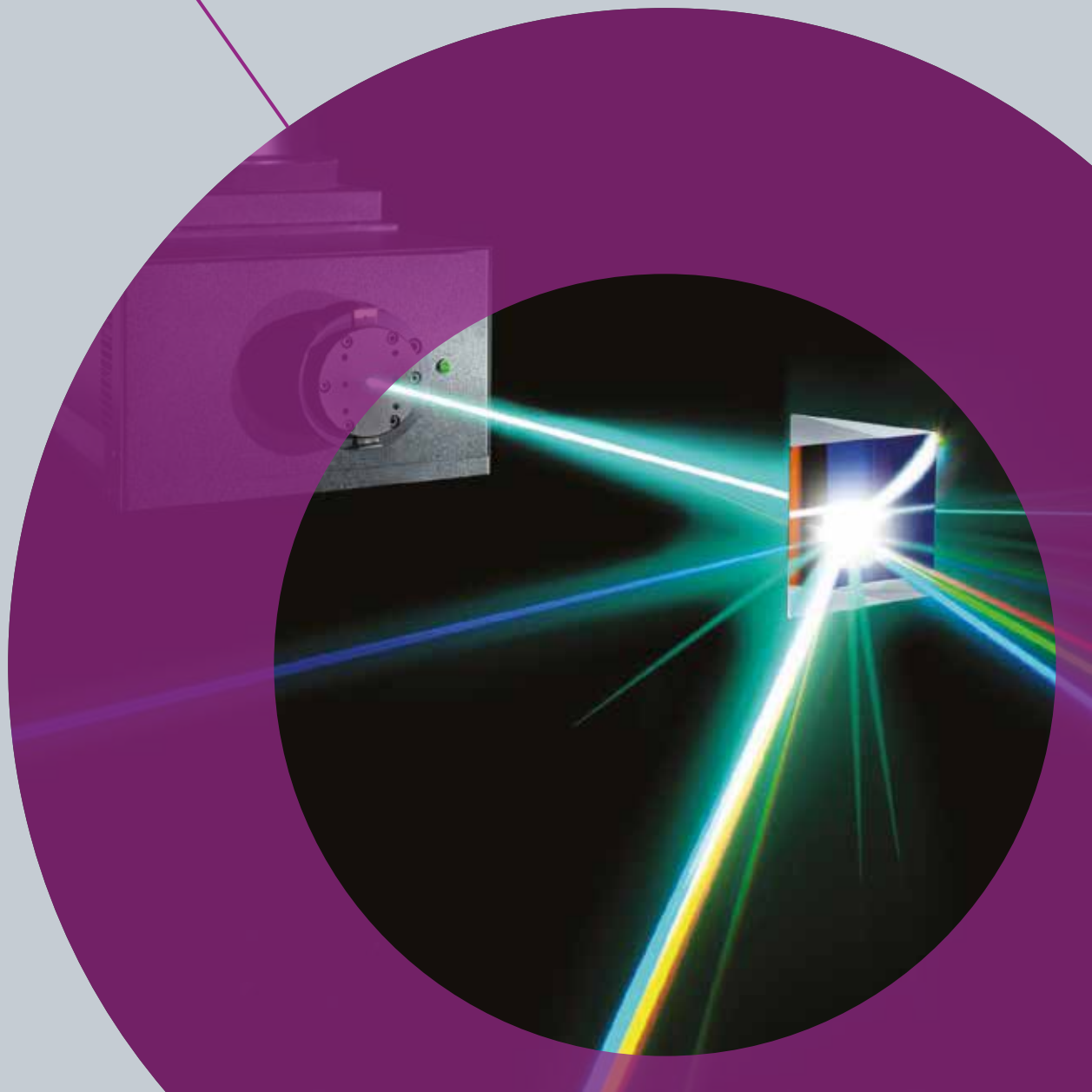


# scintacor

THE CENTRE OF SCINTILLATION

## for Photonics

Advanced phosphor and glass technologies  
for high performance alignment, detection,  
imaging and spectroscopy applications



# custom scintillation at the core of your optical system

High sensitivity and extended spectral responses are key advantages of using a Scintacor customised scintillation solution.

Using our established phosphor and glass technologies we have developed a number of products for use in laser alignment and detection, electron imaging, spectroscopy and oil well logging, from components to end user solutions.

Our flexible manufacturing capabilities allow us to customise our products to meet the high performance demands of your market. The resulting products allow you to choose the right level of performance to best suit your requirements and application.

## the application of phosphor technologies

We utilise our established phosphor technologies to allow for the imaging and detection of ultraviolet (UV) and infrared (IR) light, spectral enhancement of silicon devices and electron detection.

This phosphor technology can be applied directly to your device or pre-coated onto a substrate for incorporation into your system.

## products

Our Visualize range of laser detection products are acknowledged as a market leader in laser alignment; and our CamIR camera is the preferred choice within the telecommunications industry for real-time infrared imaging.

Scintacor has a range of novel phosphor coatings, tailored to electron and ion detection across multiple energies.

