



ASSISTANT

OPTIKON™
Man and Technology

■ **OPTIKON 2000 S.p.a.**

Via del Casale di Settebagni, 13
00138 Rome
www.optikon.com

■ **CONTACTS**

■ **CUSTOMER SERVICE**

tel. +39. 06.88.88.355
fax +39. 06.88.88.440
e-mail: sales@optikon.com

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dondele www.dondele.com

Assistant
Minimal Stress



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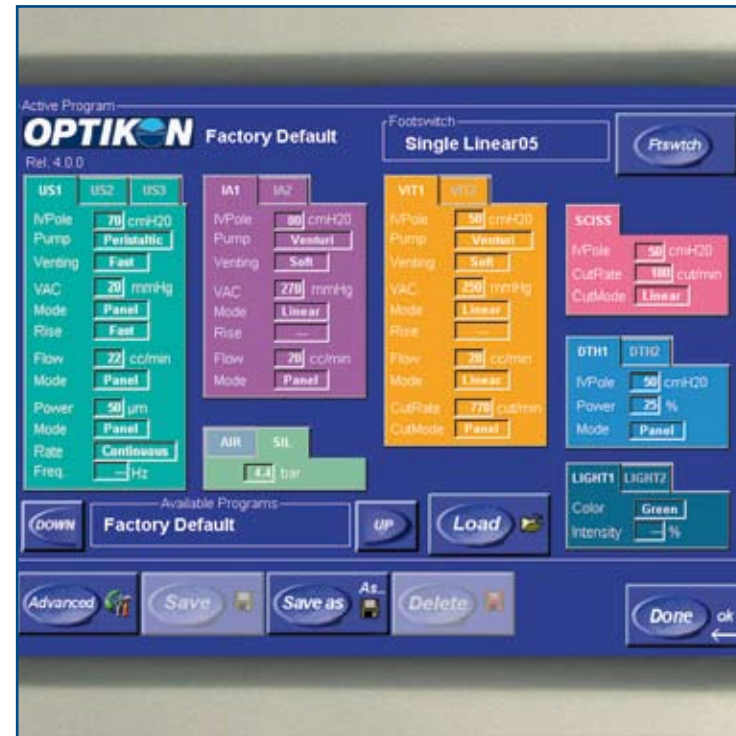


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REF 121008

The Complete Surgical Workstation for Anterior & Posterior Segment Surgery



- **EASYSYS**, Ergonomic Design I/A Cassette.
- **U/S Programmable Emission Mode.**
- **Co-M.I.C.S. & M.I.C.S. Product line**
(Incision size range 3.2 mm - 1.0 mm).
- **Hyperspeed Vitrectomy: up to 4000 cuts/min.**
- **EMERGENCY MAX PRESSURE Command.**
- **DOUBLE H.I.D Xenon Light Source.**
- **20G, 23G and 25G Product line.**
- **Ready for ECLIPSE Video Overlay Console.**
- **Continuous Micrometrical Stroke Length Control & Adjustment**
by *Minimal Stress* System (patented).
- **Double Infusion: Forced *Minimal IOP* (patented) & Built-in**
Programmable I.V. Pole.
- **Programmable, Simultaneous Double Linear Control Footpedal.**
- **LCD Touch Screen.**
- **User Friendly Control Software.**

TECHNICAL FEATURES

PROGRAMMABILITY

- **PROGRAMS**
Over 1000 user programs

EQUIPMENT CONTROL

- **FOOTPEDAL**
Simultaneous Dual Linear Programmable
Footpedal controls all the equipment functions

- **REMOTE CONTROL**
Cable wired, controls all functions

ILLUMINATION

- **SOURCES**
Two independent 5100°K high efficiency HID lamps
Simultaneous connection of up to four fiber
optic light pipes

- **LIGHT INTENSITY**
Adjustable in 4 steps by motorized diaphragm

- **FILTERS**
Green filter to increase visibility of epiretinal
membranes

- **FIBER OPTIC PIPES**
20G, 23G and 25G models

IRRIGATION

- **IRRIGATING PRESSURE**
Regulated by the height of the built-in electric
I.V. pole and/or by computer control
injection of pressurized air into a patented
sterile irrigation fluid bag (*Minimal IOP*)
Emergency one step Max pressure setting
by touch screen

