



#### UV, Visible & NIR LED Solutions

- 1mm LEDs in single, double, 3x3, 5x5, 7x7 & 10x10 packages
- UV/Vis/NIR LED lamps & systems



#### Fibreoptic Instruments & Sources

- Broadband ASE sources, EDFAs & Pulsed fibre amplifier-MOPA
- Correlation OTDR fibre fault locator



#### LED, Laser Diode & Detector Solutions

- High power laser diode modules
- Fibre-coupled laser diodes, LEDs, photodiodes & PIN-TIAs



#### Silicon Photomultipliers (SiPMs)

- Solid-State PMT – Low Noise, High Gain, Low Voltage
- 1mm, 3mm & 6mm SMT & PIN-adapter components
- Evaluation kits – PCB w/ socket, Pre-amplifier, Bias Source
- Standard & Custom SiPM arrays



#### Liquid Crystal-based Optical Components

- Fast Optical Shutters (FOS) & Variable Neutral Density Filter
- Fast Polarisation Modulators (FPM) & Variable Polarisation Rotators (VPR)



#### Silicon Photodiodes & Hybrid Detector-Pre-amplifier Receivers

- UV/XUV, electron/ion & soft x-ray detectors

#### UV, Visible & NIR Light Emitting Diodes & LED Arrays

#### IR Detectors & Emitters

- PbS (1 – 3.1µm) & PbSe (1 – 5.5µm) detectors & thermal IR emitters



#### 180nm - 2500nm Spectrometers

- MEMS grating-collimator, Czerny-Turner & folded C-T cavity spectrometers
- Standard & custom Slit, Grating & Detector configurations

#### Light Sources

#### Spectral Measurement System



#### Singlemode Laser Diodes

- 1030nm – 1240nm PMF pigtailed DFB
- 532nm, 561nm, 594nm, 640nm, 660nm, 785nm, 830nm & 940nm
- 1310nm 155Mbps & 1300nm high temperature Quantum Dot FP



#### Multimode Laser Diodes

- 445nm – 1850nm freespace & fibre-coupled
- 622nm – 1064nm laser diode arrays



#### Ultra Violet Light Emitting Diodes

- Surface mount & TO-style packages
- 255nm – 310nm



#### Ultra Violet Light Emitting Diodes

- Surface mount single- & multi-chip packages
- 340nm – 420nm



#### Data Acquisition Systems for SiPMs, PMTs & APD Arrays

- Multichannel charge integrating DAQs & photon counting systems
- SiPM, PMT & APD array interface boards

For Solutions

APT 1: unusually fitted or qualified: **READY**  
2: suited to a purpose; especially : being to the point  
3: keenly intelligent and responsive