We apply the same level of targeted expertise to all of our phosphor products, customising each component for high performance and tailored responses, we can even custom brand the Visualize range to fit the needs of our customers.

## intelligent technology

As an established authority in phosphor technology, we have developed a number of application techniques for superior sensitivity.

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

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



## Phosphor Technology

- Customised phosphor coatings
- Extended spectral ranges
- Components and end user solutions

## Glass Technology

- Suitable for harsh environments
- Emission matched to PMT's
- Customisable geometries

## the application of glass technology

As the world's largest lithium-6 based glass manufacturer, we draw on decades of experience in providing robust neutron detection scintillators.

The unique properties of these scintillators make them ideal for use in challenging environments such as space and oil exploration.

## products

Characteristics such as being robust, chemically inert and able to perform at extremes of temperature and pressure, make our glass scintillators the industry standard in the detection of neutrons in oil well logging; whether it be measurement whilst drilling or wireline applications.

## intelligent technology

As an established authority on lithium based scintillators, we have developed manufacturing and finishing techniques to ensure consistent quality and reliability.

Surface finish, concentricity and format can all be customised to meet your requirements.

*flexibility to deliver clever  
and custom scintillation  
components*



# clever scintillation for optical applications



## Custom Coatings

Designed to enhance the performance of CCD or CMOS devices

- Extend spectral sensitivity of your device into UV and IR range
- Ultraviolet and Infrared applications
- Wavelength specific phosphors

The excellent sensitivity of our phosphor based scintillators transform relatively low cost devices into high performance devices.

Customisable to your requirements, our range of coating products offer:

### a high performance, cost effective method of UV and IR detection for many applications

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 range.

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.

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

Our coatings can also be applied to fibre optic plates for specific customer applications.

## Glass Scintillators

Lithium glass scintillators for neutron detection

- Oil well logging applications
- Customisable geometries
- High sensitivity
- Robust

The excellent sensitivity of our lithium based glass scintillators allow for reliable, high sensitivity neutron detection.

Customisable to your requirements, our glass scintillators offer:

### a high performance, robust product for neutron detection in oil well logging applications

Constructed using lithium glass our neutron detectors are used primarily to detect the presence of oil or gas in logging applications.

Our ability to manufacture an extremely robust scintillator makes it ideal for use in harsh environments.

The scintillator can be manufactured in many geometries such as discs, rectangles and cylinders. The physical makeup of the scintillator is chosen to align with your needs and application.

## CamIR

Camera for affordable, real-time infrared imaging applications

- Laser detection or direct imaging
- Light weight design
- High sensitivity

The excellent sensitivity of the phosphor based scintillators within our CamIR product allow for reliable detection of laser beam profiles.

Our range of CamIR products offer:

### a high performance, sensitive camera for the detection and alignment of lasers

Using our established technology we have developed the CamIR. Optimised for highest sensitivity at 1550nm, it is ideally suited to beam location / alignment of communications band emitters, lasers, high-speed fibre optics, or direct imaging through an attached lens.

The CamIR's light weight design and high sensitivity make it ideal for use in a laboratory environment or remote locations.

We also offer the CamIR Adapter for easy and cost effective adaption of your camera for use at 1550nm.

## Visualize Range

Detection products for use with UV, Visible and NIR radiation

- Laser alignment and detection
- Customisable size & shape profiles
- Non-reflective for added safety
- High sensitivity

The excellent sensitivity of our phosphor based scintillators allow for reliable alignment of laser beams.

Customisable to your requirements, our Visualize range offers:

### instant, high performance products for reliable laser beam alignment

Constructed using a phosphor based scintillator screen, mounted directly on to a plastic card, the Visualize range is used for the alignment of laser beam profiles by converting ultraviolet and infrared light into visible light for laser safety.

Our manufacturing processes allow us to create a large area for ease of beam acquisition, especially useful in maritime applications.

The Visualize range is available in three versions:

- Visualize** for visible lasers
- VisualizeIR** for near infrared detection
- UVisualize** for the ultraviolet region of the spectrum.



# customised excellence at the core of your system

## Customer Support

Your scintillation partner

- Continued product development
- Dedicated technology specialists
- Highly knowledgeable sales team
- Quality Assurance systems
- Customer defined delivery schedules

## Custom Components

Designed and manufactured for you

- Designed to meet your requirements
- Dedicated development programme
- Product development process including prototyping and design reviews
- Quality Assurance guaranteed



Scintacor's flexible production capabilities and exemplary customer service allow for a collaborative approach to the design, manufacture and delivery of bespoke scintillation solutions.

We believe that ongoing collaboration allows us to adapt and improve our product offering in line with customers requirements. We are committed to continued product improvement and further understanding of our customers future, as well as current requirements.

As a BS EN ISO 9001:2008 accredited company our quality procedures allow for full product traceability. Our commitment to quality has led to a high level of confidence among our customer base in the integrity of our products.

Scintacor has the knowledge and expertise, based on years of experience, to partner you in the development of custom products using phosphor technology.

Resolution, sensitivity, and speed of response, are a few of the parameters that can be influenced in the production of a customised product that more clearly relates to your customers' needs.

