



**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, providing 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 is 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**.

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

OUTSTANDING FEATURES :

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



GENKI - 10 HP	
CENTER WAVELENGTH	1030 – 1064 nm
PULSE DURATION ^{1,2}	4 – 45 ps
AVG. OUTPUT POWER [UP TO] ²	20 W
PULSE ENERGY [UP TO] ²	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 WL DRIFT [1 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	24 VDC / 9A DC or 90 – 264 VAC, 47 – 63 Hz
POWER CONSUMPTION	< 500 W
COOLING	
LASER HEAD	air cooled
LASER CONTROLLER	air cooled

¹ Please inquire for possible combinations of pulse duration, average power and repetition rate

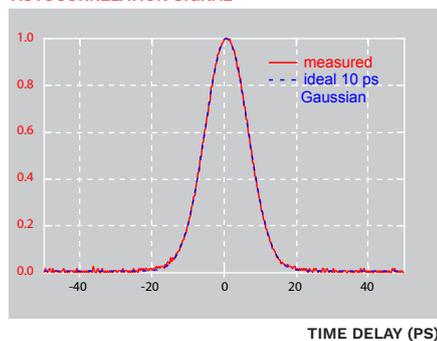
² Spectral bandwidth depends on pulse duration, pulse energy and repetition rate

³ Exact size and weight depend on pulse duration, pulse repetition rate, average power and wavelength



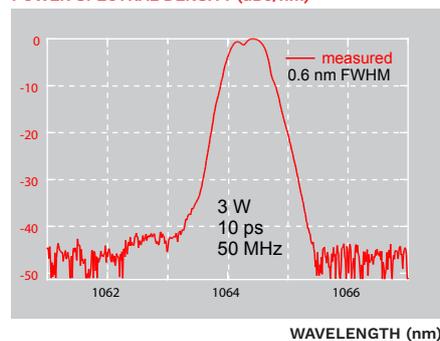
PULSE PROFILE

AUTOCORRELATION SIGNAL



OPTICAL SPECTRUM

POWER SPECTRAL DENSITY (dBc/nm)



BEAM QUALITY

BEAM RADIUS

