PragmaPro

Portable Instrument Platform for Advanced Nondestructive Testing

For Field Inspections, MRO,
Procedure Development, Training and R&D

The PragmaPro platform provides a flexible man-machine interface with touchscreen, scrollwheels and rubber keypad, with a wide ultra-bright display. It's very versatile for different contexts, on site or in the lab.

With a low-power yet very fast CPU, plenty of peripherals, and Linux operating system, it has all the horsepower to accommodate the most challenging applications.

Compact
CNC-machined aluminium enclosure, for durability and fanless operation.

Modular
Can connect one of several cartridges available, for a choice of modality: UT, PAUT, ECT, ECA, etc.

Bright Screen
Wide 9" WXGA screen of 1280x768 pixels, with best-in-class brightness and contrast in a wide viewing angle.

Rubber Keypad
Silicone rubber keypad with nice tactile feedback and ideal for harsh conditions.

Touch-Enabled
Capacitive touch technology under a chemically enhanced glass for scratch-proofness andtolerance to UT couplant and dirt.

Scrollwheels
7 scrollwheels for fast scrolling of menus and parameters, because touch screen is not always the solution on the field.

Multiple Peripherals
Plenty of connectors to interface with: 4x USB, 1x HDMI, 1x Gigabit Ethernet.

The UNITOP silicone keypad provides a nice tactile feedback and will prevent dirt adherence. The keypad maintains its feel and performance over a wide temperature range. The protective glass is scratchproof.

The multi-touchscreen allows a very intuitive navigation and control of the instrument.

The QuickFlow™ button and scrollwheels allow the user to quickly access the relevant parameters, an inspiration from the vintage flaw detectors.

The PragmaPro is modular and ready to support several cartridges for UT, PAUT, ECT, ECA and other advanced NDT methods.

Computer System

Processor	ARM 1 GHz Quad-Core
RAM	2 GBytes, DDR3
On-Board Storage	16 GBytes
USB Ports	2x USB 2.0 + 2x USB 2.0 (in sealed compartment) Storage of up to 128 GBytes on memsticks
SD Port	1x SDHC (in sealed compartment) Storage of up to 128 GBytes on cards
Data File Size	Max 4 GBytes per file
Video Output	HDMI
Network	Ethernet 10/100/1000 (GigE)
Audio Output	2.5mm (1/8 in) stereo mini-jack
WiFi	802.11b/g/n/ac (via USB in sealed compartment)

Keypad

Type	Integral "UNITOP" silicone rubber membrane
Keys	20 tactile feedback keys
Scrollwheels	1x Side Wheel 1x QuickFlow™ Wheel 6x Mini-Wheels
Alarm LEDs	4x LED bars, user-defined colors
Status LEDs	2x Battery status 1x DC input 1x Power ON/OFF

Display

Display Size	23 cm (9.0 in.) diagonal
Resolution	1280 x 768
Brightness	800 cd/m^2
Number of Colors	16.7 millions
Type	TFT LCD with LED backlight
Touchscreen	Active PCAP, multi-touch
Protection	Thick scratchproof glass (CEG)

Power Supply

Battery Type	Li-Ion 14.4V
Number of Batteries	2 slots, hot-swappable
Battery Life	Up to 12 hours with 2 batteries
Power Pack	AC/DC 24 VDC, max. 96 Watts

Environmental

Dimensions & Weight	305 x 232 x 100 mm (WxHxT) (12.0 x 9.1 x 3.9 in.) 4.0 kg (8.8 lbs)
Operating Temperature	-10 to +45 C (14 to 113 F) typical
Storage Temperature	-20 to +70 C (-4 to 158 F)
Relative Humidity	0 to 90% noncondensing Designed for IP66 and MIL-STD-810G 507.5
Rain and Sand Proofness	Designed for IP66 and MIL-STD-810G 506.5/510.5
Shockproof Rating	Designed for MIL-STD-810G 516.6