PHASETECH
spectroscopy shaping science

QuickShape Visible
FLEXIBLE VISIBLE PULSE SHAPER

QuickShape Visible is a powerful visible and near-IR pulse shaper that has been designed and engineered for flexibility and ease of use.

Shot-to-shot operation at up to **100 kHz** for high signal-to-noise experiments with the latest high-repetition-rate lasers.
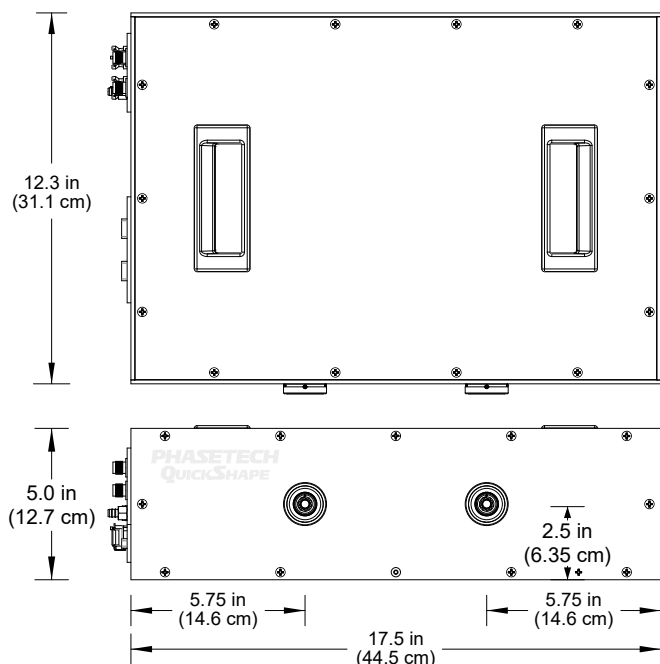
CAPABILITIES & FEATURES

- Shot-to-shot scanning
- Easy-to-use software with advanced features
- Phase cycling & rotating frame
- Create exponential, reverse-exponential pulses, Gaussian and double pulses
- GVD and TOD correction
- Generate your own custom pulse shapes
- User-adjustable spectral resolution

APPLICATIONS

- Time-domain 2D Visible
- Frequency-domain 2D Visible
- Transient 2D Visible
- Coherent control
- Transient absorption spectroscopy
- Rapid-scan optical delay line

SPECIFICATIONS

Standard AR Coating (other wavelength ranges are available upon request)	450 - 900 nm
Spectral Window	Adjustable (see examples below)
Spectral Resolution	Adjustable (see examples below)
Effective Pixels[1]	> 700
Repetition Rate[2] (higher repetition rate posssible for some applications)	≤ 100 kHz
Input Polarization	Linear, Horizontal
Input Beam Size (1/e^2)	4.5 mm, collimated
Approximate Size	12.3 x 17.5 x 5 in (31.1 x 44.5 x 12.7 cm)
Material Thickness	10 mm (~7700 fs^2 @ 650 nm)

Example with 1200 g/mm gratings centered at 675 nm	
Spectral Window	155 nm
Spectral Resolution	0.20 nm
Max. Double Pulse Delay[4]	3900 fs

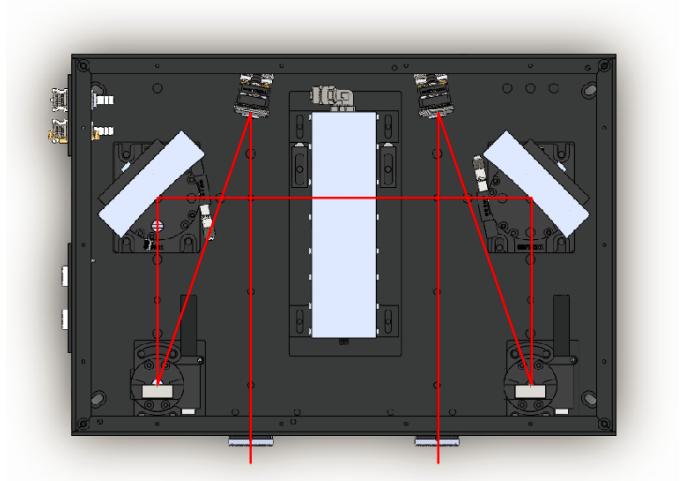| Example with 900 g/mm gratings centered at 790 nm	
Spectral Window	215 nm
Spectral Resolution	0.30 nm
Max. Double Pulse Delay[4]	3800 fs

[1] See our website for more about how the effective pixel size is measured.
[2] Maximum repetition rate with use of minimum aperture size, repetition rate with full aperture depends on gratings used.
[3] Estimated. Depends on gratings and wavelength.
[4] Calculated based on effective pixel size with gratings specified.

We can tailor the spectral resolution & window to your application

12.3 in (31.1 cm)

5.0 in (12.7 cm)

PHASETECH QUICKSHAPE

2.5 in (6.35 cm)

5.75 in (14.6 cm)

5.75 in (14.6 cm)

17.5 in (44.5 cm)

PHASETECH QuickShape Visible

ADDITIONAL INFORMATION

INCLUDES

- Advanced Arbitrary Waveform Generator - load & cycle through over 79,000 pre-defined pulse-shape
- Detailed User Manual
- LabView™ Control VIs
- QuickControl Software Package
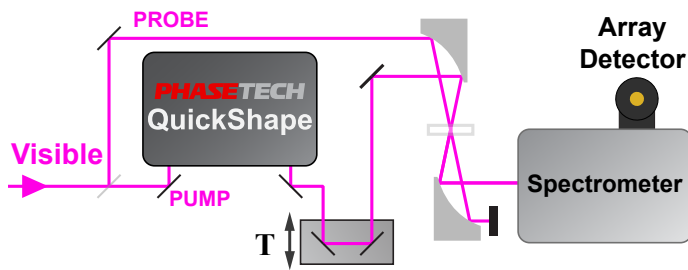- Enclosure
- Control Computer

Advanced parabolic mirrror design!   Simple layout - easy to align!
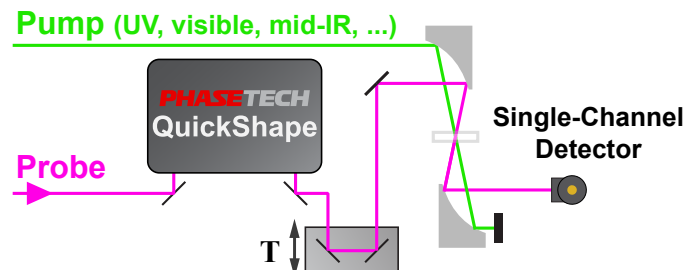
Motorized rotation stages for wavelength tuning!

EXAMPLE LAYOUTS

2D Visible

Pump-Probe Spectra
(without a monochromator)

OTHER PRODUCTS

QuickShape IR   POWERFUL MID-IR PULSE SHAPER

2DQuick Visible   FAST & POWERFUL 2D IR SPECTROMETER

2DQuick IR   HIGH-REPEITION RATE 2D VISIBLE SPECTROMETER

see our website for more information on these products
phasetechspectroscopy.com