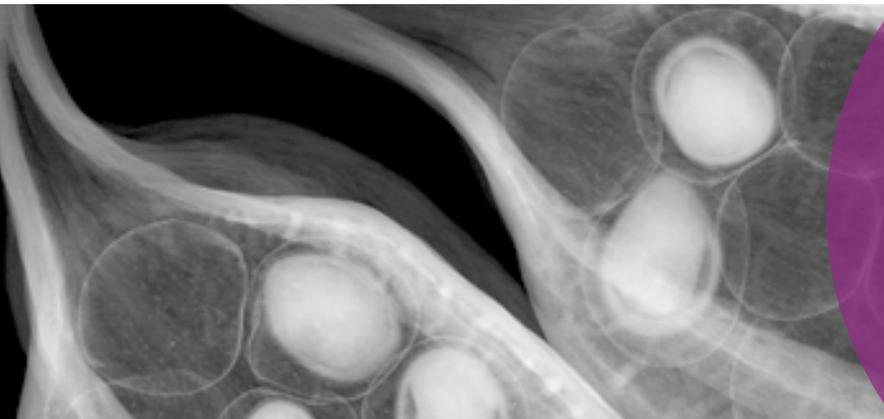


# CsI X-Ray Scintillators

Ultra-high resolution and light yield for superior detection efficiency

Our microcolumnar thallium doped caesium iodide (CsI:TI) is extensively used in the most demanding x-ray imaging applications for its superior performance compare to phosphor screens and single crystal scintillators.



## typical applications

- Medical
- Dental
- In-line inspection
- In-line metrology
- Non-destructive testing (NDT)
- X-ray diffraction imaging (XRDI)

## customised solutions

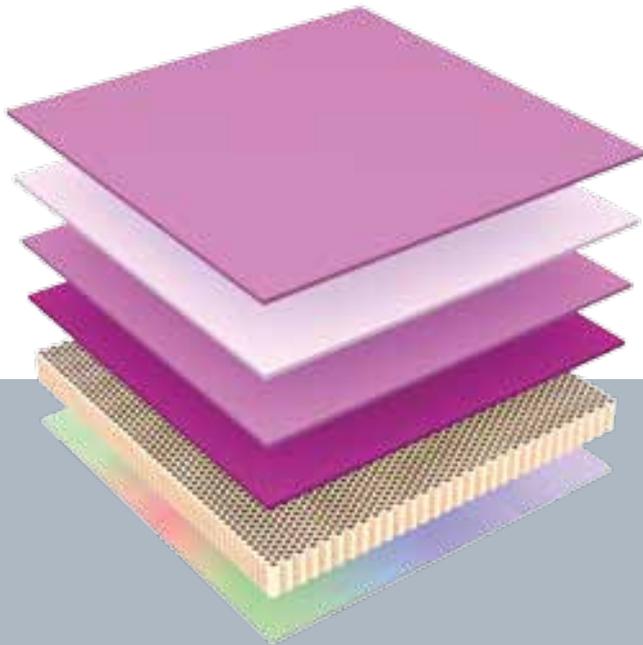
Resolution, sensitivity, size and shape are a few of the parameters that can be defined in the production of a customised CsI scintillator.

Substrate, coating thickness and reflector materials can be customised to target a specific performance.

Talk to our expert team to see how together we can deliver clever and custom scintillation components to meet our customer's needs.

## features

- Ultra-high resolution
- Class leading environmental protection
- Fast response for high frame rate applications
- Low patient x-ray dose in medical applications
- Radiation hard for demanding NDT applications
- Low afterglow for dynamic image capture
- Maximised image area
- Suitable for CMOS, CCD, SiPM and TFT



## typical layers

**Protective parylene layer(s):** Maintains the quality of the scintillator performance.

**Optional absorber / reflector layer:** In conjunction with the substrate of choice, is used to fine tune performance to customer's needs.

**Caesium iodide coating:** Provides state-of-the-art scintillator with columnar structure.

**Substrate:** Application specific.

## flexibility

### Size and Shape

Customised to your design.

### Coating Thickness

Tailored performance to meet your application needs.

### Quality Area

Up to 98% of the active area.

### Absorber/Reflector Layers

Range of optional layers for customised imaging results.

## class leading performance

CsI:Tl has a needle like structure, which consists of an array of closed packed columns.

## superior output quality

Due to the slightly hygroscopic nature of CsI our coatings are protected against moisture ingress. This protection also provides a superior and robust finish to eliminate damage from transit and handling, maintaining image quality right to the edge of the scintillator, or sensor, area.

## flexibility

Our CsI coatings can be applied to your exact size and shape requirements, on a wide range of substrates for both small and large volume production runs.

## specification

Scintillator Type	CsI:Tl
Scintillator Thickness	up to 600um
Substrate	fibre optic plate (FOP), aluminium, polymers or other materials
Relative Light Output	up to 150% Lanex Regular
Resolution (%)	up to 40% at 10 lp/mm
Active Area	fully customisable with minimal border region

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