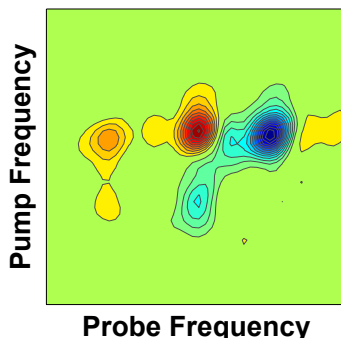


2DQuick IR

FAST & POWERFUL 2D IR SPECTROMETER

2DQuick IR is designed to collect high-quality 2D IR spectra using an array detector. The spectrometer uses mid-IR pulse shaping technology and array detection with a monochromator for fast data collection with high signal-to-noise.

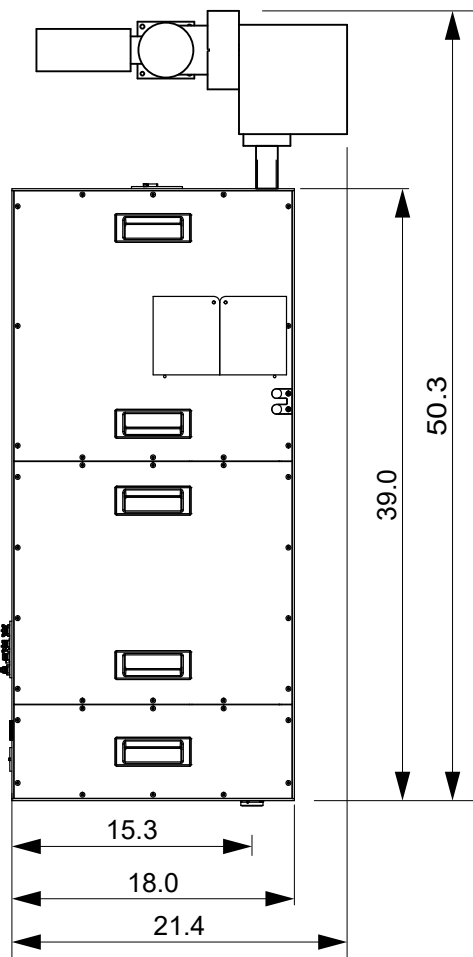


Now available with a next-generation
128x128 pixel MCT detector

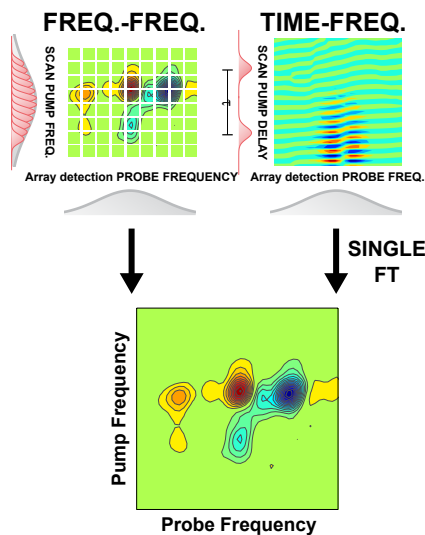
CAPABILITIES & FEATURES

- Measure mid-IR pump-probe kinetics
- Design custom pulse sequences
- Complete control and transient data acquisition software package
- Reference beam for background correction and greater signal-to-noise with dual-channel detectors
- Capatible with our Transient actinic pulse delay module

**Fast, flexible,
& easy to use**



Dimensions in inches



Pulse shaping technology provides our spectrometers with powerful flexibility.

