

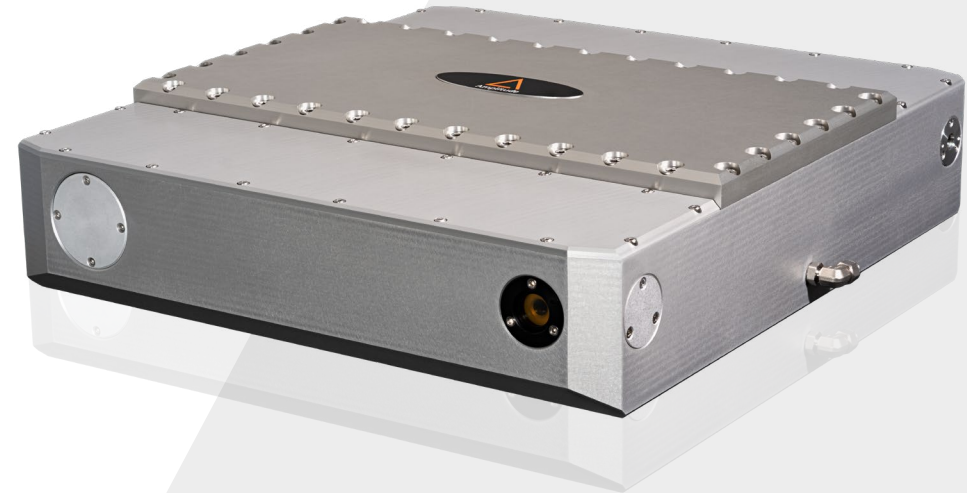
COMPRESS

Industrial pulse compression extension

The result of several years of intensive research and development efforts, Amplitude's Compress pulse shortening extensions reduce pulse durations beyond the intrinsic capabilities of all other laser systems in the market.

The patented design of Compress delivers the highest throughput efficiency, preserves exceptional beam quality, and provides pristine short and long term stabilities.

Compatible with our entire product range, Compress enables users to apply novel and unique approaches to material processing as well as explore ultrafast phenomena at unprecedented repetition rates and uptime with few-cycle time resolution.



Applications

Industry:

- > Micromachining

Science:

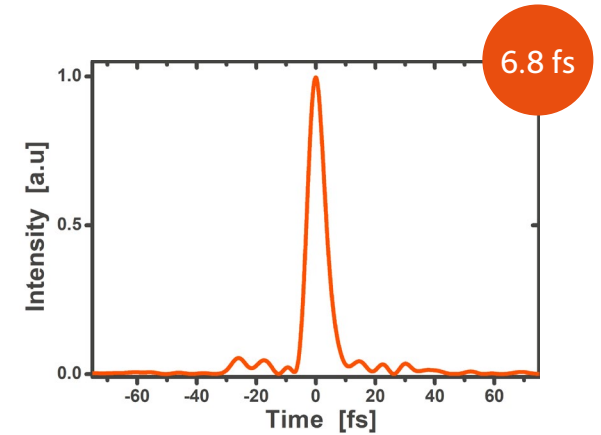
- > Ultrafast Spectroscopy
- > High harmonic generation
- > Attoscience

Key Features

- > Few-cycle pulses
- > Ultra-high efficiency
- > 1030 nm and 515 nm operation
- > Industrial design for 24/7 operation

Specifications

| | Compress 10 | Compress 50 |
|--------------------------|-------------------------------|-------------------|
| Input Average Power | Up to > 100 W | |
| Input Energy | Up to > 2 mJ | |
| Input Pulse Duration | < 150 fs to 1 ps | |
| Operation Wavelength | 1030 nm and 515 nm | |
| Repetition Rate | from single shot up to 40 MHz | |
| Throughput | up to > 80% | up to > 50 % |
| Compression Ratio | up to > 10 | up to > 50 |
| Output Pulse Compression | down to < 20 fs | down to few cycle |
| Long Term Stability | < 1% rms over 100 hours | |



Sub-two cycle pulse generation with COMPRESS 50

Compatibility



Satsuma



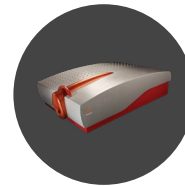
Yuja



Tangerine



Tangor



s-Pulse