

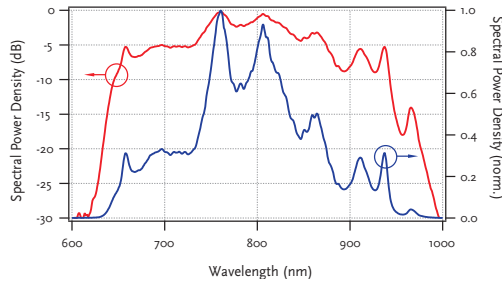
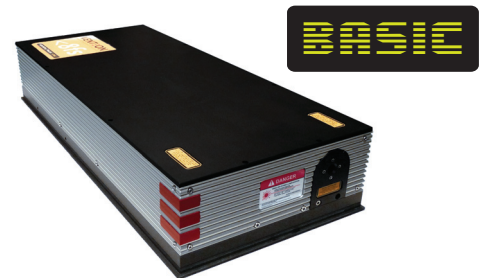
Femtosecond Ti:Sapphire Laser Systems

_ Basic

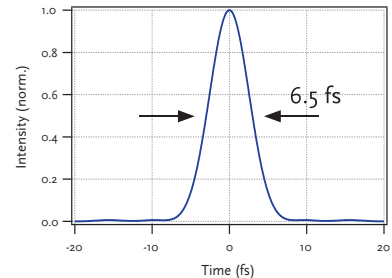
- ▶ The VENTEON | PULSE : ONE Basic Edition is now available as compact all-inclusive system, offering you a low-priced, robust laser source for ultrashort pulses < 8 fs on a compact footprint of only 260 x 600 mm².
- ▶ Based on the specifications of the Basic Edition oscillator, the new design is optimized for a low pump threshold and incorporates a 3 - 4 Watt DPSS pump laser without umbilical cable. The opto-mechanical components are directly attached to a solid, all-monolithic base plate where the number of adjustable components was reduced to the minimum. This makes the complete system very robust, portable and easy to set-up.
- ▶ The new VENTEON | PULSE : ONE BASIC laser system is ideally suited for applications such as microscopy, spectroscopy or pump-probe experiments which require a robust, simple and turn-key femtosecond source for ultrashort pulses with moderate average output power.

▶ Specifications

- Spectral bandwidth > 200 nm
- Pulse duration < 8 fs
- Average output power > 200 mW
- Pulse energy > 2 nJ
- Repetition rate: 80 MHz
- RMS noise < 0.5 %
- **Integrated DPSS pump laser**



▶ VENTEON | PULSE : ONE BASIC spectrum shown on a logarithmic (red graph) and linear (blue graph) scale.



▶ Fourier-limited pulse supported by the VENTEON | PULSE : ONE BASIC, featuring a pulse duration below 8 fs.

▶ Technical Data

- Novel monolithic, "rock solid" design for an exceptional long-term stability and hands-off operation.
- Prepared breadboard for a water-cooling option allowing improved thermal management for reliable operation even in extrem environmental conditions.
- Dimensions: 608 x 268 x 117 mm³
- Robust external KLM starter
- Water chiller included (optional)
- Weight: ~40 kg (~166 lbs)
- Beam height: 76.2 mm (3 inch)

