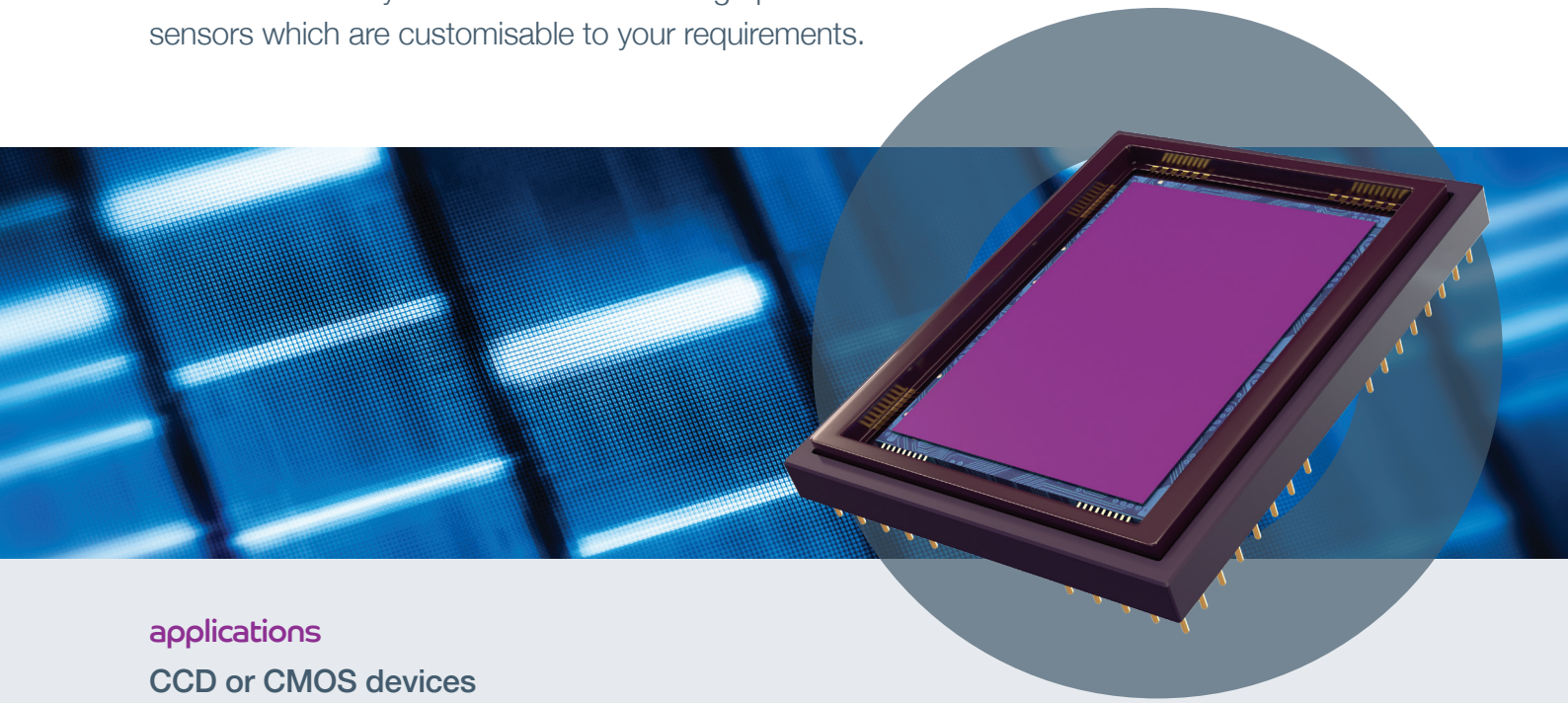
scintacor
THE CENTRE OF SCINTILLATION

Custom Coatings

Designed to enhance the performance of CCD or CMOS devices

The excellent sensitivity of our phosphor based scintillators transform relatively low cost devices into high performance sensors which are customisable to your requirements.



applications

CCD or CMOS devices

Constructed using a phosphor based coating applied directly onto a CCD or CMOS device, these coatings extend the sensitivity of the device from the visible light range into the ultraviolet or infrared.

