

# Innovation Starts Here

Lasers & Detectors | Systems & Software  
Product Catalogue



**WAVELENGTH**  
**OPTO-ELECTRONIC**

[wavelength-oe.com](http://wavelength-oe.com)



**Lasers by Cobolt & Hubner Photonics**

355nm - 4330nm

VIS/NIR Tunable Lasers

Fiber/Diode/Single Frquency/DPSS Lasers

Narrow Linewidth/Q-Switched/Multi-Line Lasers



**Lasers by Access Laser**

5.2 $\mu$ m - 11.4 $\mu$ m

500mW - 50W



**Femtosecond Fiber Lasers by MenloSystems**

780nm - 1560nm

Erbium/Ytterbium/Fiber



**Tunable Semiconductor Lasers**

765nm - 1090nm



**Ultrashort Pulse Lasers by Amphos**

343nm - 1030nm

200mW - 1000W

**Spectrometer by StellarNet**

200nm -2300nm



**Chemical & Gas Detection by Block Engineering**

LaserWarn Outdoor/Indoor



**Avalanche Photodiodes by LASER COMPONENTS**

Silicon/InGaAs APD

APD Array/Receiver/Module

Flash LiDAR Sensor

SPAD Evaluation Board



**Photon Counters by LASER COMPONENTS**

350nm - 1000nm

10/20/50/100/250/500 counts



**Laser Diode Drivers by Wavelength Electronics**

500mA - 2.2A





### Temperature Controllers by Wavelength Electronics

500mA - 2.2A



### Wavefront Sensors by Imagine Optics

400nm - 1700nm



### Fiber Optics Components by OZ Optics

Digital Variable Attenuators

Polarization Maintaining Pigtail Collimator

Single Mode Fiber Fused Coupler/Splitter

Polarization Maintaining Matchcord



### Hyperspectral Camera by Phase Photonics

HyperSight

NIRsight

FineSight

RapidSight



### Laser Metrology by LASERPOINT

Energy & Power Meter

Beam Profiler

**Automated Optics Inspection Machine by OptiSpec**

Manual/Auto  
Regular/Small/Micro Size



**Laser Calorimetry**

9.4μm - 10.6μm  
~10W



**Spectrophotometer by Essent Optics**

185nm - 5200nm



**Synchronization & ASOPS System by MenloSystems**

780 nm - 1560 nm  
100 MHz- 250 MHz



**Terahertz Systems by MenloSystems**

> 3 THz - > 6 THz  
> 60 dB - 95 dB





**Optical Frequency Combs by MenloSystems**

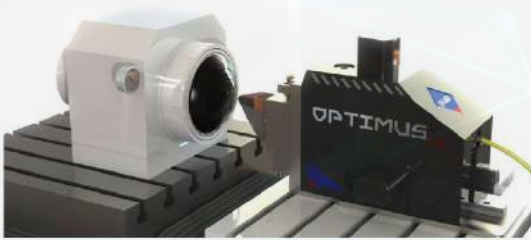
250 MHz



**MTF Test Bench**

Visible MTF Test Bench

Infra-Red MTF Test Bench



**Diamond Turning Laser Assisted Tools by Micro-LAM**

Silicon/Germanium/Zinc Sulphide/Zinc Selenide

Calcium Fluoride/Magnesium Oxide/Tungsten Carbide.



**Solar Cells & OLEDs by Fluxim**

Organic/Perovskite/Quantum Dot/Micro-LEDs

QD-Films LCDs

Organic/Inorganic/Perovskite PVs

Photodetectors



**Laser Doppler Vibrometer**

< 10µm - 250 µm Spot Size

2m/5m/10m Fiber Length



**Terahertz Imager by Hubner Photonics**

1000-3000 Envelopes Per Hour

50 Hz - 60 Hz



**Optical Metrology**

Autocollimator & Centration Measuring Instrument

Focometer & Goniometer



**Automatic Thickness Measurement**

< 15mm Thickness

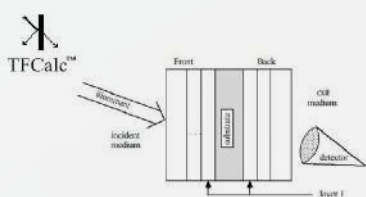
150mm x 150mm



**VirtualLab Optics Software**

Light Shaping & Optical Metrology

Imaging Systems & Laser Systems



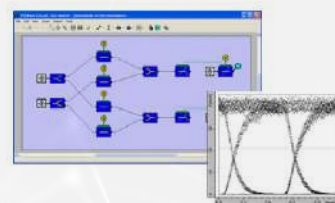
**Thin Film Coating Software**

Maintain Design Symmetry

Minimise Merit Function

Needle Optimisation

Computes EFI/Coating Layer Sensitivity



**Photon Design Software**

2D/3D

Passive Component Design

Active Component Design

Photonic Circuit Design



- > **19 years** of establishment since 2002
- > **7 offices** across the world
- > **1000 customers** served globally

Wavelength Opto-Electronic (S) Pte Ltd is ISO 9001 certified since 2004, with our core business in optics design and manufacturing laser optics, optical modules, complex system customisation and LVHM rapid prototyping.

We manufacture industrial laser machine process heads for the international laser application market. We also collaborate in extensive research and development, developing small-to-large scale customised complex optical systems and provide QA/QC metrology solutions for customers in the international market and Singapore.

### Core Values

- Innovation
- Teamwork
- Excellence
- Customer Focus

### Optical Lenses

### Services

- Optical Lens Design & Fabrication
- Customised Coating
- Electrical & Mechanical Customisation
- Optics & Lab Setup



### Infrared Optics

- SWIR/MWIR/LWIR Lens
- Athermal Lens
- IR Zoom Lens
- IR Objective Lens
- Mid-IR Borescope Lens
- Fisheye Lens
- Sniperscope Lens
- IR Focusing/Aspheric Lens
- IR Window/Filter

### Laser Optics

- F-Theta Scan Lens
- Beam Expander
- Optomechanical Component
- Laser Cleaning/Cutting/Welding Head
- Laser Rangefinder
- Focusing Lens
- Optical Mirror/Window/Filter
- Dichroic Optics
- Laser Accessory

### UV & Vision Optics

- UV Lens
- Vision Lens
- Vision Camera
- Vision Lighting
- Objective Lens
- Borehole Lens
- Optical Prism
- Eyepiece
- Micro Camera





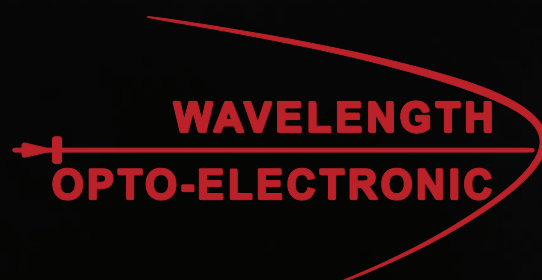
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