- **IRRIGATION CONTROL**
Footpedal. Continuous irrigation available
by touch screen or footpedal

ASPIRATION

- **ASPIRATION PUMP TYPE**
Easysys: dual pump (Peristaltic and Venturi),
disposable cassette

The user can switch between the two pumps
during surgery

- **VENTURI PUMP GAS SUPPLY**
Pressurized air from external source
(5-8bar, 30NI/min)
- **VACUUM LEVEL RANGE**
Programmable from 0 to 500mmHg (step 5mmHg)
- **FLOW RATE RANGE**
Programmable from 2 to 50cc/min (Peristaltic only)
- **RISE TIME**
Programmable
- **CONTROL**
Panel or Linear Vacuum level control by the footpedal
(Peristaltic and Venturi)
Panel or Linear flow control by the footpedal
(Peristaltic only)
- **REFLUX**
Gravity fed, footpedal controlled
- **VENTING**
Mixed fluids or air
- **SAFETY SYSTEM**
ACS3 (Anterior Chamber Surge Suppression System)

VITRECTOMY

- **CUTTER TYPE**
Pneumatic guillotine cutter
- **CUTTING RATE RANGE**
Single cut or 60 to 4000cut/min
- **CUTTERS**
20G Autoclavable guillotine, with adjustable port (0.2-0.7mm)
20G, 23G and 25G Single use guillotine
Anterior segment vitrectomy cutter
Self-illuminated cutter
- **SPECIAL FEATURES**
Open tip / Closed tip positions
- **CONTROL**
Panel or Linear cut rate control by the footpedal

SCISSORS

- **MICROSCISSORS TYPE**
Autoclavable pneumatically powered
- **CUTTING RATE RANGE**
From 60 to 320 cuts/min - single cut
- **SPECIAL FEATURES**
Open tip / Closed tip positions
Footpedal controlled progressive cut
- **CONTROL**
Panel or Linear cut rate control by the footpedal

DIATHERMY

- **TYPE**
Bipolar diathermy, 7watt @450ohm
- **PROBES**
Forceps and pencil eraser surface probes,
endo-ocular pencil probes
- **CONTROL**
Panel or Linear emission control by the footpedal

PHACOEMULSIFICATION

- **OPERATING FREQUENCY**
40KHz
- **MAXIMUM STROKE**
Up to 100µm, with *Minimal Stress* control (patented)
- **OPERATING MODES**
Continuous, Pulsed, Single Burst, Multi Burst,
Continuous Burst and Programmable Emission Mode
- **HANDPIECES**
Slim Four piezoelectric handpiece (four crystals,
titanium ultralight 40gr)
Single use two crystals handpiece, includes US needle,
sleeve and test chamber
- **TIP AND SLEEVES RANGE**
For incision size ranging from 1mm to 3.2mm Coaxial,
Co-MICS, MICS
- **CONTROL**
Panel or Linear stroke control by the footpedal

STERILE AIR INFUSION

- **PRESSURE RANGE**
From 5 to 80mmHg (steps of 5mmHg)
- **STERILITY**
Achieved by 0.22 microns sterile single use filters

VISCOUS FLUIDS

- **PRESSURE RANGE**
From 0.4 to 5.0 bar (step of 0.2 bar)
- **CONTROL**
Linear injection control
- **INJECTION SYSTEM**
Pre-filled 1000 and 5000 cSt disposable syringes
- **REMOVAL**
Single use dedicated kit
- **SAFETY SYSTEM**
Activation warning tone

TECHNICAL SPECIFICATIONS

- **INPUT VOLTAGE**
100/120/220/230-240 Volt a.c. select
- **FREQUENCY**
50/60 Hz
- **INPUT AIR PRESSURE**
From 500 to 800 KPa (72 to 116 PSI)

REGULATORY

- **CE MARKING**
European directive 93/42/EEC
- **SAFETY**
Conforms to IEC 60601-1
IEC 60601-1-2
IEC 60601-2-2