Our manufacturing processes allow us to extend the coating all the way to the edge of the required active area providing optimal imaging solutions for applications including: spectroscopy, biological imaging, materials research, and telecom device manufacture and test.

Tailored for extended spectral responses, our specialised phosphor coatings provide low noise, optimal imaging and high performance detection solutions.

Fibre optic plates

Our coatings can also be applied to fibre optic plates or other passive components for specific customer applications in the IR or UV.

features

- Extend spectral sensitivity of your device into UV and IR range
- Ultraviolet and Infrared applications
- Wavelength specific phosphors
- High performance
- Cost effective method of UV and IR detection for many applications
- Low noise

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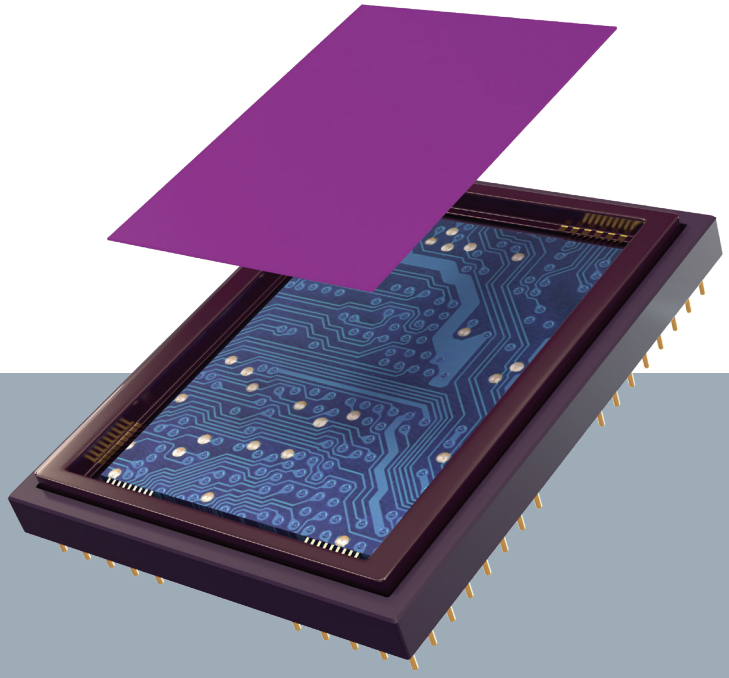

UV coatings

- **BAMb** - General to short UV phosphor with 240-400nm absorption and a blue peak emission at 460nm
- **BAMg** - General to short UV phosphor with 240-400nm absorption and a green peak emission at 520nm
- **GOrg** - Robust UV phosphor with 150-400nm absorption and a green peak emission at 545nm
- **P43** - Gadolinium Oxysulphide phosphor with <300nm absorption and a green peak emission at 545nm

IR coatings

- **VisIR**
  An anti-stokes phosphor with broad band excitation and a peak emission of 560/900nm (excitation dependent), which does not require charging.
- **VisE**
  A storage phosphor with broad band emission (peak of 660nm) which requires charging with UV or blue light.

specification

Phosphor Coating	Excitation	Emission	Median particle size	Decay time to 10%
BAM b	240-400nm	460nm	4-5µm	3µs
BAM g	240-400nm	520nm	4-5µm	0.8µs
GOrg	150-400nm	545nm	~10µm	2.6ms
P43	10-300nm	545nm	4µm	1.5ms
VisE	800 -1600nm	660nm	5µm - 9µm	85ns
VisIR	800, 1100, 1550nm	560/900nm	5µm - 9µm	Process dependent

customised solutions

We utilise a selection of different coating methods to suit the specific device and application of the customer's system.

Our flexible manufacturing facilities, allow us to provide our customers with consistent quality for both small and large production volumes.

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