



EXPERIENCE A NEW KIND
OF FLEXIBILITY.

megaTRON® 54

Geuder®
Precision made in Germany

THE **NEW** MEGATRON® S4

THE FLEXIBLE WAY OF PERFECTION.

The objective of modern technology should be to adapt to human needs and fulfil individual requirements.

The new MEGATRON® S4 system brings this philosophy to life with its intelligent technology concept and numerous innovative features. The MEGATRON® S4 ensures maximum flexibility enabling surgeons to exercise their perfect surgical virtuosity in a very personal way.



megaTRON® S4

PERFECTION THROUGH FLEXIBILITY.

hybridPUMP

ocuLED

unPLUG

inVIEW



HYBRIDPUMP – THREE OPTIONS FOR CREATING VACUUM WITH A DUAL PUMP SYSTEM

- Classic vacuum buildup: peristaltic mode, flow-controlled via peristaltic pump
- Efficient vacuum buildup: venturi-effect mode, rise-time-controlled via peristaltic pump
- Immediate vacuum buildup: venturi-mode, rise-time-controlled via direct control pump
- Linear, fixed or exponential control of all vacuum modes via footswitch

hybridPUMP

PERFECT VACUUM FOR EVERY SURGICAL STEP

OCULED – THE UNIQUE INTRAOCULAR LED LIGHT SOURCE IN A HANDPIECE

- Reduced costs – no central light source needed
- Excellent illumination with optimal contrast
- Consistent light quality and color temperature through disposable LED handpiece
- Better risk profile due to lack of infrared and ultraviolet light components when compared to conventional light sources
- 20, 23 and 25 gauge straight, wide-angle and wide-angle shielded assortment

ocuLED

PERFECT ILLUMINATION WITHOUT CENTRAL LIGHT SOURCE



megaTRON® 54

UNPLUG - OPTIONAL UPS AND INDEPENDENCE FROM EXTERNAL COMPRESSED AIR

- Consistent quality of compressed air by means of internal compressor
- Increased patient safety by elimination of fluctuations in compressed air supply
- Optimized mobility in the operating room due to absence of compressed air tube
- Interruption-free surgical procedures even with short power outages thanks to optional uninterruptible power supply (UPS)

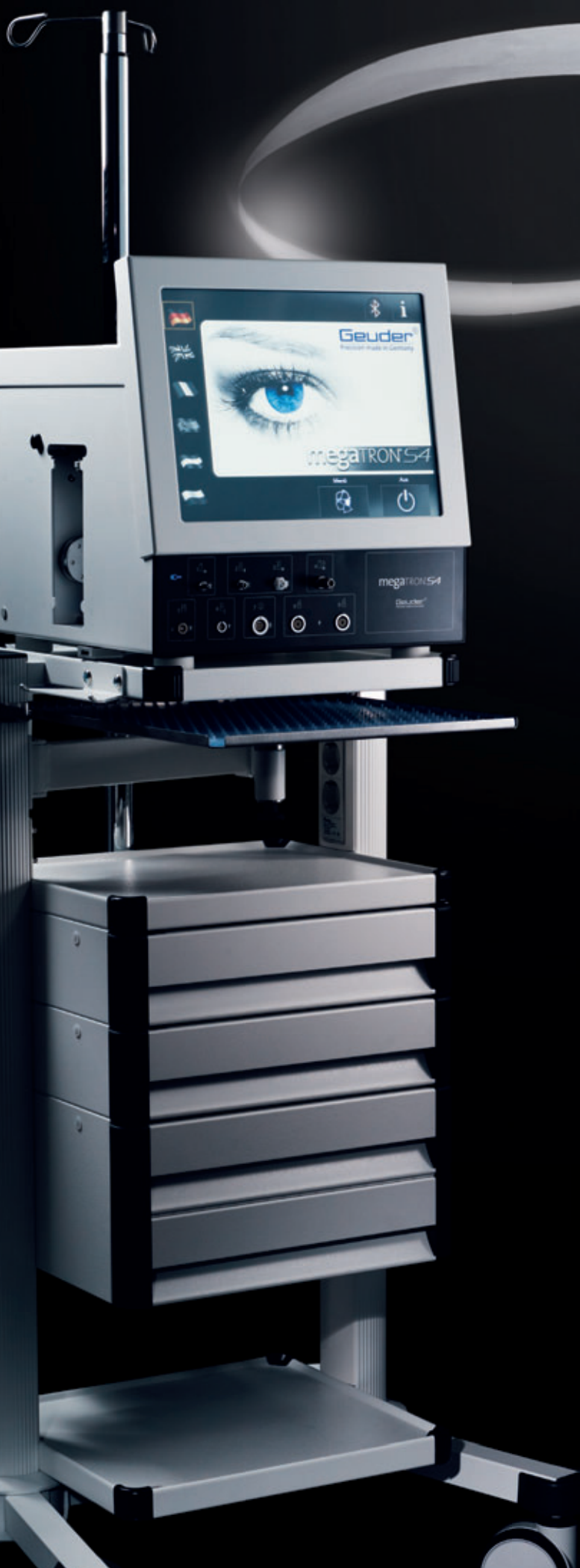
unPLUG PERFECT SUPPLY INDEPENDENT OF SURROUNDING CONDITIONS

