

Your Research Partner for Photonics Solutions

CENTRE FOR ADVANCED PHOTONICS & PROCESS ANALYSIS

Innovation Through Light

Overview of Capabilities

CAPPA Provides Photonic Solutions for:

Research	 Semiconductor Light Sources Dynamics of Complex Systems Interaction between Light & Materials 	
Product Development	 New Semiconductor Materials & Devices Optical Test Equipment Illumination for Industrial Applications 	
Process Improvement	 Applied Spectroscopy for Process Control Advanced Inspection Technologies Analysis of Products & Processes 	
Consultancy	 Wide Array of Contract Services Imaging: Optical, SEM, Surface Profiling Identification: UV to IR, Mass Spec. 	

Material Properties

- Optical: UV-Vis, NIR, FT-IR, Raman, THz
- Mass Spectrometry: LC & ICP-MS
- X-Ray: Energy Dispersive Spectroscopy
- Particle Sizing: Laser Diffraction & Imaging
- Physical: Tensile testing

Imaging

- Optical: BF, DF, DIC & Fluorescence
- SEM: Large chamber environmental
- Chemical: Raman & FT-IR Imaging
- Surface Profiling: Contact Profilometry

Design & Prototyping

- Optical design: Illumination, Fibre Coupling
- Device Simulation & Modelling
- 3D Printing for rapid prototyping
- Equipment Control Software & Interfacing

Photonic Integration

- Nanophotonic device fabrication
- MEMS/NEMS structures
- Ultrafast (fs) processes characterisation: pump-probe, TRPL

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delivering solutions for industry

