

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 make this oscillator a perfect solution for all OEM applications.

Technical specification:

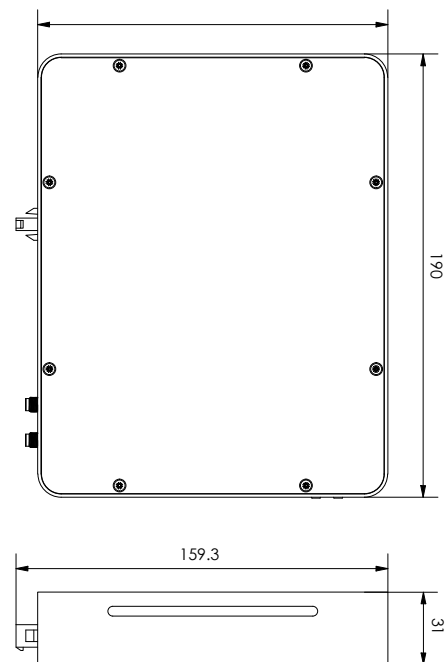
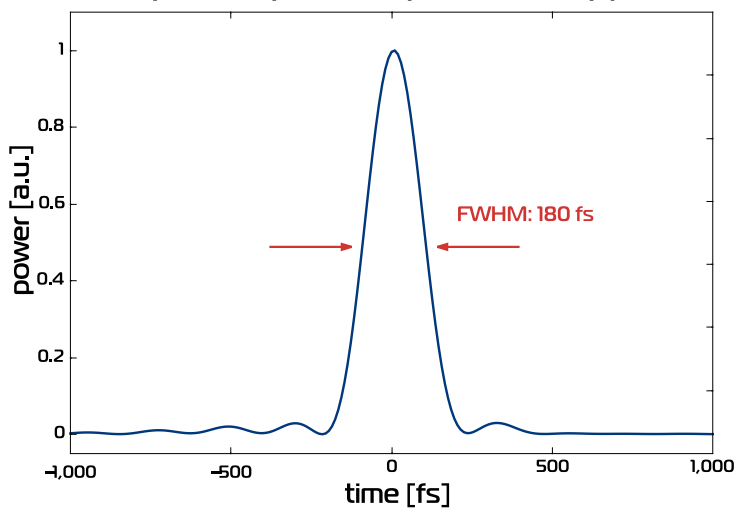
Type of output	FC/APC
Average power	> 20 mW
Pulse energy	> 1 nJ
Repetition rate	20 ± 3 MHz
Pulse duration	< 14 ± 2 ps (chirped)
→ Compressible to	< 200 fs
Central wavelength	1030 ± 5 nm
Spectral bandwidth	16 ± 2 nm FWHM
Beam quality	Single mode output
Polarization	Linear, horizontal

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Physical specification:

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

Compressed pulse temporal intensity profile



All dimensions in mm

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



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