

X-Ray Detectors

for Security Applications

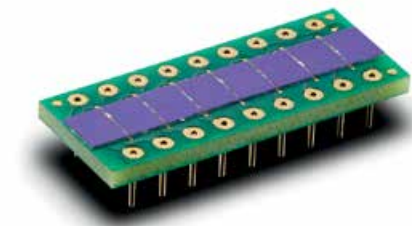


APPLICATION EXAMPLES

- Mail and parcel screening
- Check-point and checked baggage screening
- Air cargo screening
- Vehicle screening
- Cargo and truck screening
- Personnel screening (Body scanning)

SYSTEM FEATURES

- Threat recognition by material discrimination using dual energy transmission X-rays
- Various configurations:
 - Single/dual/multi-view
 - Multi-line
 - Rotating or stationary computed tomography system
- Typical X-ray energy levels covered:
 - ≤ 140 kVp in small systems, mail and parcel
 - 140-220 kVp in mid to large size baggage and air cargo screening, body scanning
 - 200-600 kVp in small cargo and vehicle scanning
 - 1-9 MeV for large cargo, truck and train scanning

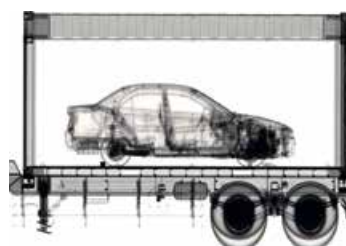


Off-the-shelf or customized solutions from bare photodiodes to complete detector subsystems.





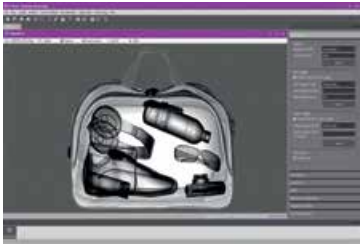

X-ray imaging components and subsystems for a complete range of security applications from baggage, parcel and cargo scanning to personnel screening and computed tomography.

DT products are built on a modular, scalable and customizable architecture. The portfolio includes optimized solutions for all major security screening systems with various resolution and energy level options.

Our unique business model enables us to provide products to meet your quality and performance needs.



SYSTEM REQUIREMENTS:

Product series	Applications	Key features
<p>X-Array</p> 	<p>Mail, parcel, baggage, air cargo, vehicle, personnel screening systems</p>	<ul style="list-style-type: none"> • High efficiency, reliable, backside illuminated photodiode arrays with or without scintillators • Pixel pitch options 1.2/1.6/2.5 mm • Optimized for systems with existing readout solution
<p>X-Card detectors X-GCU readout</p> 	<p>Mail, parcel, baggage, air cargo, vehicle, personnel screening systems</p>	<ul style="list-style-type: none"> • Complete single- and dual-energy X-ray detector sub-systems with readout electronics • Efficiency also for dual and multi view systems, which require several detectors • Pixel pitch options 0.8/1.5/1.6/2.5 mm with various scintillator options • Gigabit Ethernet interface, data pre-processing and diagnostics functions
<p>X-Scan L-series L-shaped detector arrays</p> 	<p>Mail, parcel, baggage screening systems</p>	<ul style="list-style-type: none"> • Complete detector array in a light tight housing, includes also X-ray beam collimation • Enables rapid system development and straightforward integration • Off-the-shelf configurations include 1.5 mm pitch dual energy detectors • Products for standard tunnel sizes: 50x30, 60x40, 65x50, 75x55, 100x100cm
<p>X-Scan LCS Detector modules</p> 	<p>Vehicle, cargo, truck and train screening</p>	<ul style="list-style-type: none"> • Complete detector sub-system solution for high energy X-ray screening • Pitch 2.3/4.6/9.2 mm • Single and dual row configurations
<p>X-View2</p> 	<p>All applications, which use DT's readout solution</p>	<ul style="list-style-type: none"> • Interfacing libraries, SW development kit and evaluation application • Detector control and diagnostics • Image data viewing, saving and analysis • Enables rapid system development
<p>Customized detectors</p> 	<p>All applications requiring high performance X-ray detection</p>	<p>DT provides custom products on various integration levels from bare photodiodes & ASICs up to complete detector subsystems. Applications include conventional single & dual energy X-ray detection, multi-view, CT and cargo screening systems.</p>

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