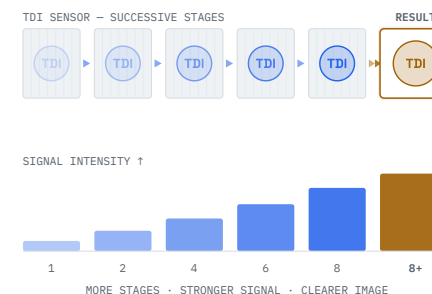


TIME DELAY INTEGRATION

TDI & 2D — more stages, clearer image

Electronics and sensor architecture. 2, 4, 6, 8 or more stages of integration in single or dual-energy configurations to build signal and improve contrast.

**2, 4, 6, 8+**

Stages, expandable to suit the application

24-bit

Digital front end

1 ppm

Electronic noise (SNR 1,000,000:1)

50 μs

Minimum integration time

HOW TDI WORKS

Signal builds with every stage

- Each stage re-samples the same point on the belt as it travels
- Signal accumulates with every additional pass
- More stages give a stronger signal and a clearer image
- Enables faster belt speeds, or the same image at lower dose

SENSOR SPECIFICATION

Technical summary

TDI stages	2, 4, 6, 8+ modular
Sampling	True 2D simultaneous
Energy modes	Single or dual
Pitch	0.4 / 1.0 / 2.0 / 3.0 / 6.0 mm or custom
Dynamic range	12.5 – 320 pC
Channels/board	128 – 2048
Sensor Board	CsI, Gadox, GOS, CdWO ₄ / CWO, ZnSe, Silicon – other options are available
Scintillator Materials	

DESIGNED AROUND YOUR LINE

Configured to your application

- Modular architecture scales TDI depth to the application
- Processing ASIC positioned off-beam for long operational life
- Precision anti-scatter collimation as a fully assembled module
- Precision-cut multi-material and 2D grid options

APPLICATION

What customers detect

Fish & seafood	Pin-bone detection
Poultry	Residual bone fragments
Meat	Bone & foreign body detection
Bottling & canning	Fill level, glass defects
Battery	Electrode alignment
Transformer	Winding & core integrity

TYPICAL APPLICATIONS

Material discrimination Density analysis Bone & foreign body detection High-speed bottling & canning Battery inspection & sorting Food inspection Rail scanning Transformer inspection

ISO 9001:2015

ISO 27001:2022

ISO 14001:2015

ISOQAR Cert No. 27075