

## AIR-COUPLED ULTRASONIC DETECTOR CODE UFD-AW

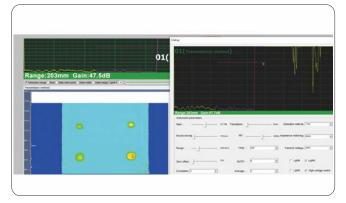
- Suitable for all types of aerospace composites, lithium batteries, water-repellent or slightly porous materials, as well as non-metallic materials that are susceptible to damage or intrusion of foreign objects
- Non-contact ultrasonic detection without coupling agent, detection distance from a few millimeters to several tens of millimeters
- Inspection of thin, rough or curved workpieces, which are less affected by the inspection surface
- Can withstand certain high and low temperature material testing
- A-scan, B-scan, C-scan imaging available
- Multi-channel automated scanning devices can be adapted to the size of the parts to be scanned



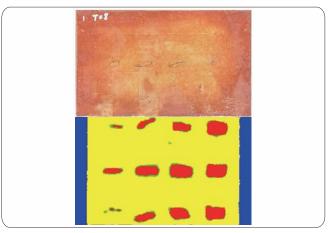
**CUSTOMIZED ACCORDING** 



software parameter setting interface



scanning measurement function interface



scanning display interface

## **SPECIFICATION**

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Accept parameters	sampling frequency/bit depth	100MHz/14bits
	receiver bandwidth	35kHz~2MHz
	gain range	0~120dB, step 0.1dB
	gain linearity	cumulative error within every 20dB ≤±1dB; cumulative error within every 60dB ≤±2dB
	equivalent input noise	1.5nV/√HZ
Launch parameters	number of channels	unlimited combinations
	transmission frequency range	50kHz~2MHz (adjustable pulse count)
	transmission voltage amplitude	highest 400V (customizable 800V)
	transmission voltage waveform	square wave
	maximum output power	2kW (400V), 4kW (800V)
	pulse repetition frequency	15~1000k
Probe parameters	frequency range	50kHz~2MHz (adjustable pulse count)
	relative sensitivity	≤30dB
	resolution	≤2mm
	focusing method	fixed focus or electronic deflection focusing
Hardware parameters	scanning range	280×180mm (customizable)
	maximum scanning speed	800mm/s
	repeatability	0.1mm
	detection method	positive-wave、negative-wave、RF-wave、full-wave
	impedance matching	200Ω, 500Ω
	operating temperature	0~40°C, relative humidity: ≤85%
	power supply	220V, 50Hz
	dimensions (L×W×H)	600×520×800mm (customizable)

## STANDARD DELIVERY

Main unit	1pc
Mechanical system	1pc
Control system	1pc
Data processing system	1pc
Ultrasonic transducer	2pcs