INVIEW - INNOVATIVE DISPLAY OF SYSTEM PARAMETERS IN THE VISUAL FIELD OF THE MICROSCOPE*

- Permanent visualization of relevant parameters (flow, phaco power, vitrectomy cutting rate, infusion height, surgical steps, etc.)
- Dynamic update of the parameters in the display
- Distraction-free operating under microscopic view

inVIEW PERFECT PARAMETER DISPLAY IN THE SURGEON'S FIELD OF VISION

* currently only available for Möller-Wedel microscopes



UNCOMPROMISING ANTERIOR AND POSTERIOR SEGMENT SYSTEM

- All modules and functions for modern anterior and posterior segment surgeries
- Wide range of accessories for all phaco techniques and for vitreoretinal surgery
- Small, lightweight design for maximal mobility

HIGH-SPEED VITRECTOMY

- Wide selection of magnetic and pneumatic vitrectors
- Traction-free surgery directly at the retina with the UNO Colorline vitrectors
- Cutting rate up to 4,000 cpm

SMALL INCISION SURGERY

- Optimized complete system for MICS and CMP
- Device parameters perfectly tailored to micro-phaco accessories
- Patented high-performance accessories for biaxial and coaxial micro-phaco



FREELY PROGRAMMABLE FOOTSWITCH WITH HOT-SWITCH FUNCTION

- Nearly limitless assignment of the 10 functions
- Immediate switching between the device modes with the hot-switch function without releasing the footswitch
- Linear, fixed and exponential control via bidirectional footswitch

BLUETOOTH REMOTE CONTROL

- Remote control of device functions from anywhere in the operating room
- Perfectly readable display even in dim light conditions
- Touchscreen programming of relevant functions

USER-INTERFACE DESIGN

- Flexible customization of settings to suit individual needs
- Individual programming of the single surgical steps with comfort set-value entry
- Up to 20 surgeons with up to 20 surgeries with 20 specific surgical steps storable

LAN REMOTE DIAGNOSIS

- Best technical support
- Quick and efficient remote diagnosis
- Easy connection with a standard LAN port

TECHNICAL DATA

GENERAL INFORMATION

DIMENSIONS (L x W x H)

420 x 420 x 370 mm

WEIGHT max. 25 kg

POWER SUPPLY

VOLTAGE 100 – 240 V

FREQUENCY 50/60 Hz

POWER CONSUMPTION max. 500 W

PERISTALTIC PUMP

VACUUM (LINEAR, EXPONENTIAL AND FIX CONTROL) 1 – 600 mm Hg

ASPIRATION (LINEAR AND FIX CONTROL) 1 – 50 ml/min

PULSATION FREQUENCY (ADJUSTABLE) 0 – 10 Hz

RISE TIME (VENTURI EFFECT, ADJUSTABLE) 0.5 – 5 s

DIRECTCONTROL PUMP

VACUUM (LINEAR, EXPONENTIAL AND FIX CONTROL) 1 – 600 mm Hg

RISE TIME (ADJUSTABLE) 0.5 – 5 s

COLD LIGHT

OCULED CONNECTOR

OPTIONAL XENON LIGHT SOURCE

ULTRASOUND

FREQUENCY RANGE 27 – 55 kHz

POWER OUTPUT (LINEAR, EXPONENTIAL AND FIX CONTROL) 0 – 100 %

PULSATION (ADJUSTABLE) 1 – 60 Hz

PULSE TIME (ADJUSTABLE) 2 – 900 ms

VITRECTOMY

CUTTING RATE (LINEAR, EXPONENTIAL AND FIX CONTROL)

MAGNETIC 10 – 2,000 / 4,000* 1/min

PNEUMATIC MONO LINE

10 – 2500 1/min

PNEUMATIC DUAL LINE

10 – 1200 1/min

AIR / OIL INJECTION

AIR INJECTION (ADJUSTABLE)

0 – 100 mm Hg

OIL INJECTION (ADJUSTABLE)

0.5 – 6 bar

BIPOLAR DIATHERMY

BIPOLAR WET FIELD COAGULATION ENDO-DIATHERMY

POWER OUTPUT (LINEAR AND FIX CONTROL) 0 – 15 W

PULSATION (ADJUSTABLE) 1 – 20 Hz

* with MegaVIT G-30910 and G-30985