Our experience with phosphor technologies along with our flexible manufacturing processes will provide product differentiation and a unique product positioning.

Talk to our expert team to see how together we can deliver clever scintillation components customised for your needs.

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### Company Overview

**Scintacor** (the new name for Applied Scintillation Technologies) is a world leader in phosphor and scintillation technology. Our products allow the conversion of many different radiations into light for imaging and detection.

Our extensive caesium iodide production facilities are backed up by full in house testing and characterisation laboratories; all housed within our clean rooms.

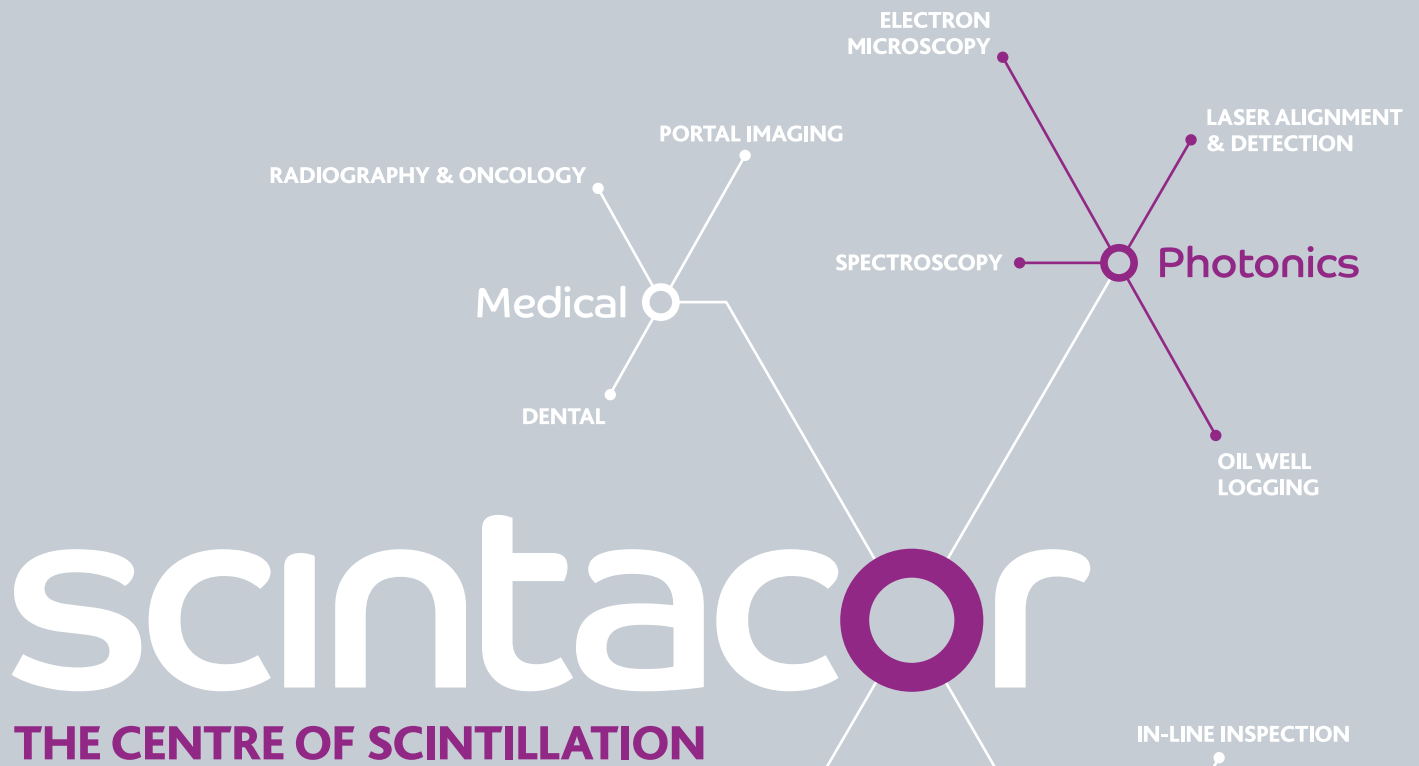
A comprehensive product range provides the interface for the detection of neutrons, alpha and beta particles, gamma rays, electrons, ions, X-rays, and UV/Visible and infra-red radiation. The diverse range of applications for these are listed opposite.

In addition to our standard product range, we are always delighted to discuss the development and manufacture of customised scintillation products for specific applications.

We also offer a range of complete products, patented infra-red digital cameras and adaptive optics, and laser alignment devices.

Continuing to build upon our 80 years of innovative product development and technological advances, Scintacor is committed to delivering flexible and timely customer-focused solutions to meet the future requirements of our key markets.

- Dental X-ray Imaging
- Radiography and Oncology
- Portal Imaging
- Industrial NDT
- In-line Inspection
- Health and Safety
- Nuclear Decommissioning
- Mail, Parcel and Cargo Inspection
- Baggage Check
- Radiation Portal Monitoring
- Spectroscopy and Electron Microscopy
- Laser Alignment and Detection
- Oil Well Logging
- Space Exploration



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