

CALCULASE® III – The End of the Stone Age



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The 35 Watt desktop laser “CALCULASE® III” from KARL STORZ offers the user an enhanced performance* and an excellent price-performance ratio.



CALCULASE® III is...

...powerful

With a power rating of 35 Watt, max. 30 Hertz and max. 4 Joule, the powerful CALCULASE® III is a suitable choice for lithotripsy. In addition, laser technology can be used for the treatment of tissue.

...compact

Thanks to the small, compact design, it fits into every OR – on an equipment cart or in another location.

...efficient

The user can choose between three pulse modes. Depending on the type of treatment required, the variable pulse length achieves the desired results.

*in comparison to the previous model

**Burst mode:**

The “burst mode” was designed for reducing the repulsion of stone fragments. In this mode, several pulses are emitted in quick succession to reduce stone repulsion during lithotripsy.

**Short:**

The short pulse mode can be used for stone fragmentation and tissue ablation.

**Long:**

The long pulse mode is suitable for dusting and for coagulation.

Energy and frequency values can be set according to individual needs.

Alternatively, the user has the option of selecting a predefined procedure. For these procedures, the values recommended in the literature for energy, frequency and the respective modes are preset. The following procedures can be selected:

- Lithotripsy (hard calculus)
- Lithotripsy (soft calculus)
- Lithotripsy (dusting)
- Lithotripsy (low repulsion)
- Ablation
- Coagulation

It is also possible to store individual user configurations.

...user-friendly

With its modern 10" HD touch screen display, CALCULASE® III features an interface that is user-friendly and displays the relevant data directly.

The green aiming beam makes intraoperative orientation easier for the surgeon.

The smooth surface allows optimal wipe disinfection as the unit design meets hygienic demands. A cover on the fiber connector prevents the penetration of dust.

Furthermore, the user can easily replace the laser protection glass between the laser rod and fiber coupling at any time.

...versatile

The laser is versatile in its use. It can be used for the lithotripsy of calculi and the treatment of tissue.

...intelligent

The laser is equipped with a fiber identification feature (RFID technology) to enable **automatic identification**:

- Fibers and the fiber size are identified.
- The number of applications are counted.
- The minimum and maximum setting values are displayed automatically and adjusted accordingly.

Information on the detected fiber is shown on the screen.

KARL STORZ offers both reusable and single-use fibers for CALCULASE® III. The fibers are sterile when delivered so they are available for immediate use. Furthermore, these are backward-compatible with the previous CALCULASE® II model.



CALCULASE® III

Order information

Holmium Laser:

- UL300-1
- CALCULASE® III**, holmium laser system,
power supply 230 VAC, 50/60 Hz
The following accessories are included in delivery:

ET21-1002

Mains Cord

27750124

One-Pedal Footswitch

27750235

Key Set

27750095



Safety Goggles Ho:YAG Laser, 2080 nm

UL102





Water Filling Set



Fibers:

Package of 1		Reusable	For single use 
	CALCULASE® III Fiber , 230 µm, length 300 cm, reusable/sterile	UL007	UL004
	CALCULASE® III Fiber , 365 µm, length 300 cm, reusable/sterile	UL008	UL005
	CALCULASE® III Fiber , 600 µm, length 300 cm, reusable/sterile	UL009	UL006

Package of 6:

		Reusable	For single use 
	CALCULASE® III Fiber, 230 µm, length 300 cm, reusable/sterile, package of 6	UL007S5	UL004S5
	CALCULASE® III Fiber, 365 µm, length 300 cm, reusable/sterile, package of 6	UL008S5	UL005S5
	CALCULASE® III Fiber, 600 µm, length 300 cm, reusable/sterile, package of 6	UL009S5	UL006S5

Optional accessories:

	27750095	Safety Goggles Ho:YAG Laser
	UG210	Equipment Cart, for laser

Instrumentation:

The recommended application-specific instruments in combination with CALCULASE® III can be found in the relevant catalogs for each specialty.

CALCULASE® III Specifications

Laser type	Holmium:YAG Laser (Ho:YAG)
Wavelength	2.1 µm
Power rating	max. 35 Watt
Frequency	max. 30 Hz
Energy per pulse	max. 4 J
Pulse duration	90-2000 µs
Fibers	single-use and reusable fibers (230 µm, 365 µm, 600 µm)
Aiming beam	532 nm
Fiber detection	RFID system
Activation	one-pedal footswitch
Electrical requirements	100-240 VAC; 50/60 Hz
Cooling	internal cooling system
Operating temperature	18-38 °C
Dimensions	610 × 300 × 430 mm
Weight	35 kg (incl. 2 kg cooling water)
Display	10" FULL HD touch screen

More than
75
Years

*Shaping the Future
of Endoscopy with you*

STORZ
KARL STORZ — ENDOSKOPE

THE DIAMOND STANDARD

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