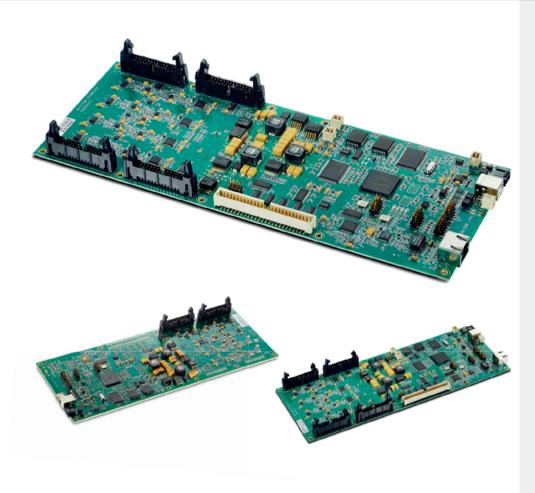
X-DAQ

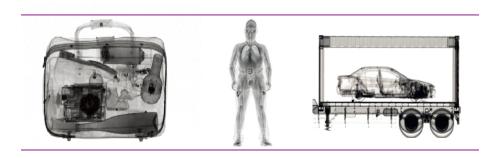
Data acquisition and control board for X-Cards





X-DAQ | X-DAQ is designed to be used with Detection Technology's linear array X-ray detector cards, like X-Card 1.5-64DE. X-DAQ and detector cards together provide a complete detector subsystem for

X-ray image acquisition. Typically only power supply and Ethernet need to be connected to X-DAQ. Demonstration software and interface libraries for host computer are available.



APPLICATIONS

- Security inspection
- · Multi-view imaging
- Non-destructive testing
- Food inspection
- · Raw material sorting
- Thickness measurement
- · Foreign particle detection
- · CT imaging
- · Bone densitometry

KEY FEATURES AND BENEFITS

- Single +12 or +24 VDC power input for powering the complete detector system
- Cascade connection for up to 23 pcs of 64 channel dual energy detector cards or 46 single energy detector cards
- Simultaneous line integration and data read out
- · 16-bit data acquisition and output
- Real-time image data connection to host computer via Ethernet,
 Frame Grabber or USB interface.
 Demonstration software and interfacing libraries available
- On-board signal processing functions. Including gain and offset normalization, line summing or averaging and binning functions
- Diagnostics functions. Including data test patterns, remote readable temperature sensor and status indicator LEDs
- Line and frame trigger inputs for optional synchronization with a complete X-ray system

PRODUCT	Minimum		Maximum	
Input voltage	10.5 V	-	28.0 V	
Input current	0.2 A	1	2.0 A	
Input power (including detector card)	6 W		22 W	
Number of detector cards (max)*	Dual energy: 23			
		Single energy: 46		
Detector cards per video channel		12		
Integration time	0.75 ms	/	128 ms	
Sampling speed	7.8 lines/s	,	1333 lines/s	
Scanning speed (= belt speed with 1.5 mm pixel)	12 cm/s		200 cm/s	
Ethernet data rate		18 Mbps		
USB data rate		160 Mbps		
Frame grabber data rate		640 Mbps		
System linearity		>99%		
Mechanical dimensions		310 mm (L) x 120 mm (W) x 31 mm (H)		

^{*} depending from X-Card type. For larger configurations, several X-DAQs can be connected in parallel