Tailor your 2D IR experiment to your needs by scanning the pulses in time or frequency:

Use time-domain collection to improve time and spectral resolution,

Use frequency-domain collection to improve signal-to-noise

With the 2DArray, you can switch between different acquisition modes simply through software.

collects a **2D IR** spectrum
in less than **1 second***

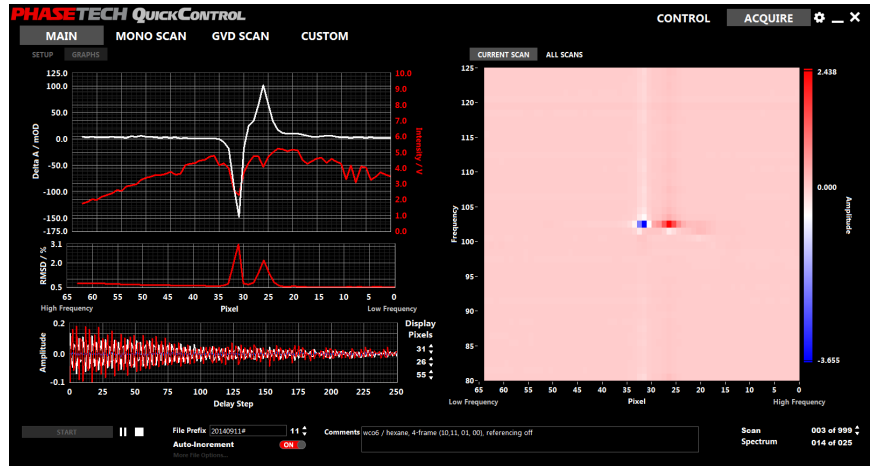
Shown with 150 mm monochromator and 128x128 pixel detector. Other options are also available.

* Minimum acquisition time for a single 2D IR spectrum. Averaging of multiple one-second spectra will generally be required for desired signal-to-noise.

ADDITIONAL INFORMATION

PhaseTech's user-friendly software makes it easy to collect 2D IR spectra while also providing advanced functionality.

- Use built-in phase cycling and rotating frame schemes or design your own
- Switch between experiments with the click of a button



OPTICAL LAYOUT

GENERAL

Repetition Rate	≤ 100 kHz
Recommended Pulse Energy	≥ 8 μJ
Input Polarization	Linear, Horizontal
Input Beam Size (1/e ²)	7 mm, collimated
Pump-Probe Delay	> 150 ps

DIMENSIONS

Base Dimensions	18.0 x 39.0 x 6.3 in (45.7 x 99.1 x 16.1 cm)
With Monochromator & Detector	approx. 49.8 x 21.4 x 9.5 in (approx. 127 x 54 x 24 cm)

(other monochromator and detector options are also available)

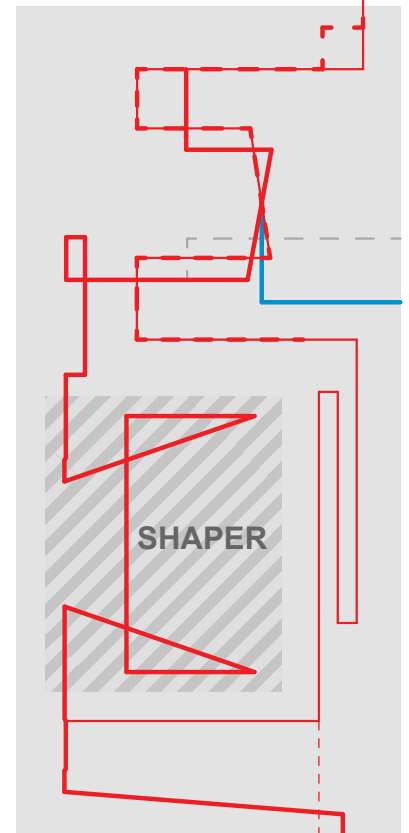
SHAPER

Standard AR Coating	3.0 - 12.0 μm (833 - 3333 1/cm)
(other wavelength ranges are available upon request)	
Spectral Window ¹	> 1.5 μm at 5.5 μm
Spectral Resolution ¹	< 5 1/cm at 5.5 μm
Maximum Double Pulse Delay ²	> 5 ps ¹ at 5.5 μm

¹ Specification is based on our standard gratings and an input diameter of 7 mm. Other gratings are available upon request or can be provided by the user.

² Calculated based on effective pixel size with standard gratings.

TO SPECTROMETER
AND DETECTOR



— PUMP
— PROBE
- - REFERENCE*

- - ALT PROBE
— UV/VISIBLE*
- - ALT OUTPUT*
* OPTIONAL

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