

APPLICATIONS

PRAGMA

NDT IN BLACK AND WHITE

ONE CARTRIDGE PER TECHNOLOGY:

UT Standard flaw detection and C-scanning

TOFD B-scan imaging with encoder for improved sizing accuracy

PAUT Linear and Sector scan imaging for improved speed and POD

Pulse-Echo, Guided Waves and High-Temperature without the need for couplant
Surface inspection with multi-frequency and multi-channel solutions for tube,

pencil and rotary probes

Ideally suited for inspection companies, consultants and training schools.

BEST IN CLASS

The state-of-the-art beamformer features 16 active channels, multiplexing over 128 elements, 100 MHz sampling per channel, 16-bit A-scan and many other advanced features.

EMAT

ECT

HIGH-POWER

The square-wave pulsers are running at 180 Volts peak-to-peak and feature a special circuitry to maximize the transfer of piezoelectric energy.

ADAPTIVE

Each beam signal (A-scan) can be calibrated with: Static Focusing (SPAF), Dynamic Focusing on Reception (DFR), Distance-Amplitude Correction (DAC), Time-Corrected Gain (TCG), and Angle-Corrected Gain (ACG).

ENCODED

The pulsing and data acquisition can be running at fixed PRF or triggered by position with 1 or 2 quadrature encoders.

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Easiest GUI, quick access buttons and expert menu

PRAGMA SOLUTIONS CND

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PAUT 16/128 CARTRIDGE

PULSERS Channels 16 actives, 128 Multiplexed

Pulser +/- 100V (200 Vpp) Bipolar Square Wave

Burst Up to 5 cycles

Max. Pulse 5 to 4000 Hz, manually Repetition

Pulse Width 40 to 1000ns

Pulser Delay 0 to 10.2 us, 5.0 ns step

BEAMFORMING

Max. Nb of 128 (S-scan)
Laws 256 (L-scan)

Amplitude Static per probe element Dynamic per beam (ACG)

Dynamic Focusing Up to 5 zones

CONNECTORS

PAUT Probe I-PEX 30046 (Omniscan)

Encoders, LEMO 9-pin model Input/Output FGG.0B.309

RECEIVERS

Channels 16 actives, 128 Multiplexed

Max. Input 625 mVpp Signal Amplitude

Input Impedance 50 Ohms

Input Bandwidth 0.5 to 25 MHz @ -3 dB

Gain 0 to 80 dB (with TCG)

Receiver Delay 0 to 10.2 us, <u>5.0 ns step</u>

Digitizing 100 MSPS, 12 bits per

channel

Digital Filters 6 presets, user adjustable

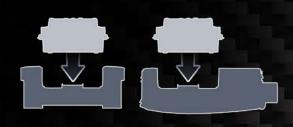
Rectification Full, unipolar +/-, RF

GENERAL

Dimensions 160 x 200 x 45 mm (6.3 x 7.8 x 1.9 in.)

Weight 0.45 kg (1.8 lbs)

Operating -10 to 40 C (14 to 104 F) Temperature



Snaps on PragmaLite and PragmaPod platforms UNIFORD-R.M. Kft

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IPEX PAUT connector, 2 pulser-receivers and Encoders (I/Os)



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