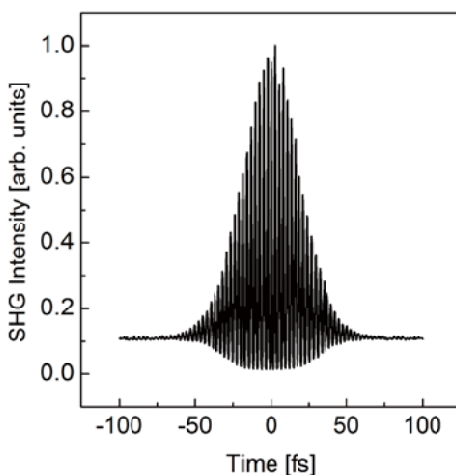


Diffractive Pulse Shaper

- Measures and compresses pulses in seconds
- Uses the MIIPS[®] auto-calibration and auto-compression technology
- Complete pulse shaping solution (includes computer, spectrometer and nonlinear optical detection)
- Enhanced power handling due to cylindrical-optics-based design
- Reflective and diffractive shaping modes



Push-button interferometric autocorrelation

Eliminate Manual Tweaking

With Push-Button Pulse Characterization

Includes the MIIPS[®] technology:

MIIPS[®] is an automated procedure for measurement and compression of optical pulses. It uses a calibrated pulse shaper to introduce a set of reference phase functions and monitors their effect on spectrally resolved nonlinear response such as second harmonic generation.

Mathematical analysis of the recorded spectra provides a direct measurement of high-order pulse dispersion. The measured spectral phase can be compensated by the pulse shaper to compress the laser pulses to their transform limit at the target, without manual tweaking.

System Specifications

SLM type	2D array, LCOS
Pixel pitch	20 μm
Number of pixels	792
Number of independent control channels [^]	~400
Operating wavelength range [*]	400 - 1550 nm
Spectral window ^{&}	up to 200 nm
Maximum input average power ^{&}	1-2 W
Maximum input pulse energy ^{&}	1-2 mJ
Recommended $1/e^2$ beam diameter	7-8 mm
Input polarization	linear, horizontal
Dimensions L x W x H	451 x 213 x 210 mm (17.75 x 8.375 x 8.25 in.)

Shaping of spectral phase and amplitude[#], independent of the laser repetition rate.

[^] Depends on the input beam size.

^{*} Several SLM types are available across the specified range; see the Table below for details.

[&] Depends on the back-mirror type and the center wavelength; customized to fit the laser source.

[#] Diffractive shaping mode is used to achieve the amplitude control.

Table. Back-mirror types and operating ranges for Hamamatsu LCOS-SLM X10468.

