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THE CENTRE OF SCINTILLATION

BaFCl X-ray Screens

Backscatter X-ray detection for security applications

The excellent sensitivity and robustness of our phosphor based screens allow for reliable, high resolution X-ray imaging for mail, parcel, baggage and cargo inspection and for use in industrial NDT, health and safety, and quality control.

product range

Manufactured in our state of the art facilities in Cambridge, UK, we now offer Barium Fluoro Chloride (BaFCl) as the latest material in the Scintacor x-ray screen range.

Available in a range of coating weights, with a choice of substrate and mounting material, BaFCl X-ray Screens can be manufactured in sizes up to 0.85 x 1.2m, suitable to be cut to size and to complex shapes.

BaFCl provides the potential of an X-ray detection screen option, comparable to Scintacor's highly acclaimed current products including Gadox and CsI, at a competitive cost.

features

- Fast decay
- High light output
- Large area (up to 0.85 x 1.2m)
- Excellent uniformity
- Competitive cost
- Pre-cut to shape
- World class quality

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screen size	Scintacor screens can be cut to match the specific applications/requirements of the customer. The screens can be manufactured up to maximum dimensions of 85cm x 120cm.
thin strips	Scintacor screens can be precision cut into strips for use with linear detectors. These strips are particularly useful in high throughput applications.
substrates	Scintacor screens are manufactured on a Melinex white polyester material. Alternative substrates can be developed on demand to meet your needs.
construction	A wide range of mountings and support materials are available, such as aluminium, bakelite and perspex. Wall thickness tolerances can be agreed on demand.
protective layer	The screens can be manufactured to include an acetate layer to protect the integrity of the phosphor during transport and handling.

applications

Security applications

Our screens offer a fast, high performance, and reliable product for backscatter x-ray imaging in security applications.

They are constructed using a phosphor based scintillator and are available on a range of substrates.

customised solutions

Our manufacturing flexibility allows us to fully customise the size and shape of our screens, we also have the capability to supply the screens as self-supporting sheets or mounted to a variety of materials.

With size, shape and X-ray absorption characteristics customisable to your requirements, we can design and manufacture each screen to suit your exact application and operational demands.

BaFCl properties

Emission peak	**390nm** 70kV, 140µA x-ray
Decay	**6.4 µs** Cs-137 8.542Ci source 3000 pulses
Afterglow	**0.2%** After 20mS
Light Output	**26% Ref. Lanex Regular** 70kV, 140µA x-ray

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