

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 | 30 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 |

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.) |

KEY FEATURES

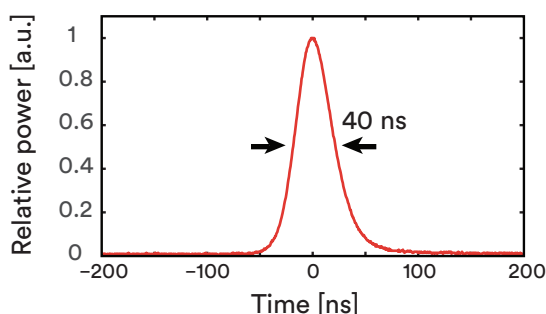
- Compact and turn-key system
- Single-mode output
- High repetition rate & pulse energy
- Fiber delivery cable
- Fast shutter (optional)

APPLICATIONS

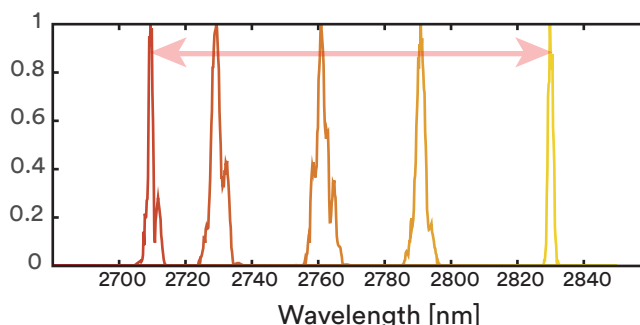
- Semiconductor processing
- Thin-films patterning
- Polymer surface texturing, welding
- Efficient mid-IR pump source
- Tissue ablation

Graphs

Typical pulse shape



Typical spectrum³



¹ Specifications subject to change

² Custom specifications upon request

³ Narrow linewidth option upon request