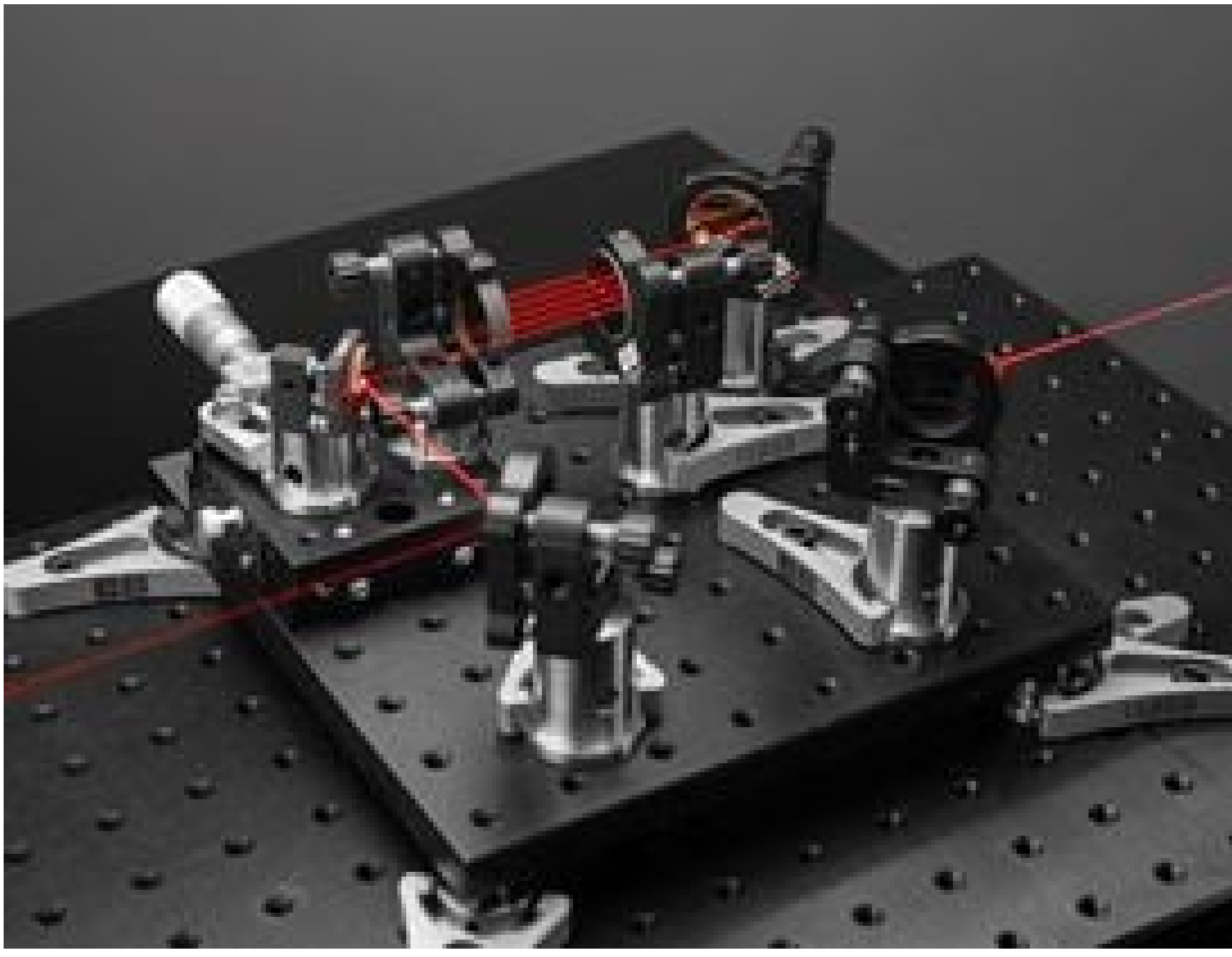
Variable Ultrafast Compressor and Stretcher Kit



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SPECIFICATIONS

General

Contents of Kit:

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Regulatory Compliance

Certificate of Conformance:

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PRODUCT DETAILS

- Negative Group Delay Dispersion as Low as -10,000fs^2 with Minimal Third Order Dispersion
- Positive Group Delay Dispersion as High as 4000 fs^2 with Minimal Third Order Dispersion
- Compatible with UV, VIS, and IR Ultrafast Lasers

The Variable Ultrafast Pulse Compressor and Stretcher Kit provides an easy, low-cost framework for a customizable ultrafast dispersive system. This kit includes the necessary optomechanics and requires user selected dispersion compensating mirrors depending on the application. Designed to be easily aligned and bidirectional with precision mounting hardware, options are available to cover most common ultrafast laser lines including Ti:Sapphire, Yb-doped Fiber Lasers, UV, and Mid-IR Lasers. Once aligned, the Variable Ultrafast Compressor and Stretcher Kit is portable and can be shared among multiple laser setups serving as a drop-in solution for variable dispersion compensation. This kit is ideal for dispersion compensation and pulse recompression in applications such as multi-photon microscopy and ultrafast micro-machining.

TECHNICAL INFORMATION

Type	Spectral Range	Wavelength Range (nm)	GDD Specification (fs^2)	GDD Increments (fs^2)	Required Mirrors
Compressor	Broadband	600 - 950	-200 to -50	-50	1x**#17-064** 3x**#13-060** 1x**#13-059**
Compressor	Broadband	650 - 1350	-240 to -60	-60	1x**#14-674** 3x**#39-208** 1x**#39-194**
Compressor	UV	255 - 277	-1160 to -300	-290	2x**#17-066** 3x**#11-735** 1x**#11-734**
Compressor	Ti:Sapphire	780 - 830	-10400 to -2600	-2600	2x**#12-331** 3x**#26-830** 1x**#26-829**
Compressor	Near-IR	1010 - 1050	-8000 to -2000	-2000	2x**#17-070** 3x**#26-836** 1x**#26-835**
Compressor	Near-IR	1000 - 1060	-4000 to -1000	-1000	2x**#12-333** 3x**#26-836** 1x**#26-835**
Compressor	Near-IR	950 - 1120	-1600 to -400	-400	2x**#12-328** 3x**#17-265** 1x**#17-264**
Compressor	2µm	2000 - 2200	-8000 to -2000	-2000	2x**#11-414** 3x**#39-208** 1x**#39-194**
Stretcher	Ti:Sapphire	700 - 1000	200 to 800	200	2x**#17-069** 3x**#13-060** 1x**#13-059**
Stretcher	Near-IR	800 - 1100	200 to 800	200	2x**#17-069** 3x**#17-265** 1x**#17-264**
Stretcher	Mid-IR	200 - 3600	1000 to 4000	1000	2x**#17-063** 3x**#39-208** 1x**#39-194**