



LASER TECHNOLOGY - MADE IN GERMANY WWW.LISALASER.DE



Sphinx jr. - Masterpiece in Holmium laser technology

Sphin Kjr.

Why Sphinx jr.?

Sphinx ir. is a masterpiece made from the latest laser technology, more than 25 years of experience in the design of Holmium lasers and in depth understanding of laser tissue interaction - for the highest customer satisfaction.

Flexible and intuitive

The **Sphinx ir.** is made for "Dusting" and fragmentation of hard and soft calculi and hemostatic cutting of tissue.

The **Sphinx ir.** is the ideal laser for endoscopic lithotripsy with rigid and flexible endoscopes.

Setting of pulse energy, repetition rate and StoneEffectTM on the high resolution touch screen is like on your favorite smartphone.

The **Sphinx jr.** is designed for the comprehensive range of LISA's compatible reusable laser fibres (for steam sterilization) and disposable laser fibres. The fibre sizes ranges from 200 µm to 1,000 µm.

Real time pulse display

The **Sphinx ir.** is the only laser which displays the laser pulse in a real time oscillogram - what you see is what you get.

Comprehensive information about the character of the laser emission is easily collected from this real time graph: more pulse peak power for stone fragmentation at high $\textbf{StoneEffect}^{TM}$ setting – less stone retropulsion, more hemostasis at low $\textbf{StoneEffect}^{TM}$ setting – all at a glance.

Family of Kix footswitches

To activate the laser device two footswitches are available. The footswitch **Kix** has a single pedal. The double pedal **Kix DUO** footswitch makes 2 selecta-

ble power settings available at the tip of your toe. This optional feature allows switching between power settings like burst mode vs. pulsed operation or high energy single pulse vs. a laser setting for stone dusting.

User-friendly and no noise

The innovative operating concept enables intuitive operation of the **Sphinx ir.** laser.

Laser settings are on the touch screen at your finger tip. The brilliant high resolution 7" widescreen colour display is highly visible even from a less favourable viewing angle.

Pulse energy, repetition rate and the **StoneEffect™** parameter are intuitively set by touch sliders on bar graphs.

The fibre port opens automatically when a fibre connector is entered.

Up to 60 individual sets of treatment parameters may be stored in memory for future use.

For your comfort: The noise emission of the **Sphinx jr.** is not noticeable in a standard OR environment.

Powerful and lasting: StoneEffect™

The **Sphinx ir.** delivers unmatched 18 kW pulse peak power at 100% **StoneEffect™** - best for fragmentation of the hardest stones.

Stone retropulsion vs. fragmentaion is controlled by adjusting the **StoneEffect** TM .

Instant accuracy: The first laser pulse is emitted instantly with pressing the footswitch – exactly at the selected pulse energy.

The **Sphinx ir.** operates continuously without overheating, power reduction or cut off to cool down. This laser masters both extensive stone work and continued use in soft tissue surgery.

Full laser power is available at any rated mains supply voltage.

Economical and ecological

The **Sphinx ir.** requires a standard power supply. No additional installations are required.

Long-live reusable laser fibres reduce clinical waste and cost per application.

The durable and service friendly design minimizes costs for maintenance.

Reliability

Benefit from more than 25 years of experience in the development and manufacture of Holmium lasers.

Applications

Laser lithotripsy
PCNL
Choledocholithiasis
Strictures
Incisions
Bladder tumours
Condylomata
Tissue ablation

Sphinx ir.

Kix DUO footswitch

Order No. 101 630 144

Benefits

Touch screen
Whisper technology
Real time pulse display
18 kW pulse peak power
Ergonomic fibre connectivity
Flexible laser fibre for URS
Proven LISA laser products quality

Memo function



Real time pulse display



Touch screen operation





Kix footswitch

Order No. 101 630 147



Safety Standards: IEC 60601

CE acc. Council Directive 93/42/EEC

U.S. federal law restricts these devices to sale by or on the order of a physician

IMPORTANT NOTICE:

The information provided is a general overview of potential clinical applications of the described products.

National health care regulations vary between countries and may exclude certain clinical applications at your location.

The user assumes responsibility to be updated about national deviations from the applications listed above.

In the USA the products are not intended for use in clinical applications in neurosurgery.

Specifications are subject to change without notice.

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Sphin Wir.



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LISA LASER PRODUCTS COMPETENCE IN SURGICAL LASER

