

## DIGITAL ULTRASONIC FLAW DETECTOR (STANDARD TYPE) PART No. UFD-F720

- Compact and lightweight, easy to carry
- High sensitivity, accurate defect positioning, super anti-interference ability, stable and reliable performance
- Built-in automatic performance test function
- Unique square wave excitation signal processing technology
- The background color and brightness can be freely adjusted to adapt to strong or low light environments to ensure a clear display
- Real-time dynamic recording of detection waveforms, data, rapid export via U disk



straight-beam probe  
(included)



angle-beam probe  
(included)

### FUNCTIONS

<b>Flaw detection standard</b>	Built-in common flaw detection standards, direct call, convenient and fast
<b>Auto calibration</b>	Automatic calibration of probe zero offset, probe angle (K value) and material velocity
<b>Peak hold</b>	Compare frozen peak waveforms to live A-Scans to easily interpret test results
<b>Flaw locating</b>	Real-time display of defect level, depth (vertical), sound range projection
<b>Flaw discrimination</b>	Automatic flaw sizing using AVG or DAC, speeds reporting of defect acceptance or rejection
<b>Flaw sizing</b>	The equivalent dB value of defects or equivalent size of defects are displayed in real time
<b>DAC/AVG</b>	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
<b>AWS D1.1</b>	Choosing this standard can reduce manual calculations and improve detection efficiency
<b>Automatic rating</b>	Select different AWS standards, automatically calculate the rating of defects and display
<b>Gate magnify</b>	Spreading of the gate range over the entire screen width
<b>Continuous record</b>	Real-time waveform recording, storage and playback
<b>Scan freeze</b>	Display freeze holds waveform and test distance data
<b>Peak mark</b>	Capture and mark the peak in real time

**SPECIFICATION**

Measuring range	0~590.55"
Working frequency	0.4~20MHz
Material velocity	0~393.7"/s
Dynamic range	≥36dB
Gain range	0~110dB (steps:0.1dB,1.0dB,2.0dB,6.0dB,12dB)
Vertical linearity	≤3.0%
Horizontal linearity	≤0.1%
Resolving power	>36dB
Sensitivity leavings	>62dB (200Ø2 flat bottom hole, narrow band)
Attenuator	20dB±1dB
Suppression	0~90%
Pulse energy	400V
Noise	≤10%
Pulse front	≤10ns
Disply screen	5.7"TFT color LCD, resolution 640x480
Probe selection	straight probe, angle probe, penetrating probe, climbing probe
Gates	Incoming wave gate, lost wave gate, single gate reading, double gate reading
Alarms	Incoming wave alarm, lost wave alarm, double gate alarm, buzzer alarm, LED light alarm
Interface	Q9 (BNC), USB 2.0, VGA
Operating temperature	-4~122°F
Relative humidity	20~95%
Power	rechargeable lithium-ion battery
Size (LxWxH)	8.98×5.51×1.65"
Weight	2.20lb

**STANDARD DELIVERY**

Main unit	1 pc
Single-element straight probe (UFD-F70)	1 pc
Single-element angle probe (UFD-F71)	1 pc
Probe connecting cable	2 pcs
USB cable	1 pc
Mainframe backpack	1 pc
USB disk	1 pc
Power adapter	1 pc

**SPECIFICATION OF PROBE**

Part no.	Frenquency	Size	Probe type	Probe sensor angle
UFD-F70 (included)	2.5MHz	.787"DIA	Single-element straight probe	90°
UFD-F71 (included)	2.5MHz	.512x.512"	Single-element angle probe	63.4°
UFD-F72 (optional)	5.0MHz	.393"DIA	Dual-element straight probe	90°
UFD-F73 (optional)	5.0MHz	.393"DIA	Single-element straight probe	90°
UFD-F74 (optional)	2.5MHz	.354x.354"	Single-element angle probe	45°
UFD-F75 (optional)	2.5MHz	.354x.354"	Single-element angle probe	71.6°

Note: Other probes can be customized according to customer requirements