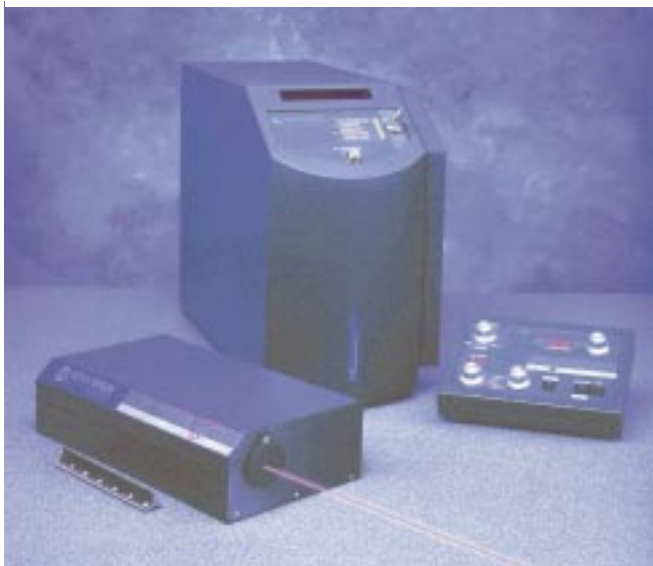


The Latest NEWS



TEMPEST Nd:YAG Laser Systems

- High Power: >200mJ @ 1064nm; 100mJ @ 532nm; 50mJ @ 355nm; 30mJ @ 266nm
- 10, 20 & 30 Hz options
- Compact
- Easy-to-use
- Economical Price



Tempest is a compact, cost-effective, high performance pulsed Nd:YAG laser system. Tempest combines reliability and efficiency with high power. Like all New Wave lasers they have superb beam quality characteristics combined with low divergence and excellent energy stability.

For Application Examples of New Wave Research lasers see their website <http://www.new-wave.com>

New Wave Research design and manufacture high performance pulsed Nd:YAG laser systems. The company applies its extensive experience in solid-state lasers, optics and beam delivery systems to supply robust, reliable and compact laser systems to the industrial, scientific and OEM markets.

MiniLase Systems Pulsed Nd:YAG Lasers

MiniLase systems are high-performance, flexible and extremely compact flash-lamp pumped Nd:YAG laser systems. They feature exceptional beam quality and energy stability in a small package that is easy to set up and operate.

- Single shot
- Variable repetition rate
- Line synchronised rate
- External firing control
- Motorised optical attenuator option
- 240v single phase power
- Remote control for all system functions



Pulse Energy	1064nm	532nm	355nm	266nm
MiniLase I -10/20Hz	>28mJ	>12mJ	>3mJ	>2mJ
MiniLase II -10/20/30Hz	>50mJ	>25mJ	>7mJ	>5mJ
MiniLase III -10Hz	>90mJ	>50mJ	>11mJ	>10mJ

MiniLase PIV & Gemini PIV

Particle Image Velocimetry (PIV) uses two-pulse illumination to measure particle velocity. New Wave Research offers complete PIV configured lasers comprising dual head, multiple trigger capability with stable pulsed green output up to 120mJ at 532nm.



Wavetek Wandel & Goltermann

In October 1998, Wandel & Goltermann and Wavetek Corporation merged to form the world's second largest communications test company

WG OSA-155

- Spectrum and WDM parameter analysis
- 1450-1650 nm
- 50GHz channel spacing or higher
- Wavelength
- Power
- Signal to Noise ratio
- Portable
- Touchscreen operation

DWDM System Analyser



The recently introduced OSA-155 DWDM System Analyser is suitable for all DWDM applications with spacing of 50GHz/0.4nm or higher. The unit itself is rugged and portable (<9kg), giving fast and complete DWDM system analysis of accurate wavelength, power and signal to noise ratio measurements.

An internal wavelength reference guarantees high wavelength measurement accuracy of $\pm 0.04\text{nm}/\pm 5\text{GHz}$ with readout resolution of 0.005nm/0.6GHz. The system can measure up to 100 channels simultaneously with a sweep time of 2 seconds. It can be operated remotely via modem or LAN.

