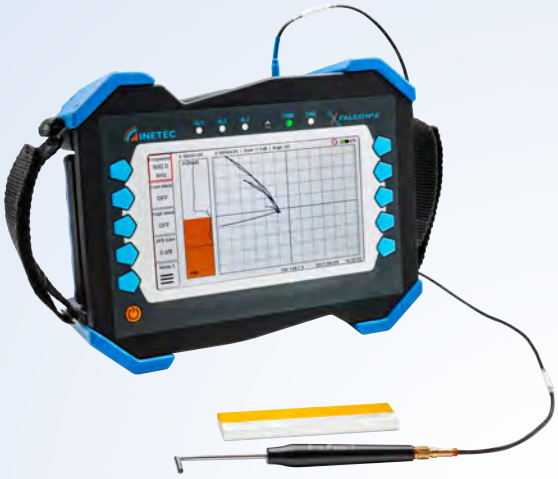
FALCON A //

Developed with vision
Designed with passion
Built with knowledge



Small size, high screen-to-body EC array instrument

FALCON A // instrument is a completely optimized device for hand-held inspections in the aviation industry. Created by the same team which delivered top performance in Falcon instruments and combined with 20+ years of NDT experience in aviation industry, FALCON A // promises the best user experience and speed you've ever experienced.

It's time to advance.

Designed by NDT technician for NDT technicians

Key handling features

- The instrument is completely symmetrical for left or right hand use. User interface, the mechanical center of weight, hand grip and software functions enable users to perform equally well with any hand, making the inspection of both sides of airplane easier.
- Two-finger guiding principle – using only two fingers (thumb and index finger), users can have complete control over all inspection functionalities in the user interface! No need to reposition the hand, applicable for both left and right-side usage mode.
- Connectors and cabling: except for LEMO smart connectors, there is still the familiar and convenient BNC connector, connecting simple pencil probes from any manufacturer. No cable adapters needed. LEMO connectors provide smart features such as probe auto-recognition, INETEC smart probes with centering/balancing function available on the probe handle, support for mini-drive for rotational inspection, array probes, conductivity and thickness probes etc. All probes can be connected using only one cable (except for array probes), making it much simpler to carry and setup.
- The instrument works flawlessly with augmented reality (AR) glasses that provide "heads-up display" functionality for the user – together with our smart probes, there is no need to hold the instrument. Put the AR glasses on, hang the instrument and focus on the probe position on the inspection object. Also, users can open NTM PDF document to check the inspection procedure anytime.

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Key convenience features

- The instrument is small and compact and battery can be exchanged easily.
- Battery life is 8+ hours depending on the inspection mode.
- Users can choose left/right, dark/light user interface, display brightness can be adjusted automatically based on the surrounding lighting conditions – saving battery when in darker surroundings, providing excellent readable display in direct sunlight, no reflection.
- Battery can be fast-charged using USB smartphone type-C chargers. Forget the charger hassle, use the same for your instrument and smartphone. Batteries can also be charged on external desk-top charger if preferred.

Versatile and cost-effective

FALCON A // is ideal for measuring:

EC – LF and HF probes, sliding probes, weld probes etc.

Rotational inspection – connected with INETEC's mini-drive all standard rotational probes

ECA – surface array probes providing C-scan view

Conductivity and coating thickness

Features flexible connectivity

You can interact with and transfer files through Wi-Fi, Bluetooth or Ethernet. Local web server on the instrument provides fast data accessibility from any device (smartphone or PC) without any additional software requirements – just go to your favorite browser, enter device IP address and you are ready to do your job.

Upgrade firmware, access configuration files, probes configurations, reports, recorded data or screenshots within seconds.

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Specification

Size (W × H × D)	245 x 170 x 80 mm
Weight	1.8 kg
Multi-Touch Display	7“ touch display with user controls and acquisition software
Battery Life	8 hours (1 battery)
Eddy Current Connector	18-pin LEMO or BNC connector
Eddy Current Array Connector	26-pin LEMO connector
Connectivity	Ethernet, Wi-Fi, USB-A, Bluetooth
Encoders	2 axes, quadrature and pulsed direction
Probe Recognition and Setup	Automatic by probe detection or manual by loading probe preset
Coil Inputs	2
Frequencies Per Timeslot	Up to 5 simultaneous frequencies
Data Channels	Up to 160
Maximum Probe Coils	32
Frequency Range	10Hz-6MHz
Generator Output	Up to 20 Vpp
Injection Modes	Continuous mode, Time-multiplexed, Super-multiplex (multi frequency)
Receiver Gain	Default 27.5 dB, 33.5 dB, 39.5 dB, 45.5 dB
Data Resolution	16 bit
Probe Drive	1
Filters	High pass, Low pass, Band pass
Alarms	Yes, 3 x LED with audio alarm
Charger specification	USB, TYPE C
Operating temperature	0–40 °C (32–104 °F)

Falcon A // is certified as per ISO 15548-1:2013. The INETEC Quality Safety Environmental Management System is based on ISO 9001:2015, ISO 14001:2015, ISO 45001:2021 and ISO 17025:2017.

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