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Comparison chart 1.48 μ m diode laser systems

Specifications and safety:

	OCTAX Laser Shot	RI Saturn	HT Zilos
Laser power	100 – 150 mW	400 mW	300 mW
		May lead to higher peak temperatures in focus	
Pulse length	Adjustable	Adjustable	3 definable values
Laser objective	25 x and 40 x HMC/RC/MC compatible		40 x
Laser Class	Class I		Class I
Proven record of safety	Yes, only system with follow-up study		No, no follow-up study for 300/400 mW lasers
Approval by FDA	Yes		Yes
Free turning of objective turret	Yes	Yes	No
Alignment of laser	No realignment after installation Exact laser position indicated by crosshair	Pilot laser necessary for realignment	No realignment possible
Reliability	Excellent, first laser systems still running since 1996 / 2000		Unknown

Hardware and software features:

	OCTAX Laser Shot	Saturn RI	HT Zilos
Camera	Custom designed OCTAX USB2.0 camera, highest image quality for all IVF applications, 1.3 or 3.0 Mpx		USB2.0 1.3 Mpx
Automatic gain control	Yes		No
Image quality	Outstanding quality		Average quality



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	OCTAX Laser Shot	RI Saturn	HT Zilos
PC	Windows 7, Windows Vista Professional / XP Professional	Windows 7, Windows Vista Professional / XP Professional	
Microscopes	Most common brands and models	Most common brands and models	
Integrated database	Yes		No
Hole size indication	Yes		Yes
Measurement functions	Yes		Yes
Hardcopy report	Yes, including images and measures		Yes
Integration of polarization microscopy (e.g. OCTAX polarAIDE) and IMSI systems (e.g. OCTAX cytoScreen) into the same software	Yes		No
Laser target visible through eyepiece	Yes, by OCTAX Target Pointer		Yes
Area of laser impact enframed by LEDs	Yes, feature of OCTAX Target Pointer		No

Customer support:

With OCTAX products you can rely on qualified service and maintenance which is provided in cooperation between MTG / OCTAX specialists and local distributors.

Summary:

OCTAX Laser Shot is the most efficient and most reliable infrared laser system on the market today. Applications of OCTAX Laser Shot are documented by a multitude of outstanding publications, also including most important pioneering work. Some examples:

- 1995: First birth after laser assisted hatching (1.48 µm wavelength diode laser)
- 1997: First laser assisted trophectoderm biopsy
- 1998: First laser assisted blastomere biopsy
- 1998: First laser assisted polar body biopsy

Control by the multi-purpose software OCTAX EyeWare makes OCTAX Laser Shot a user-friendly system for convenient laser application and simultaneous image documentation in the IVF lab. The OCTAX modular concept ensures easy upgrading with polarization microscopy or IMSI systems.