

PRODUCT CARD



ULTRA NARROW LINEWIDTH, CW TI:SAPPHIRE

Tuning range 670 - 1050 nm
Amplitude noise <0.1% rms
Narrow linewidth <50 kHz
Average power Up to 5 W

Atomic, molecular and optical physics (AMO) High-resolution spectroscopy Advanced metrology and characterisation

SPRITE XT

TUNABLE, ULTRAFAST TI:SAPPHIRE

Tuning range 720 - 980 nm
Pulse duration <150 fs
Average power >1.5 W
Repetition rate 80 MHz

Multi-photon excitation (MPE) and FLIM Quantum optics Time resolved spectroscopy



MODE-LOCKED, SEMICONDUCTOR LASER

Wavelength range 910 - 1050 nm

Pulse duration <200 fs up to 40 ps

Average power Up to 1 W

Pulse repetition rate 200 MHz

Multi-photon excitation (MPE) FLIM and CARS microscopy Materials processing

SOLSTIS EXTENSIONS



VISIBLE SHG CAVITY

Tuning range 340 - 525 nm
Amplitude noise <0.2% rms
Linewidth <100 kHz
Power Up to 2.5 W



VISIBLE & UV FREQUENCY MIXING MODULE

Tuning range 300 - 350 nm, 480 - 670 nm, 1.1 - 4.5 μm

Amplitude noise <0.5% rms
Linewidth <0.5 MHz
Power Up to 1 W



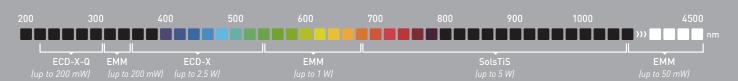
UV SHG CAVITY

 Tuning range
 210 - 300 nm

 Amplitude noise
 <0.5% rms</td>

 Linewidth
 <0.5 MHz</td>

 Power
 Up to 200 mW



COMPACT, FULLY AUTOMATED AND EASY TO CONTROL

Laser operations are fully automated via a unique web interface allowing systems to be controlled, updated and maintained from anywhere in the world. Easily integrated with lab tools and experiments via TCP/IP command sets. Diode drivers, quantum cascade laser diode drivers and temperature controllers also available.



MID INFRARED

FIREFLY-IR

TUNABLE, PULSED MID-IR OPO

1.5 - 1.8 μm, 2.5 - 4.5 μm Tuning range

Power Up to 250 mW

Pulse duration <10 ns

Pulse repetition rate 130 - 300 kHz

Molecular spectroscopy and chemical sensing Spectroscopy and microscopy of nanomaterials Remote detection (threat agents and hydrocarbons)

FIREFLY-IR (LW)



TUNABLE, PULSED LW IR OPO

Tuning range 5.6 - 8.5 µm Power >80 mW Pulse duration <50 ns Pulse repetition rate 20 kHz

Molecular spectroscopy and chemical sensing Spectroscopy and microscopy of nanomaterials Remote detection (threat agents and hydrocarbons)

FIREFLY THZ



TUNABLE. PULSED THZ OPO

0.8 - 2.5 THz Tuning range Average Power ~450 nW Pulse duration <30 ns Pulse repetition rate 50 Hz

THz spectroscopy and imaging Non destructive testing (NDT) Biomedical diagnostics





