

AN 8 OR 4 CHANNEL ULTRASONIC FLAW DETECTOR FOR SYSTEMS APPLICATIONS

The Eureka PCUF Ultrasonic Flaw Detector
Plug & Play PCI Board



The 8 Channel (Eureka Mux8) or
4 Channel (Eureka Mux4) Multiplexer



The Eureka PCUF-Mux8 provides a low cost solution for OEM ultrasonic application and in-line multiple channel ultrasonic inspection systems. It uses the tried and trusted Eureka PCUF which is a very high speed ultrasonic flaw detector board; please refer to its brochure for a detailed specification. As an option a four channel multiplexer may be supplied, the Mux4.

The Eureka PCUF-Mux8 can be operator programmed to give any sequence of transmitting and receiving for the selected probes. This enables any combination of pulse echo, through transmission and cross coupling functions to be configured with no hardware changes.

Has Remote Pulsers, Pre-Amplifiers and Attenuators.

Provides independent setting of ALL parameters.

**Multiple channel digital display selectable for
1, 2, 4 or 8 probes.**

0.5 to 20MHz bandwidth.

Maximum pulse repetition rate of

($\frac{20}{\text{Number of active channels}}$) KHz.

**10 bit A/D conversion at 200MHz for 100%
pulse repetition rate.**

Excellent near surface resolution.

**Very low noise in the PC environment, better than
20% full screen height.**



Telephone

+44 (0)1981 541122

Fax

+44 (0)1981 541133

Email

Sales@InsightNDT.com

Web Site

www.InsightNDT.com

**Insight NDT
Equipment Ltd**

The Old Cider Mill
Kings Thorn
Herefordshire
HR2 8AW

Directors

Mark Wilcox BSc (Hons)
Jiang Li BSc (Hons)

VAT Registration No.

771 3060 50

Registration No.

4198815 England

Registered Office

21 St Owen Street, Hereford,
Herefordshire HR1 2JB

TECHNICAL SPECIFICATION

Eureka PCUF

Please refer to the Eureka PCUF brochure and technical specification

Channels Max 32 cards per system
Max 8 probes per card

PRF Rates 20 - 20.000 Hz

Synchronisation Internal / External

Multiplexing 1 to 8 probes per card (with all parameters individually controllable)

Remote Transmitter

Voltage 100 / 200 / 300 / 400V

Pulser Square Wave

Trigger Internal / External

Pulse Width 20 to 1000 nsec

Pulse Delay 0 to 327.68 μ sec in 1.28 μ sec steps (20 nsec optional)

Fall time 5 nsec

Test Mode Pulse Echo / Through Transmission

Input Attn. 20 dB

Software

A-Scan Display Installable software with parameter menu

Support drivers for Win2K and WinXP

Library parameters stored in Dynamic Link Libraries / ActiveX

Control for accessibility with other programmes

Help Interactive help menu

Multiplexing

Firing Parallel firing multi-channel

Timed firing Delayed firing

Sequence Selectable firing sequence

Independent Settings All setting are independent