There are three main operating modes:

- SPECTRUM** Full spectral graphic display with zoom, cursor and marker capabilities
- WDM SYSTEM** Tabular (16 channel scrolling) display of wavelength, optical power, OSNR and parameter deviations
- PREFILTER** Monitor output for further channel signal analysis (bit errors, jitter/wander, pointer etc)



FiberPro provide innovative fibre optic components. These include tuneable & fixed couplers, polarisation controllers, modulators, optical tuneable filters, fibre optic interferometers and Lightwave Equalisers for dynamic gain flattening of EDFAs

Polarisation Scrambler



The FiberPro Polarisation Scrambler Model PS is a rugged low loss scrambler providing fast polarisation scrambling. This instrument operates independently of input polarisation state.

The Model PS is suitable for the following applications:

- Long-haul transmission systems
- Fibre Grating interrogation systems
- PDL reduction for Optical Spectrum Analysis
- Preventing polarisation induced signal fading

- Degree of polarisation: 1% minimum
- Scrambling speed: 10kHz - 300kHz
- Wavelength range: > 40 nm
- Average PMD: < 0.2 ps
- Insertion loss : < 1.5dB (with connectors)
- Back reflection <-60dB (without connectors)

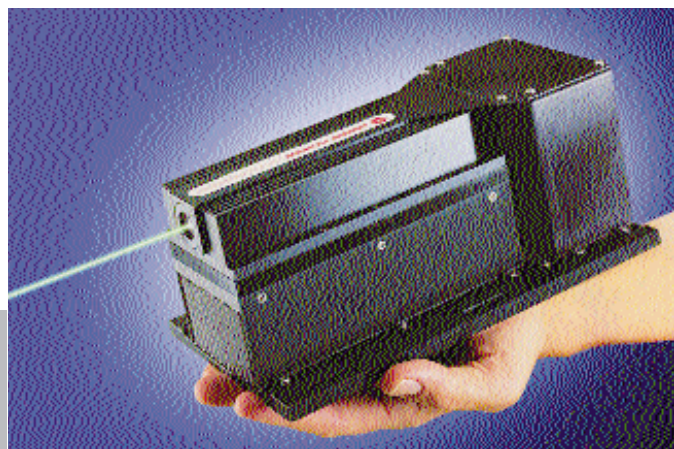


DPSS Microlasers

**ELLIOT
SCIENTIFIC
LTD**

- Diode-Pumped Solid State Green, Blue & IR
- High Power: up to 2.5W
- Single phase supply
- Affordable: 1/3rd price of competitive systems
- Air cooled - no water
- Compact

Laser Power Microlasers is a division of Laser Power Corporation. We are proud to introduce their range of three Diode-Pumped Solid-State DPSS Microlasers. These DPSS Microlasers provide high power performance in a compact, environmentally robust and low cost package. Multi-watt CW operation is possible with simple forced-air convection cooling. No chillers or liquid heat exchangers are required. Product emphasis is centred on long-life operation with affordable pricing. DPSS systems are ideal for many scientific, medical and OEM applications.



Model	DPSS Green	DPSS Blue	DPSS IR
Wavelength	532nm	457nm	1064nm
Output Power	2.5W CW 1.0W CW	0.3W 0.2W 0.1W	5.0W



VCSEL Current Source

Model VCS-611

- Ultra Low Noise Current Source (<75nA rms)
- Soft-start circuitry of laser power on
- Optically isolated modulation input

