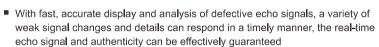


DIGITAL ULTRASONIC FLAW DETECTOR (ADVANCED TYPE) CODE UFD-P710





- For the detection of high attenuation materials or thick workpiece has excellent penetration and letter ratio; sharp wave excitation technology and adjustable pulse width, pulse voltage, emission anisotropic square wave technology in the detection of thin workpiece and composite materials have a high resolution
- FIR digital filtering technology better signal-to-noise ratio; probe frequency harmonic analysis, can better analyze the probe performance information
- Automatic calibration of material speed of sound, probe delay, probe K value; convenient DAC, AVG curve creation and application
- USB HOST interface, can be connected to an external U disk to achieve data transfer; can be connected to an external WIFI module to achieve communication with other wireless devices
- HDMI video output for flaw detection and teaching presentations
- Ultra-large capacity storage space for continuous dynamic recording data storage
- Wireless phased array module can be connected, so that the conventional ultrasonic flaw detector has the same detection function as phased array instrument



single-element straight probe (included)



single-element angle probe (included)



Wireless phased array module (optional)



phased array probe (optional)



external wireless phased array module (optional)

FUNCTIONS

I DINCTIONS					
Flaw detection standard	built-in common flaw detection standards, direct call, convenient and fast				
Auto calibration	automatic calibration of probe zero offset, probe angle (K value) and material velocity				
Peak hold	compare frozen peak waveforms to live A-Scans to easily interpret test results				
Flaw locating	live display sound-path, projection (surface distance), depth, amplitude				
Flaw discrimination	automatic flaw sizing using AVG or DAC, speeds reporting of defect acceptance or rejection				
Flaw sizing	the equivalent dB value of defects or equivalent size of defects are displayed in real time				
Curved surface correction	used for flaw detection of curved workpiece, it can display the circumferential position of defects in real time				
DAC/AVG	the curve is automatically generated, and the sampling points can be compensated and corrected. The curve automatically floats with the gain, automatically expands with the detection distance, and automatically moves with the delay time. It can display the AVG curve of any aperture				
AWS D1.1/1.5	choosing this standard can reduce manual calculations and improve detection efficiency				
Automatic rating	select different AWS standards, automatically calculate the rating of defects and display				
Crack height	the crack height is measured and calculated automatically by the diffracted wave at the end				
Gate magnify	spreading of the gate range over the entire screen width				
Continuous record	video recording and playback				
Echo coding	display 1~9 echo display area in different colors, used to analyze the defect position				
Scan freeze	display freeze holds waveform and test distance data				
Peak mark	capture and mark the peak in real time				
B scan	intuitively display the defect shape of the workpiece and the detection result is more intuitive				

SPECIFICATION

	0. (0000				
Measuring range	0~10000mm				
Working frequency	0.5~20MHz				
Material velocity	1000~15000m/s, adjustable in continuity; 30 pre-set nominated velocities for common materials				
Repetition frequency	25~1600Hz				
Dynamic range	≥32dB				
Gain range	0.0~110dB (steps: 0.1dB, 1.0dB, 2.0dB, 6.0dB)				
Vertical linearity	≤3.0%				
Horizontal linearity	≤0.4%				
Resolving power	>26dB (2.5P20)				
Sensitivity leavings	>62dB (200Ø2 flat bottom hole, narrow band)				
Attenuator	12dB±1dB				
Suppression	0~99%				
Noise	≤10%				
Disp l ay screen	5.7"TFT color LCD, resolution 640X480				
Pulse type	sharp wave, negative square wave, bipolar square wave; transmit voltage 50~250V adjustable, step 50V				
Pulse shift	-7.5~3000us				
Probe zeroing	0~200us				
Rectification	positive, negative, fu ll- play, RF				
Gates and alarms	two-way gate, optional: into the wave alarm, lost wave alarm, DAV curve alarm, alarm signal for sound and light alarms measurement mode: peak, frontal				
Interface	Q9 (BNC), USB HOST, Mini HDMI				
Damping	$400\Omega,80\Omega$				
Power	rechargeable lithium-ion battery, working time 6~8 h				
Storage temperature	-30~50°C				
Relative humidity	20~95%RH				
Size	246×166×50mm				
Weight	1.3kg				

STANDARD DELIVERY

Main unit	1 pc
Single-element straight probe UFD-P70	1 pc
Single-element angle probe UFD-P71	1 pc
Probe connecting cable	2 pcs
Mainframe backpack	1 pc
USB disk	1 pc
Power adapters	1 pc

OPTIONAL ACCESSORY

Probe	refer to specification of transducers	
Wireless phased array module	UFD-PA11	
Phased array probe	UFD-PA06	

SPECIFICATION OF PROBES

Code	Frequency	Size	Probe type	Probe transducer angle
UFD-P70 (included)	2.5MHz	Ø20mm	Single-element straight probe	90°
UFD-P71 (included)	2.5MHz	13x13mm	Single-element angle probe	45°
UFD-P72 (optional)	2.5MHz	Ø14mm	Dual-element straight probe	90°
UFD-P73 (optional)	5.0MHz	Ø20mm	Single-element straight probe	90°
UFD-P74 (optional)	2.5MHz	13x13mm	Single-element angle probe	63.4°
UFD-P75 (optional)	5.0MHz	8x12mm	Single-element angle probe	68 . 2°

Note: Other probes can be customized according to customer requirements

SPECIFICATION OF PHASED ARRAY PROBE (OPTIONAL) Code E-Nos Pitch (mm) | Elev (mm) Ptd. angle Ptd. material Frequency 1.0

plexiglass

UFD-PA06 (optional)

2.5MHz