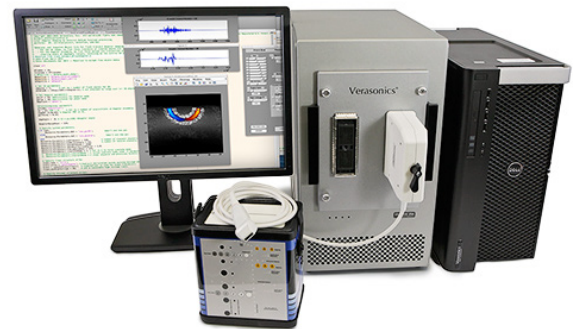
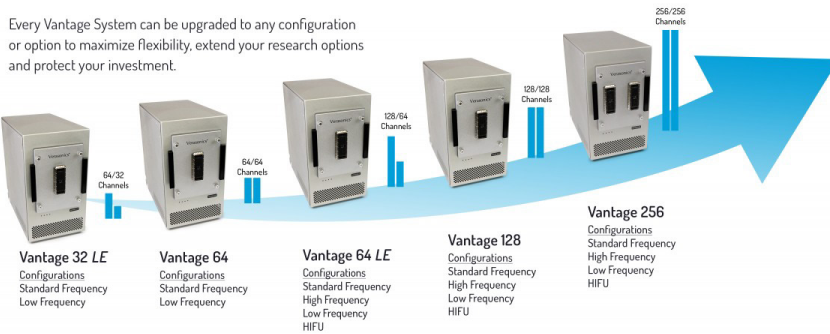


IMAGING SOLUTIONS



Ultrasound Research

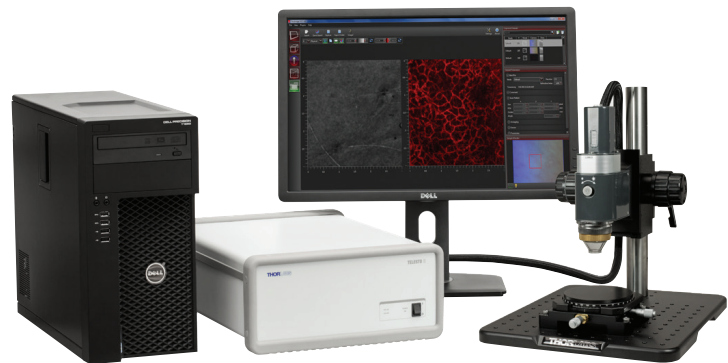
- ◆ Designed to facilitate Research and Development in
 - Biomedical ultrasound imaging and therapy techniques
 - Research in NDT/NDE
- ◆ Proprietary hardware and software technologies to provide direct access to raw ultrasound data and processing
- ◆ Proven, Scalable Ultrasound Platform



Optical Coherence Tomography (OCT)



- Thorlabs offers a variety of OCT Imaging Systems to meet a range of application requirements.
- Significant performance characteristics, including axial resolution, A - Scan rate, and imaging depth, are entirely or strongly dependent on the design of the OCT base unit, that can be customized using a wide selection of OCT scanners, lens kits, and optional accessories.



Base Unit Models	TEL210	TEL310	TEL220	TEL320	TEL210PS	TEL220PS	VEG210	VEG220
Series Name	Telesto				Telesto PS-OCT		Vega	
Key Performance Feature(s)	High Imaging Depth		High Resolution		High Imaging Depth	High Resolution	Long Imaging Range	
	General Purpose	High Speed	General Purpose	High Speed	Polarization-Sensitive Imaging		General Purpose	High Speed
Center Wavelength	1325 nm		1300 nm		1325 nm	1300 nm	1300 nm	
OCT Type	Spectral Domain						Swept Source	




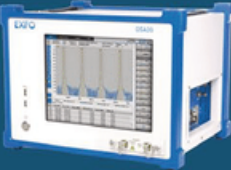



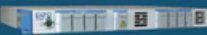
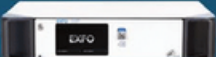

Base Unit Models	CAL110	GAN210	GAN610	GAN220	GAN620
Series Name	Callisto	Ganymede			
Key Performance Feature(s)	Laptop PC for Maximum Portability	High Resolution		Very High Resolution	
		General Purpose	High Speed	General Purpose	High Speed
Center Wavelength	930 nm	930 nm		900 nm	
OCT Type	Spectral Domain				

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Innovative PIC testers

LAB-ON-A-RACK – PASSIVE + ACTIVE	Optical test platform  LTB-12	SPECTRAL – PASSIVE COMPONENT	Swept tunable lasers  T200S  T100S-HP	SPECTRAL – ACTIVE COMPONENT	Optical spectrum analyzer  OSA20	TRAFFIC ANALYSIS	BER tester  BA-4000
	Matrix switch  MXS-9100		Passive optical component testers  CTP10  CT440		Sampling scope  EA-4000		Clock recovery  CD-4000

Tailored solutions to meet your needs

Close collaboration with other pioneering industry stakeholders to design customized solutions with a track record of successes for several PIC manufacturers.

