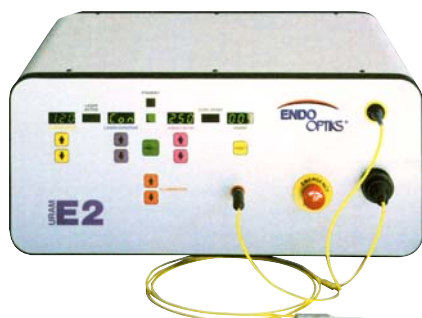
Light 110° Illumination for maximum intraocular field of view

Image Clear visibility of ocular tissues from the anterior or posterior segment

Laser Clean, focused photoablation of target tissues with minimal peripheral trauma



Weight: 47 lbs
 Power: 120V AC, 50/60Hz, 220/240V AC, 50/60Hz
 Laser: Class IV, 810 nm Diode Laser, Pulsed, CW
 2 Watts Power Output, 640 nm Diode Laser
 (aiming beam)
 Light: 175 Watt Xenon Light Source
 Camera: High Resolution Camera System
 S/N: 46 dB or more
 Output: VBS 1.0 V(p-p), (BNC terminal) NTSC system
 Y/C separation output (S terminal)
 Output impedance: 75W unbalanced



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"Combined phacoemulsification and trabeculectomy is associated with moderate long term successful IOP control and often permits patients to reduce or discontinue glaucoma medications. However, the trabeculectomy portion of the operation dramatically increases the risk of significant complications, delays visual recovery, and adds substantially to the length of the operation....

"EndoscopicCycloPhotocoagulation can be performed rapidly and safely at the time of cataract surgery. Significant complications, such as inflammation, visual loss, choroidal hemor-

rhage and other devastating problems have not been reported. In several studies, the 'ideal' result - controlled IOP on no medications - has been achieved in 50% of those treated and 72% were able to decrease the number of medications required. The technique is rather simple. After removal of all nuclear and cortical material, sodium hyaluronate is injected between the iris and the anterior capsule. This permits the laser endoscope to easily access the ciliary processes. I routinely perform 180 degrees of ciliary process treatment using a laser 'painting' technique."

Catalog#	Description
OME 2000	URAM E2 Compact Microprobe Laser and Endoscopy System
OME 3000	URAM E3 Compact Microprobe High Power Laser & Endoscopy System
OME 4000	URAM E4 Endoscopy System
OME 1500	15 Watt Diode Laser
OME 1200	2 Watt Diode Laser
OME 1600	LX - Mini Light Source

ENDOSCOPES, PROBES AND FIBERS

OME 200 SMA-E	Ophthalmic Laser Endoscope - Semi-Disposable (5 Pack)
OME 200X	Ophthalmic Laser Endoscope with Custom Laser Connector (5 Pack)
OME 200L	Ophthalmic Endoscope - Light and Camera - Semi Disposable (5 Pack)
VPH 200	Endophotocoagulation Probes Disposable, Single Use (5 Pack)
VPH200A	Endophotocoagulation Probe - Fully Reusable - Autoclavable
VP5100	Single Use, 20 Gauge Illumination Probe (5 Pack)
OME 20LA	Illuminated Laser Probe - Wide Field, Fully Reusable - Autoclavable
VP200W	Wide Field Illumination Probe - Fully Reusable - Autoclavable
OME GR001	Ophthalmic Glass Rod Endoscope - Semi Disposable (5 Pack)
VP-5330-C	Disposable Laser Fiber (For 15 Watt Laser) - Pack of Five

ACCESSORIES

OME 120AH	Slit Lamp Adapter (Haag-Streit Style)
OME 120 LIA	Laser Indirect Attachment (For Heine or Keeler Headpiece)
OME CC12	1/2" Video Cable (For Standard Glass Rod Endoscope) - Push On Connector Focusing Ring and 810NM Laser Filter
OME CC14	1/4" Video Cable (For OME GR001) - Push On Connector Focusing Ring and 810NM Laser Filter
OME GRLC	Light Fiberoptic Cable
OME 120 SL	Slit Lamp with Motorized Table
OME 300Z	Video Adapter Upgrade
M001	Sony Video Monitor - 13
CT001	Custom Operating Room System Cart
OME 100LF	Diode Laser Safety Filter for Zeiss Microscope
OME 100LFM	Diode Laser Safety Filter for Moller Microscope
OME 100LFW	Diode Laser Safety Filter for Wilde Microscope
VP6200	Sterilization Tray
VP5120	Endoscopic Blade
LG001	Diode Laser Safety Goggles
VP5000	VALUE PACK - Includes: 1 Endoscopic Sclerotomy Blade, 1 Instrument Panel Drape, 1 Calibration Sleeve, 1 Incision Marker