

Femtum Nano 2800

Femtum introduces its first pulsed laser for industrial use. This reliable laser produces nanosecond pulses in the microjoule range. Non-metal processing, including semiconductor processing, thin films patterning and polymer welding in the mid-IR is now accessible !



Technical Specifications

Optical ¹	2800-5-25 ²	2800-5-100 ²	2800-30-100 ²
Signal wavelength	2800 (± 20) nm	2800 (± 20) nm	2800 (± 20) nm
Output power	< 125 mW	< 500 mW	< 3 W
Repetition rate	5 kHz	5 kHz	100 kHz
Pulse duration	< 200 ns	< 200 ns	< 200 ns
Pulse energy	~ 25 µJ	~ 100 µJ	~ 100 µJ
M ² (Average of X & Y)	< 1.3	< 1.3	< 1.3

KEY FEATURES

- Compact and turn-key system
- Single-mode output
- High repetition rate & pulse energy
- Fiber delivery cable
- Fast shutter (optional)

System specifications¹

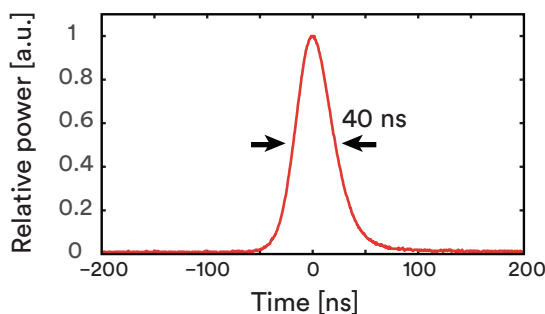
Dimensions (W x H x D)	19 x 5.5 x 20.5 in. (rack-mount, 3U)
Cooling	Air cooling
Voltage	100/240 V AC, 50/60 Hz
Beam delivery	Fiber cable or free space
Controller	Computer-controlled (ethernet com.)

APPLICATIONS

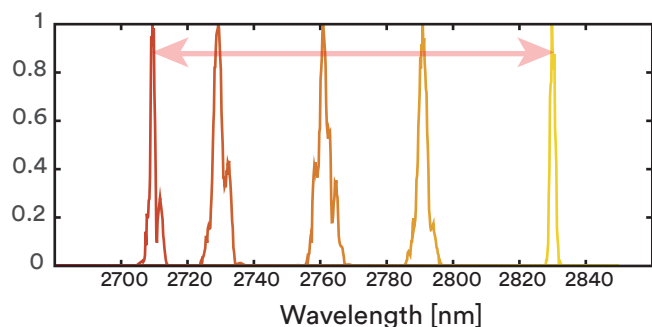
- Semiconductor processing
- Thin-films patterning
- Polymer surface texturing, welding
- Efficient mid-IR pump source
- Tissue ablation

Graphs

Typical pulse shape



Typical spectrum³



¹ Specifications subject to change

² Custom specifications upon request

³ Narrow linewidth option upon request