



# PragmaFlex

## Portable NDE 4.0 Instrument Platform

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

The PragmaFlex platform marks a milestone in nondestructive testing history as it is the first ever instrument designed with NDE 4.0 principles in mind.

Aiming at the integration of tools, test methods and digital technologies, this sets the stage for new breakthroughs in nondestructive testing.

With a powerful CPU, wide diversity of peripherals and Windows IoT operating system, it has ample resources to accommodate the most challenging applications.

### ■ Multi-Modality

Able to support one or two of several modalities to choose from: UT, PAUT, ECT, ECA, etc.

### ■ Wide Bright Screen

Ultrawide 12.3" WXGA screen with a 21:9 aspect ratio, with best-in-class automotive-grade brightness and viewing angle.

### ■ Dual Keypad

Outer silicone rubber keypad with backlight featuring tactile feedback / ideal for harsh conditions plus inner QWERTY keypad enabling rapid entry of Files Names, Report Content and more.

### ■ Touch-Enabled

Capacitive touch technology under scratchproof chemically-enhanced glass with high tolerance to UT couplant, dirt and other contaminants.

### ■ Powerful Computer Platform

Well-balanced CPU in terms of power consumption, performance, GPU capability and RAM, similar to high-performance engineering laptops.

### ■ Multiple Peripherals

Multiple connectors to interface with: 4x USB type A, 1x HDMI, 2x Gigabit Ethernet, 1x Audio 2.5mm Headphone+mic, 1x Power In/Out, 1x GPIO.

### ■ Compact

CNC-machined aluminium enclosure, for durability and heat dissipation.



Seamless integration with market-leading 6DOF positioning devices like Hexagon's CMM arms and laser trackers for full 3D data acquisition.



Supports Microsoft HoloLens for an immersive user experience and allowing remote inspection capability.



Built-in joystick controller for magwheel crawlers and XY scanners.



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

### Computer System

Processor	2.0 GHz Quad-Core, Four-Threads
RAM	8 GBytes, LPDDR4
On-Board Storage	Removable SSD drive, 256 GBytes (more in option)
USB Ports	4x USB 3 (Type-A)
Graphics	Intel® UHD Gen 11, 4 GB Memory
Operating System	Windows 11 IoT Enterprise
Video Output	HDMI 2.0b
Network	2 x Ethernet 10/100/1000
Audio Output	2.5mm (1/8 in) stereo mini-jack incl. microphone
Wireless	Embedded WiFi 802.11 AC, 2.4G & 5G Embedded Bluetooth 5.2 (Possible to order without)

### Keypads

Outer Keypad	Integral silicone rubber membrane 29 tactile feedback keys, with backlight
Inner Keypad	Membrane switch 55 tactile feedback keys
Joystick	For 1- or 2-axis crawler/scanner control
Log Speed Indicator	LED indicator of the speed level for scanners/robots
Power Status LEDs	2x Battery status 1x DC input 1x Power ON/OFF

### Display

Display Size	12.3 in. diagonal, 292 x 109 mm
Panel Type	IPS
Touchscreen	Active PCAP, multi-touch 10 gestures
Protection	Chemically-enhanced scratchproof glass (CEG)

### Power Supply

Battery Type	Li-Ion 14.4V
Number of Batteries	2 slots, hot-swappable
Battery Life	Up to 8 hours with 2 batteries
Power Pack	AC/DC 24 VDC, max. 96 Watts

### Environmental

Dimensions & Weight	355 x 255 x 125 mm (WxHxT) (13.9 x 10.0 x 4.9 in.) 7.2 kg (16 lbs) incl. 2 batteries
Operating Temperature	-10 to +45 C (14 to 113 F) typ.
Storage Temperature	-20 to +70 C (-4 to 158 F) typ.
Relative Humidity	0 to 90% noncondensing
Rain and Sand Proofness	Designed for IP64 and MIL-STD-810G 506.5/510.5
Shockproof Rating	Designed for MIL-STD-810G 516.6

### SKUs

PRG-FLEX	Portable NDE 4.0 Instrument Platform, standard configuration
PRG-FLEX-NOWIFI	Portable NDE 4.0 Instrument Platform without WiFi capability