- EXFO partnered with [Hewlett Packard Enterprise \(HPE\)](#) and [MPI Corporation](#) for streamlined, low-power, automated and fully integrated PIC testing at the wafer level to support applications from R&D lab tests to full-scale manufacturing. Wafer discs are provided by HPE; wafer handling and probe alignment are addressed by MPI; optical test and measurement is done by EXFO.
- [AEPONYX](#), a PIC inventor and micro-optical switch leader, needed a solution for faster processing of advanced silicon photonic devices. EXFO collaborated with AEPONYX and [Maple Leaf Photonics \(MLP\)](#), an integrated electro-photonics probe system developer) in the design and customization of a fully automated, optoelectrical probing system. This system uses ultra-fast optical test instrumentation that can generate a large data set for device characterization. **This integrated solution increased wafer testing speed by more than 10 times compared to previous technologies.**
- [Tower Semiconductor](#) optimized its PIC testing using a system that combines EXFO's CTP10 passive optical component test unit and [MPI Corporation's](#) TS3000 wafer disc handler. This combination met the company's two foundry-based requirements of scalability and customization to support different test setups for each PIC device, as well as its customers' need for accurate test measurements traceable throughout the PIC ecosystem.



Your Local Contact
MELSS

Contact : melsscal@melss.com
A.K.Bose (9831254486)

PHOTONICS

MEL Systems and Services Ltd. (MELSS) is known for offering cutting edge technology solutions and is an industry recognised partner offering a wide variety of solutions for scientific and research applications in the Photonics and Telecom ecosystem – from building blocks and integrated systems in Light Sources and Analysis Tools, Optics, Optomechanics and Motion Control, Imaging to Test Measurement and Automation Solutions for High-bandwidth Communications. and Sensing Solutions.

	<p>Imaging Systems, Optomechanics, Motion Control, Optics, Optical Fibres, Light Sources, Light Analysis, Wide Band Spectrum Analysers, Beam Characterisation, Modular Tweezers.</p>
	<p>Manufacturing Future-proof Test Solutions covering all needs from high-bandwidth communications to a wide variety of scientific and research applications – Electrical BER Tester / Sampling Oscilloscope, Network Protocol Testing, Network Simulation and Load Testing, Optical Benchtop Kits, Optical Component Testers, Optical Light Sources, Optical Power Meters, Variable Attenuators, Optical Spectrum Analyzers, Switch and Utility Modules, Test Platforms, Tunable Laser Sources, Tunable Optical Filters.</p>
	<p>Optical Preform Analysers, Refractive Index Profilers, Combined Spectral and Geometry, Dispersion Test Equipment and OTDRs.</p>
	<p>Optical Spectrum Analyzers and Optical Programmable Filter (C, L or C+L band) for extreme fine control of filter characteristics including centre wavelength, bandwidth, shape and dispersion and attenuation. Filter bandwidth variable from 10 GHz up to 9 THz.</p>
	<p>UV and LED Sources for spot and area curing applications. Fluorescence Illuminators.</p>
	<p>Optical Prism Coupler System for accurately measuring both thickness and the refractive index/birefringence of dielectric and polymer films as well as refractive index of bulk materials.</p>
	<p>FBG Interrogators, Spectrometers (Raman, Absorption, Fluorescence) Phase Masks, Transmission Gratings.</p>
	<p>Fiber Bragg Gratings (FBGs), FBG Arrays and Cables, FBG Packaged Sensors, FBG Monitoring Instruments (Expandable) for Ultimate Precision, Accuracy, Repeatability, Reliability in Fiber Optic Sensing.</p>
	<p>Fibre Optic (Pressure, Stress, Strain, HERO) Sensors and Signal Conditioners used in various medical, process control and R&D applications.</p>
	<p>State-of-the-art hardware and software to provide access to raw ultrasound data per channel – for biomedical imaging, intervention guidance and therapy, NDT/NDE for materials testing and earth sciences.</p>

Please contact us with your photonics application requirements and development projects.

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Luna Innovations develops the products that meets and exceed the clients needs for sensing, test & measurement, monitoring, and control solutions.

Fiber Optic Sensing and Non-Destructing Testing Products

❑ High-Definition Distributed Fiber Optic Sensing



ODiSI Interrogators



High-Definition Sensors

❑ High-Speed Multipoint Fiber Optic Sensing



HYPERION Interrogators



FBG and FP Sensors

❑ Terahertz Gauging and Imaging



Transmitters and Receivers



Terahertz Control Unit