

Genki HP

High power picosecond laser module



Swiss
Made



Cost-effective
picosecond laser with
integrated pulse picker

Genki HP is an industrial-grade, cost-effective, high power, picosecond laser that emits close to transform-limited pulses, provides diffraction-limited beam quality and narrow spectral width. Genki HP comes with an integrated pulse picker and can be operated in burst-mode. Excellent pointing stability in free-space output as well as fiber output are available. Genki HP is a compact, maintenance-free laser module which is packaged in a sealed, robust enclosure. It guarantees high stability and 24/7 operation.



Laser outstanding features:

- Pedestal-free pulses
- Low amplitude noise
- Pulse picker
- Burst-mode
- Maintenance free – no alignment required
- Remote control
- 24/7 operation

Options:

- Green 515 – 532 nm
- UVA 343 – 355 nm
- UVC 258 – 266 nm
- External signal gating
- Adjustable output power

Main applications:

- Material processing
- Microscopy
- Time-resolved spectroscopy
- Supercontinuum generation
- Semiconductor inspection

Picosecond Laser

Genki HP



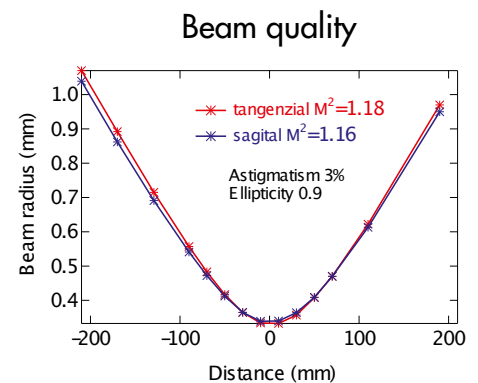
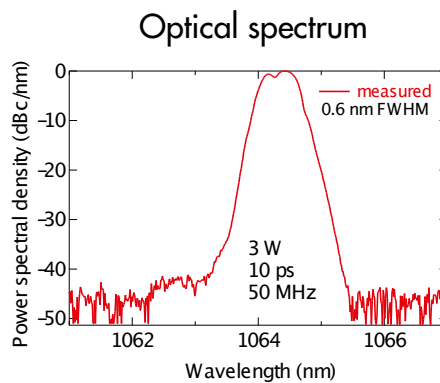
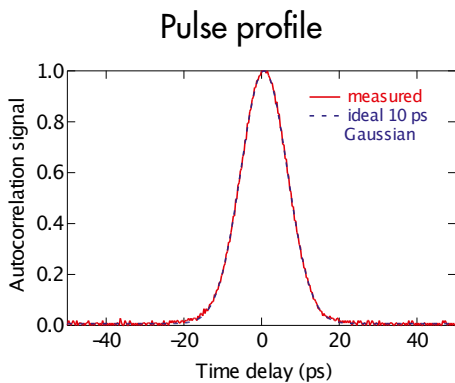
Laser specifications	Genki - 10 HP
Center wavelength	1030 – 1064 nm
Pulse Duration ¹	4 – 45 ps
Avg. output power (up to) ¹	20 W
Pulse energy (up to) ¹	500 nJ
Pulse repetition rate ^{1,2}	single shot – 100 MHz
Spectral bandwidth ²	< 5 nm
Beam quality	$M^2 < 1.2$, TEM ₀₀
PER	> 20 dB
Amplitude noise (24 h)	< 1% rms, < 3% pk-pk
Center wavelength drift (h)	< 0.1 nm pk-pk
Laser output	collimated free space
Environmental	
Warm-up time	< 15 minutes
Operation temperature	18°C – 32°C
Storage temperature	-20°C – 65°C
On/Off cycles	> 10000
Mechanical	
Size laser head ³	125 x 420 x 260 mm ³
Weight laser head ³	15 kg
Size control unit	133 x 483 x 400 mm ³ (19"/3U rack mount)
Weight control unit	7 kg
Electrical	
Power supply	24VDC/9A DC or 90 – 264 VAC, 47 – 63 Hz
Power consumption	< 500 W
Cooling	
Laser head	air cooled
Laser controller	air cooled

IEC Compliant Product
 IEC 60068-2-27:2008
 IEC 60068-2-6:2007
 Shock & Vibration Test
 IEC 60825-1:2014
 Laser Radiation Safety

ISO Certified Company
 ISO 9001 : 2008
 ISO 13485 : 2012



¹ Please inquire for possible combinations of pulse duration, average power and repetition rate
² Spectral bandwidth depends on pulse duration, pulse energy and repetition rate
³ Exact size and weight depend on pulse duration, pulse repetition rate, average power and wavelength



Specifications subject to change without notice, March 2016