

### **PRODUCT CARD**

## **NEAR INFRARED** SOLSTIS

#### **ULTRA NARROW LINEWIDTH, CW TI:SAPPHIRE**

Tuning range 670 -1050 nm Amplitude noise < 0.075% RMS Narrow linewidth <50 kHz Up to 10 W Average power

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

#### **SPRITE XT**

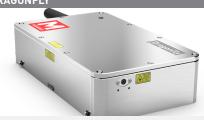


#### TUNABLE, ULTRAFAST TI:SAPPHIRE

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

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

#### DRAGONFLY



#### MODE-LOCKED, SEMICONDUCTOR LASER

Wavelength range 910 -1050 nm Pulse duration <200 fs up to 40 ps Up to 1 W Average power Pulse repetition rate 200 MHz

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

#### **SOLSTIS EXTENSIONS**

### ECD-X



#### **VISIBLE SHG CAVITY**

340 - 525 nm Tuning range <0.15% RMS Amplitude noise Linewidth <100 kHz Power Up to 4 W

#### **EMM**



#### **VISIBLE & UV FREQUENCY MIXING MODULE**

300 - 350 nm. 500 - 680 nm. Tuning range 1.1 - 4 µm

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

#### ECD-X-Q



#### **UV SHG CAVITY**

210 - 300 nm Tuning range <0.5% RMS Amplitude noise Linewidth <0.5 MHz Power Up to 200 mW

#### 200 300 400 500 600 700 800 900 1000 ECD-X ЕММ ECD-X-Q **EMM** SOLSTIS **EMM** Up to 200 mW Up to 200 mW Up to 4 W Up to 1 W Up to 10 W Up to 30 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.



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## FIREFLY-IR

#### TUNABLE, PULSED MID-IR OPO

Tuning range 1.5 - 1.8 μm, 2.5 - 4.5 μm

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 Average Power ~30 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**

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

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











#### USA - WEST COAST

#### UK - LONDON

#### USA - EAST COAST