



Ultrafast lasers that simply work

FOR INDUSTRY, SCIENCE AND MEDICINE

Oscillator Yb

Truly All-Fiber Femtosecond Oscillator



This femtosecond oscillator was specifically developed to be the rock-solid heart of all Fluence femtosecond lasers. Its design is based on Fluence truly-all-PM-fiber technology with no degradable components inside and no SESAM. It was tested while turned on and mode-locked under extreme temperatures (from -10° to 40°C) and vibrations up to 40 g. This exceptional feature together with small size and low power consumption makes this oscillator a perfect solution for all OEM applications.

Technical specification:

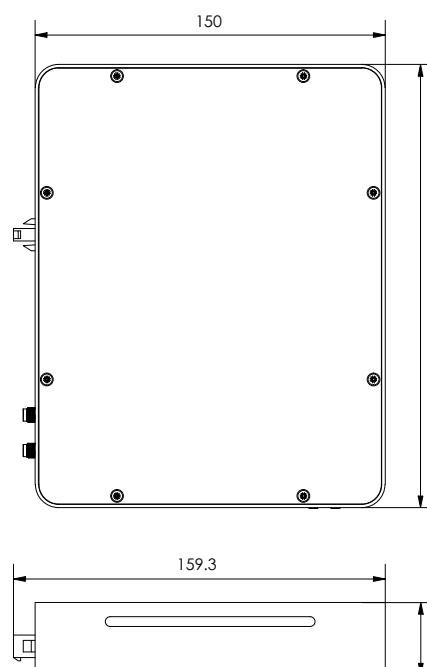
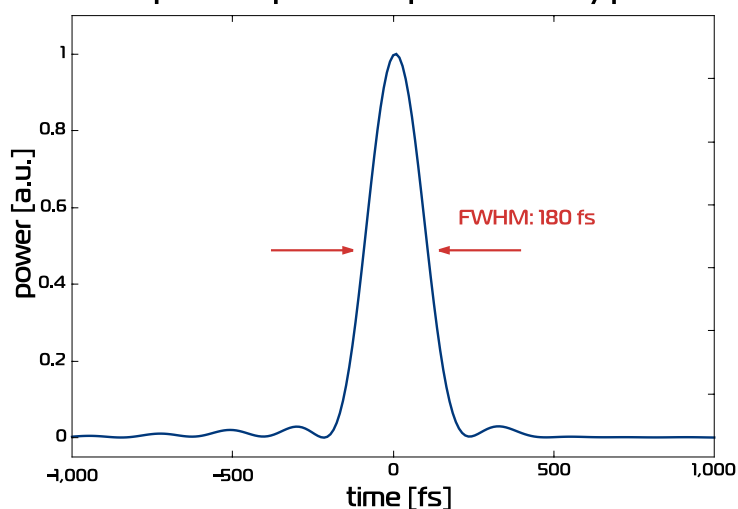
Type of output	Fiber connector
Pulse duration	Chirped pulse (compression option available < 200 fs)
Maximum average power	> 20 mW
Pulse energy	> 1 nJ
Polarization	Linear, horizontal
Central wavelength	1030 ± 5 nm
Optional wavelength outputs	515 nm
Repetition rate	20 MHz (other on request)
Beam quality (M^2)	< 1.3

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Physical specification:

Size	190 (L) x 150 (W) x 31 (H) mm ³
Weight	1 kg
Electrical	Extrenal DC
Operating temperature	15 – 35 °C
Operating humidity	Non-condensing

Compressed pulse temporal intensity profile



All dimensions in mm

All specifications are subject to change without prior notice due to continuous improvements.