Warsash Scientific Pty Ltd
t: +61 2 9319 0122
www.warsash.com.au

PRESS RELEASE
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Helix Si APD from Excelitas

Excelitas' new HeliX Silicon Avalanche Photodiode (APD) Module is a compact, easy-to-use, analogue low-light-level detection (L^3D) module employing Excelitas' leading-edge Si APD chips. The detector is in a hermetic TO package, mounted on a practical OEM based PCB which includes high-voltage power supply, temperature compensation, a low-noise transimpedance amplifier, APD bias monitor and micro-controller.

With this compact voltage-output module, the preamplifier gain is optimized to obtain maximum dynamic range and linearity with the APD at gain adjustable operating voltage. It optimises APD operation in key performance parameters such as higher sensitivity, and better signal-to-noise ratio across the 400nm - 1100nm wavelength range.

The HeliX APD module is offered with a bare 0.5mm diameter reach-through Si APD or FC-connector packaging

Key features include;

- High responsivity: 1300KV/W @ 900 nm.
- Transimpedance amplifier.
- 50Ω SMA output connector.
- Temperature compensation to stabilise gain and responsivity.
- User controllable gain and responsivity.
- Single +5V operating voltage at input provides HV and LV internal biases for APD and TIA.
- Front plate can accommodate various APDs.
- User-friendly compact footprint.
- ROHS Compliant.

For more information, contact Warsash Scientific on +61 2 9319 0122 or sales@warsash.com.au.