

IXDICE 1342

Diode laser pumped
Q-switched solid-state laser
Wavelength 1342 nm

General description

The IXDICE 1342 is a high repetition rate solid-state diode pumped Q-switched lasers with the unique fundamental wavelength of 1342 nm. It is the successor of the IDOL-C-1342 laser in a more compact laser housing.

The laser is optimized for high pulse repetition rates in the range 40 to 200 kHz to allow high throughput in material processing applications. Due to its high pulse-to-pulse stability and the sealed housing the IXCDICE 1342 is well suited for continuous 24/7 industrial use.

With a wavelength of 1342 nm, the IXDICE 1342 is a perfect choice as a laser tool for silicon processing like stealth dicing or trimming of integrated circuits.

The revised design also provides compliance to US CDRH regulations.

Applications

Stealth dicing
Wavelength sensitive processes
Silicon processing
Micro-machining

Features

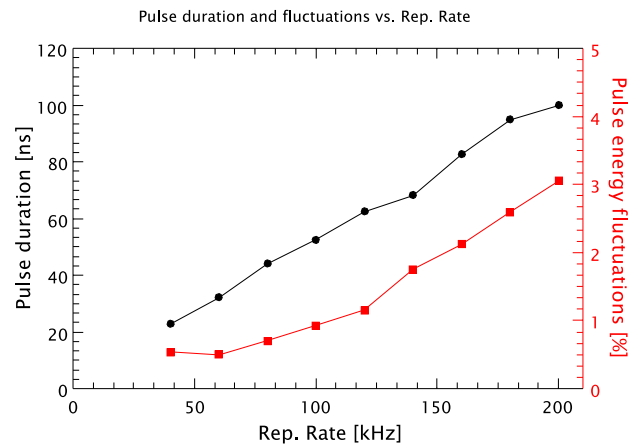
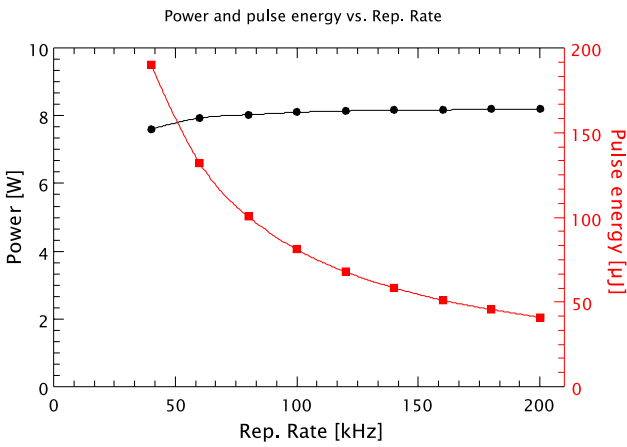
High repetition rate
Graphical user interface
LabVIEW libraries
CDRH compliance

Product specifications

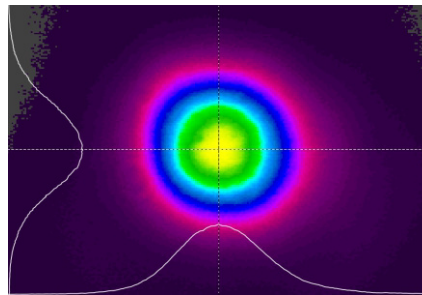
Model	IXDICE 1342
Wavelength	1342 nm
Average power	8 W
Pulse duration	approx. 50 ns
Energy per pulse	80 µJ
Repetitipon rate	40-200 kHz
M²	1.2

Data at 100 kHz pulse repetition rate.
Specifications are subject to change without notice due to product improvement.

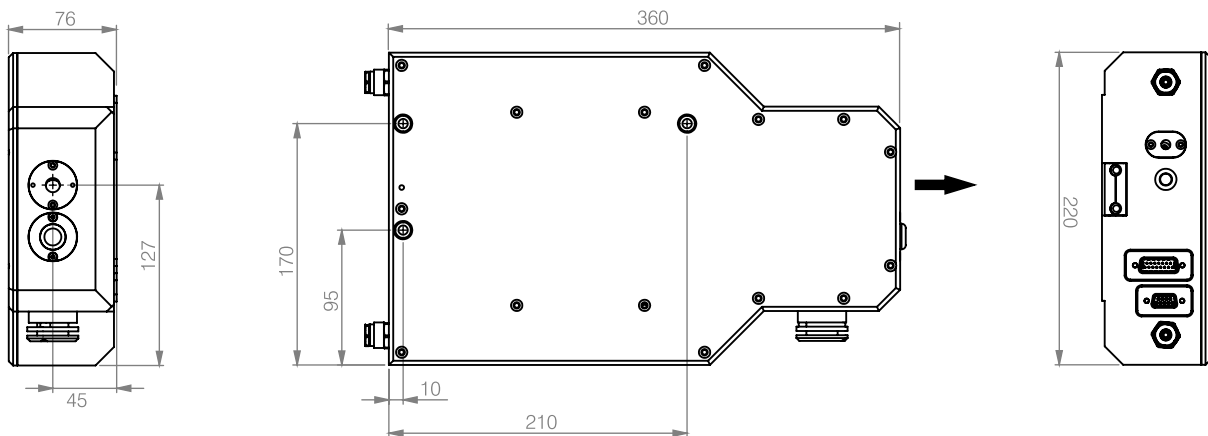
Typical performance



Typical beam profile



Dimensions laser head

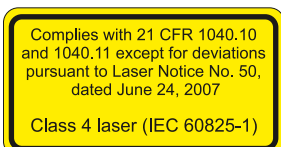


System dimensions (L x W x H), weight

Laser head	360 x 220 x 76 mm ³	10.5 kg
Power supply	447 x 440 x 134 mm ³	18.0 kg
Chiller	447 x 381 x 134 mm ³	12.0 kg

Electrical characteristics

Operating voltage	85-264 VAC
Frequency	47-63 Hz
Power consumption	120 W typ



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