

Product / Application Matrix



		Chromacity 520	Chromacity 1040	Near IR OPO	Mid IR OPO
Microscopy	Life Science Imaging – Two Photons + SHG	●	●		
	Life Science Imaging – Lightsheet / SPIM		●		
Spectroscopy	FTIR (Stand-off Detection / Process Control)			●	●
	Time-resolved Fluorescence Life Time Spectroscopy	●	●		
	Vibrational Spectroscopy	●		●	●
	Fundamental Research – Spectroscopy	●	●	●	●
Test and Measurement	Novel Semi Conductor Material			●	
	LIDAR	●		●	
Material Characterisation	Material Deformation – Sintering	●	●		
	Material Deformation – Nano Particles	●	●		
	Photopolymerisation		●		
Agritech	SHG Imaging (Collagen and Starch)		●		
Fundamental Research – Photonics	Nonlinear Optics	●	●	●	●
	Quantum Optics – Communications	●	●		
	Quantum Optics – Entanglement	●	●	●	

Product References

- Measuring Picosecond Fluorescence Lifetimes using a Chromacity 520
- Deep tissue cardiac imaging using the Chromacity 1040
- SHG imaging in starch and collagen fibres using the Chromacity 1040
- Two-photon fluorescence microscopy using the Chromacity 1040
- Two-Photon Lightsheet Microscopy using the Chromacity 1040
- Heating of Hybrid Gold-Iron Oxide Nanoparticles in Biological Media using the Chromacity 1040
- Supercontinuum using Chromacity 1040
- Two-Photon quantum interference and entanglement at 2.1µm using the Chromacity 1040 and Near-IR OPO
- Active FTIR-based stand-off spectroscopy using a femtosecond optical parametric oscillator
- Stand-off identification of aerosols using mid-infrared backscattering Fourier-transform spectroscopy (Near-IR OPO)
- Photon counting LIDAR at 2.3µm wavelength with superconducting nanowaves
- Open-path multi-species remote sensing with a broadband optical parametric oscillator
- White powder identification using broadband coherent light in the molecular fingerprint region
- Experimental observation of gain in a resonantly pumped Pr3+-doped chalcogenide glass mid-infrared fibre amplifier
- Dual-comb spectroscopy in the spectral fingerprint region using OPGaP optical parametric oscillators
- Infrared fingerprint-region aerosol spectroscopy
- Molecular fingerprint-region spectroscopy from 5 to 12µm using an orientation-patterned gallium phosphide optical parametric oscillator