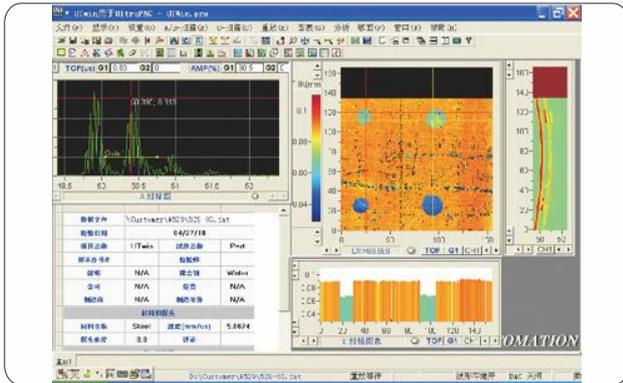
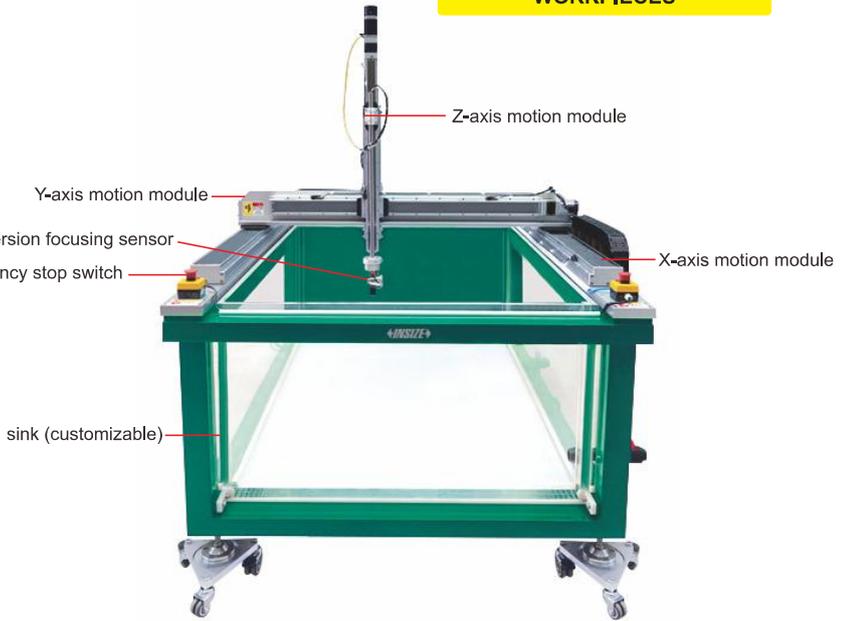


ULTRASONIC WATER IMMERSION DETECTION SYSTEM

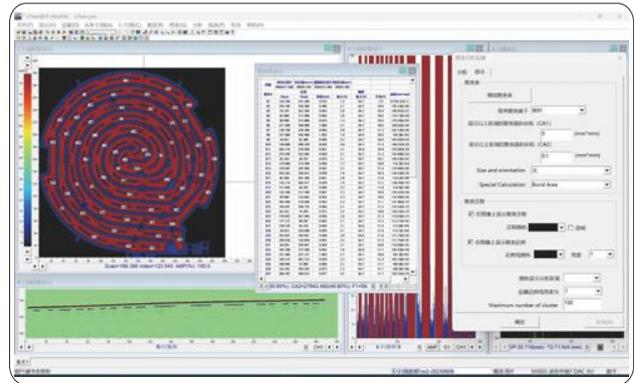
PART No. UFD-CW□□□

CUSTOMIZED ACCORDING TO WORKPIECES

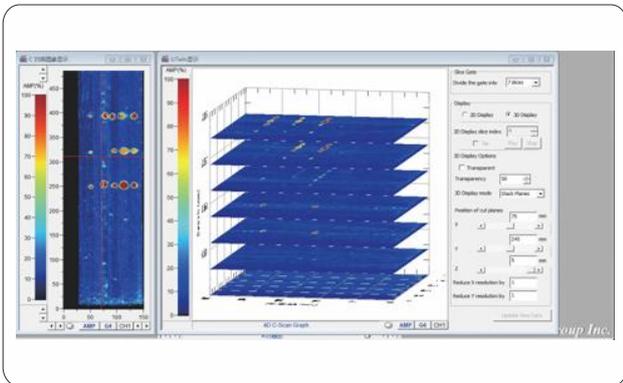
- Suitable for automatic scanning of inclusions, cracks, porosity, delamination and other defects in metal and composite parts
- High-speed ultrasonic acquisition module based on PCIe architecture
- Highly integrated ultrasonic A, B, C all-in-one scanning software, all functions in a single interface operation, easy to use
- Automatic localization, quantification, and statistical calculation of defects
- Automatically adapted to the wall thickness, each threshold can be set as an Intelligent threshold, which automatically adjusts the width, height and other parameters of the threshold as the position changes. parameters with positional changes, so that a single scan of a workpiece with a variable cross-section thickness can be realized
- Powerful software and intelligent algorithms, automatically statistics defects



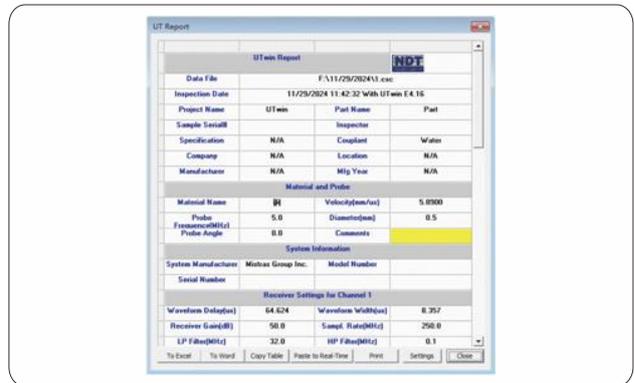
A, B, C, scanning integrated image interface



defect automatic measurement function interface



ultrasonic tomography (CT) interface



UT reporting interface

FUNCTIONS

Scanning mode	real-time A,B,C scanning and image display
Defect localization	automatic tracking and localization of defects
Analysis of defects	quantitative analysis of material defects-Cluster function
Intelligent threshold	automatically generate each corresponding image as well as difference and ratio images between gates
Automated statistics	function to automatically find the maximum and minimum points
Full waveform storage	full-wave RF record analysis and C-scan result reconstruction function

SPECIFICATION

Working gate	4 (different gate delays, width control, transient thresholds and detection thresholds)
Working frequency	0.1~32MHz
Material velocity	.79"~3937"/s
Repetition frequency	1~14000Hz (non-time-shared sampling)
Sampling frequency	Max 250M
Gain	110dB, step 0.1dB
Detection accuracy	meets the AAA level detection accuracy in the standard (e.g. detection sensitivity \varnothing .016"-15dB in 20# mold steel)
Vertical linearity error	$\leq \pm 2\%$ (within 5~95%)
Horizontal linearity error	$\leq \pm 1\%$ (within the range of 0~90%)
Ultrasonic pulse wave modes	sharp wave, square wave, linear fm pulse, group pulse group pulse
Trigger mode	software control, external Input, signal threshold
Threshold control	program can control 1~100% full screen
A/D converter	14 bits
Valid itinerary	47.24x35.43x19.68"
Operation environment	temperature: 14°F~113°F, relative humidity: $\leq 85\%$
Power supply	220V, 50HZ
Dimension	58.27x46.85x67.72" (customizable)