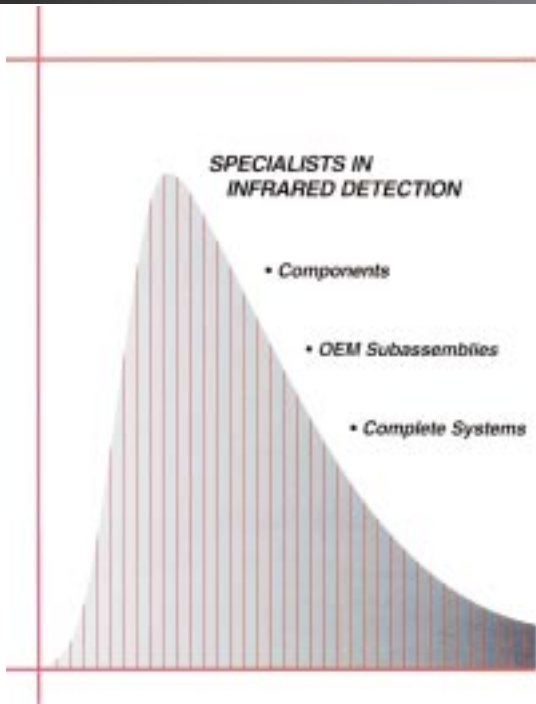
This ultra low noise current supply is designed specifically for laser diodes with low threshold and low operating currents such as VCSELs. VCSELs have large FM efficiencies so their wavelength is very sensitive to small changes in current.

The VCS-611 ensures that current source induced wavelength shifts are kept to a minimum. Modulation or ramp signals may be applied via an external modulation input.



Output Current	0-20mA
Compliance Voltage	1.5-5 V
Noise	<75nA rms (5Hz-20kHz)
Stability	<10ppm
Modulation Input	DC-20kHz

Electro-Optical Systems Inc.



IR DETECTORS

- Si
- InGaAs
- Ge
- InAs
- InSb
- PbS(e)
- HgCdTe

IR SOURCES

- Pulsed/DC filaments
- IR LEDs 1-4.7 μ m

RECEIVERS

- RT, TE, CRYO

ELECTRONICS

- Amplifiers
- LIA, A/D
- Choppers, Drivers
- Controllers
- Power Supplies

COOLING

- TE, LN, C-C Stirling

CUSTOM

- Two-colour
- Multi-element arrays
- Position Sensors

ELECTRO-OPTICAL SYSTEMS (EOS) has over fifteen years experience manufacturing photodetectors and detection systems covering the visible - 20 micron spectral region. IR sources are the newest additions to the product line. EOS provides components, sub-assemblies and instruments for use in many applications. These include optical testing, laser detection, thermometry, spectrometry, environmental sensing, gas analysis, fiber-optic sensing plus much more.

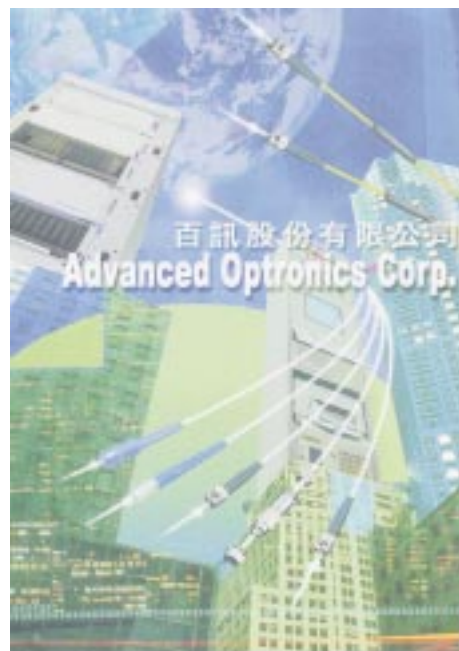
Room temperature, TE cooled and cryogenic packages are available for the various detector materials. EOS specialises in supplying standard 'off-the-shelf' or custom built packages and OEM devices at the most competitive prices in the industry.

Advanced Optronics Corp.

Advanced Optronics Corp is one of Taiwan's major manufacturers of fibre components for the data-comm and telecomms markets.

Products include:-

- FC, SC and ST Connectors/Adapters
- Patchcords FC/SC/ST/D4/Biconic
- Polished PC/UPC/APC
- Single mode Couplers (1300,1310 or 1500nm)
- Multimode couplers
- Wavelength Division Multiplexers (WDM)
- EDFA WDM
- Fixed Attenuators
- Programmable Optical Fibre Switches
- 6-96 Port Fibre Distribution Boxes



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