## ROCAMED

# **MH01** BROCHURE

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Foot Pedal



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### **30W HOLMIUM LASER** MH01



Holmium Laser 30W is powerful and offers a wide range of different frequencies and energy.

The setup of frequency and energy is integrated in an intuitive and pre-programmed menu: for a fine and accurate treatment strategy and for stone or soft tissue with a very easy handling.

Ref.	Product Description
MH01	Rocamed Laser - Holmium Medical System



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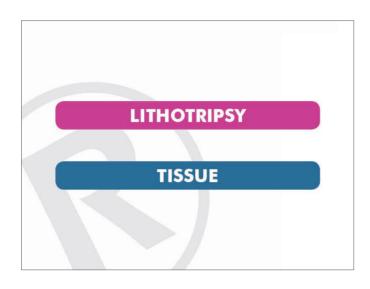


### **30W HOLMIUM LASER** Caracteristics

WaveLenght	Ho:YAG 2100 nm		
Pulse energy :	0,2 - 4J		
Pulse frequency :	3 - 25 Hz		
Pulse duration :	150-850 μs		
Pulse lengh regulation :	Automatically		
Identification of Fiber :	Fiber RFID with TAG devise		
Average power :	up to 30W - Wavelength: 2100nm+/- 20nm		
Electrical :	100-120 VAC : 50/60 HZ 16 A 200-240 VAC : 50/60 HZ 10 A		
Dimension :	938 x 332 x 967	H x W x D 5(mm)	
Weight :	60 kg		







Lithotripsy or Tissus Application mode





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### **30W HOLMIUM LASER** Lithotripsy Mode



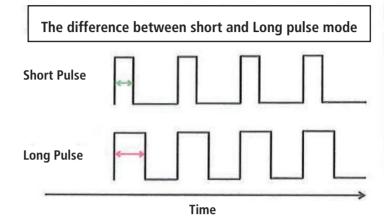


Figure 1\* - Comparing the tre traditional short-pulse mode with the new long-pulse mode, laser lithotripter setting are exactly the same pulse frequency, pulse energy, and the same power level, thus the same amount of energy is delivered.

However, in short-pulse mode, the energy delivered by the single laser pulse occurs during a certain period of time (green double arrow), while in long-pulse mode that same amount of energy is distributed over a longer period of time (red double arrow)

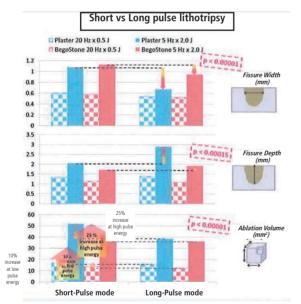


Figure 3\* - Initial experiments showed that long-pulse mode produces signigicant narrower fissures, particuly if using LoFr-HiPE and regardless of stone material. In relation to fissure depth there is an inversion of the pattern seen before withfissure width, with long-pulse mode producing deeper fissures, specially with softer stone material. Concerning ablation volume, short-pulse mode remains the more efficient lithotripter setting, with a 9.9% and 25.2% increase at low and high pulse energy settings, respectively. All these results are statistically extremely significant.

\* EAU POSTER - MADRID 2015 Peter Kronenberg & Olivier Traxer. Hopital Tenon - Paris - France Long-pulse versus Short-pulse - Laser lithotripsy performance

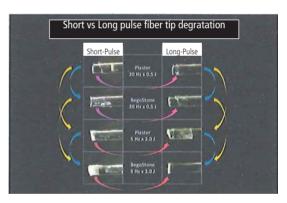


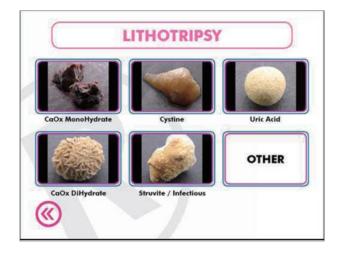
Figure 4\* - Experiments revealed more fiver tip degradation with harder stone material (blue arrows), as well as with higher pulse energy settings (yellow arrows), regarless of pulse mode. Nevertheless, comparing long and short pulse settings, long-pulse mode seems to spare the cladding and the fiber tip, showing less cladding degradation (pink arrows) as well as less fiber tip opacification (red arrows)

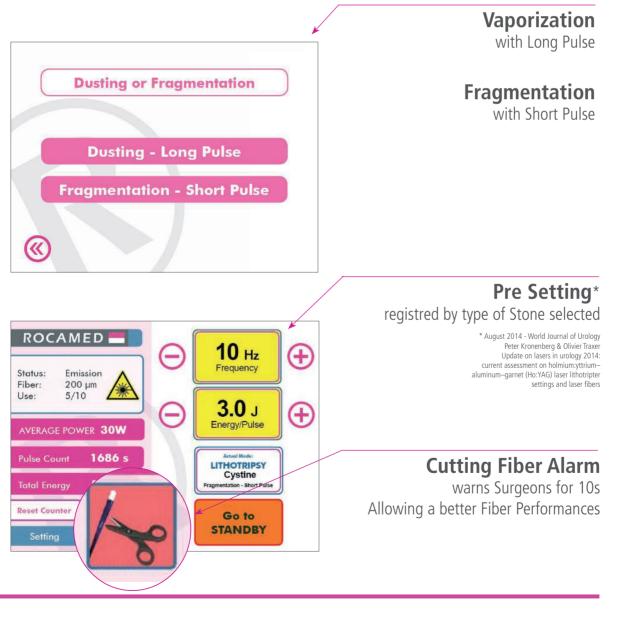
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### **30W HOLMIUM LASER** Lithotripsy Application Mode





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### **30W HOLMIUM LASER** Accessories







Accessoires	
MH30STP	Fiberstripper 0.3 -1.0 mm
MH30SCF	Ceramic scissor for fibers
MH30SGO	Safety goggles DI1400-33,,L3;905-1400DIRL5
MH30UMR	User Manual Rocamed MH01
MH300BS	Optical Blast Shield for Holmium-external access
MH30BHC	Bottle For Hydraulic circuit filling - 0,8 litre with CPC
MH30FSC	1-pedal foot control with B7 button
MH30PKG	Carton Package for LITHO-Asset

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#### → Single Use Sterile Surgical Optical Fiber

References	μm	Fiber Type	Identification	Units / box
MF200ST	200			
MF272ST	272			
MF365ST	365	Single Use	RFID	5
MF550ST	550			
MF800ST	800			

#### → Reusable Sterile Surgical Optical Fiber

References	μm	Fiber Type	Identification	Units / box
MF200RST	200			
MF272RST	272	up to10x		
MF365 <mark>R</mark> ST	365	ReUsable	RFID	5
MF550RST	550			
MF800 <mark>R</mark> ST	800			



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#### **ROCAMED SAM**

#### **ROCAMED** France



Products Specifications are subject to change without notice.

Please consult product label and insert for any indications, contraindications, hazards, warnings, cautions and directions for use. For the latest information, always check the "Instructions for Use" that comes packaged with the product.