FEMTOCHROME® RESEARCH, INC.

2123 4th Street, Berkeley, CA 94710
Tel: 510-644-1869, Fax: 510-644-0118
e-mail: tech@femtochrome.com; http: www.femtochrome.com

FR-103HP

RAPID SCANNING AUTO/CROSSCORRELATOR

Specifications:

- Sensitivity: 10^{-2} W^2
- Resolution: ~1 fs
- Wavelength Range: 410-5000nm
- Scan Range: > 60 ps
- Rep Rates: >1kHz (>5Hz w/CDA)

Options:

- Free Space/Fiber Coupled (/FA)
- Noncollinear/Interferometric (/IO)
- Crosscorrelation Option (/CC)
- Computer Data Acq. Option (/CDA)

The FR-103HP is a compact NL crystal autocorrelator, suitable for high power lasers (P_{av}>5mW). It is available with a scan range >60ps (suitable for pulsewidths within 10fs-15ps) and covers a wide range of wavelengths with easily interchangeable plug-in detector modules. The standard FR-103HP provides 'real-time' pulsewidth monitoring capability for rep rates down to 1kHz. Pulsewidths from lower rep rate lasers are monitored and analyzed on a PC display, utilizing the /CDA option. Fiber coupled lasers can be input using the /FA option, providing for alignment free operation. The standard noncollinear configuration, leading to background-free autocorrelation with high dynamic range, can easily be changed to fringe-resolved operation with the Interfometric Option (/IO). Crosscorrelation of two synchronized beams can be readily obtained using the /CC option.