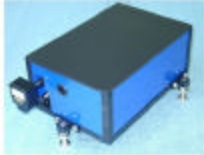

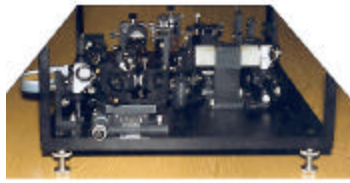
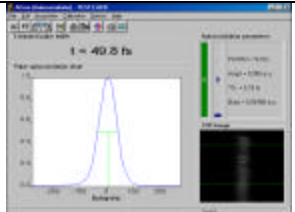
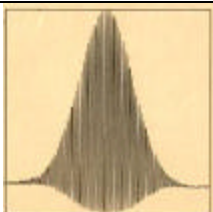
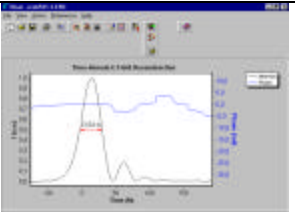


Femtosecond Autocorrelators

| | Sciner ASF-20* | Sciner AA-10D | SPIDER | |
|---|---|--|---|------------|
| | | | SP-30 | SP-120 |
| |  |  |  | |
| Type | Single Shot Autocorrelator | Scanning Real-Time Autocorrelator | Spectral Analysis | |
| Physical phenomena used | Non-collinear SHG in non-linear crystal | Collinear two photon absorption (TPA) photocurrent in the semiconductor | Spectral Phase Interferometry for Direct Electric field Reconstruction | |
| Pulse width | 20-500fs | 10fs - 6ps | 10 – 30fs | 30 - 120fs |
| Input pulse repetition rate: | | | | |
| Single Shot | Single Shot 1-10Hz | N/A | Single Shot | |
| Multiple Shot | >10Hz Multiple Shot Mode | 10kHz to CW modelocked | 1kHz to CW modelocked | |
| Input pulse energy at repetition rate: 1 – 10Hz > 1 kHz > 10 MHz or minimum power | >500nJ >50nJ >50pJ | Min. Average Power 1mW at 100MHz | 0.01mJ at Single Shot Min. Average Power 100mW at 100MHz | |
| Input polarization | Linear – horizontal (vertical – optional) | Linear – horizontal (vertical – optional) | Linear – horizontal (vertical – optional) | |
| Wavelength range, nm | 700 – 1000nm other ranges optional | 700-1000nm (1000-1400nm optional) | 740-880nm other ranges optional | |
| Readout | CCD | External oscilloscope | CCD | |
| PC interface | USB | - | USB | |
| |  |  |  | |
| Dimensions, mm | 320x160x160 | optical unit 170x134x105 control unit 80x190x250 | 600x 350x 180 | |
| Weight, kg | 3.5 | 4 | 9 | |
| Power supply | From PC interface | 100-110V/60Hz (220V/50Hz) | From PC interface | |

*Model ASF-20F has a pulse front tilt monitoring feature

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