

# AMIGO2

High performance, True ACFM®



# EVOLVING ALTERNATING CURRENT FIELD MEASUREMENT

Over its 30-year history, ACFM® technology has developed a solid reputation for rapid detection and accurate sizing surface-breaking cracks through paint and coatings. The original Amigo® ACFM instrument has earned a reputation for ruggedness, reliability, and ease of use. As the industry demands increased performance in speed, signal quality, and portability, it's time for an evolution. It's time for Amigo2.

## Faster Inspections and Better Data

Amigo2 is engineered around a highly advanced signal acquisition and processing system able to process data significantly faster than the original Amigo, for a data range that's 14 times better. This offers you smoother, higher resolution indications that increase the detectability of small defects and the coating thickness through which you can inspect.

## Portable with Embedded and Remote Software

Amigo2 is a self-contained unit incorporating electronics, multi-touch display, and storage in one rugged enclosure. This removes the need for a remote computer and cables, enhancing portability. Of course, those of you who still wish to use a remote computer still can.

## Backward Compatibility Probes

Amigo2 comes equipped with a connector supporting the use of all original Amigo probes—\*array and standard manual probes—simply by importing the relevant QPC files. Pace® pencil probes are also supported through a dedicated Sensu® connector. Furthermore, you can connect several probes to Amigo2 at the same time, rapidly switching between them in the software.

## Applications

Amigo2's main focus is detecting and sizing surface-breaking cracks in a variety of cracks in ferromagnetic and austenitic steels components through paint and coatings. Its numerous application areas include:

- Underwater inspection
- Weld inspection: w/ standard probes and single-pass \*array probes
- One or two-person operation (e.g., confined spaces)
- High-temperature applications
- Inspection through thick coatings
- Thread inspection
- Splash zone inspection

\*Array probes not supported by the Amigo2 SE

## The Essence of ACFM: Assist

Experienced ACFM operators will feel immediately at home—with familiar Bx/Bz traces and butterfly taking center stage on the Amigo2 screen—while the multi-touch interface offers a highly intuitive access to all software functions in ribbon form.



## Get Service at all Eddyfi Technologies Centers Around the Globe

Maintenance is key in keeping your valuable asset in peak working condition. Access to our worldwide support centers gives you fast turnarounds, which minimizes shipping and lost opportunity costs by keeping your Amigo2 in the field longer.

# A PLATFORM FOR EVOLUTION

Amigo2 features a Sensu2 connector which will be used by a new generation of ACFM probes—manual or array. The Sensu2 connector supports up to eight digital inputs for high-speed, large-array applications. Together, Amigo2 and its Assist software are fully designed and ready to support the evolution of ACFM probes.

## Amigo Models Comparison

AMIGO (DISCONTINUED MODEL)	AMIGO2	AMIGO2 SE
Limited acquisition speed (single analog input)	Faster acquisition speed (2-8 digital inputs)	Faster acquisition speed (2 digital inputs)
Legacy connector only	Legacy AMIGO, SENSU1 (PACE) and SENSU2 probe connectors	Legacy AMIGO, SENSU1 (PACE) and SENSU2 probe connectors
Optional *Slow scanning array	Built-in *High speed array	Single element
Probe configurations stored on PC as a separate file	Probe configurations stored directly on probe (SENSU1 or SENSU2)	Probe configurations stored directly on probe (Single element probes only)
Single Frequency—upgradable to dual	Dual/Multiple Frequency	Dual/Multiple Frequency
Legacy Assist software on separate PC	Integrated (touchscreen) or RDAU (Laptop). New intuitive Assist software on continuous evolution	Integrated (touchscreen) or RDAU (Laptop). New intuitive Assist software on continuous evolution
1 x Encoder Input (via probe)	2 x Encoder Inputs—via probe or external IO Connector	2 x Encoder Inputs—via probe or external IO Connector



\*Array probes not supported by the Amigo SE

# SPECIFICATIONS

INSTRUMENT		ENVIRONMENTAL	
Dimensions (W x H x D)	355 x 288 x 127 mm (14.0 x 11.3 x 5.0 in)	IP Rating	Designed for IP65
Weight (with 1 x battery)	6.6 kg (14.5 lb)	Operating Temperature	0–40°C (32–104°F)
Volume	13 L (791 in <sup>3</sup> )	Operating Humidity	95%, non-condensing
Power Requirements	100–240 VAC ± 10% 50–60 Hz	Storage Temperature	-20–60°C (-4–140°F)
Power Supply	Direct VAC (100 W) or onboard batteries	Storage Humidity	95%, non-condensing
Batteries	Type	ASME, EN 61010-1, CE, WEEE, FCC Part 15B, ICES-003, AS/NZS CISPR 22, RoHS	
	Typical Life		
	6–8 hours (with both batteries in the instrument)	Compliance	
Video Output	HDMI		
Encoders	2 axes, quadrature		
Connectivity	Gigabit Ethernet, Wi-Fi, Dual Mode Bluetooth® 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE), USB 2.0 (x3)		
Display	26.4 cm (10.4 in)		
	Non-reflective (AR coating)		
	Anti-fingerprint (oleophobic coating)		
	3 mm (1/8 in), chemically strengthened glass cover		
	Optically bonded LCD and touchscreen		
Storage	SSD, 100 GB		
Cooling	Sealed and fanless		
Probe Inputs	SENSU, Sensu2, AMIGO		
Supported probe cable length	Maximum 50 meters (164.04 ft)		
Frequency	5 kHz and 50 kHz		
Data Resolution	16 bits		

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