

DANA-U910

Digital Ultrasonic Flaw Detector

Standard Configuration

| | | | |
|------------------------|---|---------------------|---|
| Main unit | 1 | Warranty card | 1 |
| Straight probe | 1 | Product Certificate | 1 |
| Angle probe | 1 | Instruction manual | 1 |
| probe connecting cable | 2 | Software | 1 |
| Power adaptor | 1 | Instrument case | 1 |



⊕ Introduction

Digital ultrasonic flaw detector is advanced type, can quickly, easily and without damage, accurately detect, locate, evaluate and diagnose various defects inside the work-piece such as cracks, welds, pores, sand holes, inclusions, folding, etc. It has been applied for electric power, petrochemical, boiler and pressure vessel, steel structure, military, aerospace, railway transportation, automobile, machinery and other fields. It is an essential instrument for the non-destructive testing industry.

⊕ Features

- Measurement display mode: positive wave, negative wave, full wave and RF wave
- It has a linear suppression function, the maximum inhibition is 80% of the screen height
- It can switch between single crystal probe, double crystal probe and two inspection modes
- It has a gate setting and alarm function. The position and width of the gate can be arbitrarily set on the screen, and an incoming wave alarm can be set
- 500 independent detection channels, each channel set a separate set of testing parameters
- Two display modes with angle and K value
- The DAC curve is generated automatically, and up to 10 points can be recorded, with four additional adjustable offset curves
- AVG curve is generated automatically, and two types of defects can be customized
- Automatic probe calibration function
- With storage function, it can store 100 A scan graphic, parameters and DAC curve
- Has a storage graphics playback function, the stored A-scan graphics from the storage area and displayed on the screen
- Has a delete function to delete the specified content (represented by the storage group number) from the storage area
- Peak memory function
- Freeze and thaw functions with waveform and inspection parameters
- With sound path measurement and echo frequency analysis function
- Real-time power status indication function
- Support USB communication interface
- Li-battery, low power consumption, can continuous working more than ten hours
- Can set up buzzer alarm during operation
- Light, convenient, easy to operate

Technical Specification

| Name | Technical data |
|-------------------------------------|--|
| Scan range (mm) | Scan range (mm): 0~10000 |
| | Grades: 2.5,5,10,20, 30,40,50,60,70,80,90, 100,150,200, 250, 300, 350, 400, 450,500, 600,700,800,900,1000,2000,3000,4000,5000,6000,7000,8000,9000, 10000 |
| | Adjusting step distance: 1mm |
| Pulse shift (μs) | Pulse shift (μs): -7 to + 9984 |
| | Grades: -20, -10, 0.0, 10, 20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600,700, 800,900,1000,1500,2000,2500,3000,3400 |
| | Adjustment step:1 (-7s~9984μs) |
| Probe zero point(μs) | Probe zero point: 0.0~99.99 |
| Material sound speed(m/s) | Adjust the step: 0.01 |
| | Material sound speed:1000~15000 |
| | 7 fixed sound speeds:2260,2730,3080,3230,4700,5900,6300 |
| Working methods | Adjust the step:1 |
| Frequency Range(MHz) | Single probe (receive and send), dual probes (one for receiving one for sending) |
| Gain adjustment(dB) | 0.5~20 |
| Linear inhibition | 0~120 Adjust the step:0.2,1,2,4,6,8,10,20,50 |
| Vertical linearity error | Screen height 0% to 80%, step size: 1% |
| Horizontal linear error | Vertical linear error, no more than 3% |
| Flaw detection sensitivity margin | Within the scan range, no more than 0.2% |
| Dynamic Range | 62dB |
| Alarm | 32dB |
| Display screen | Incoming wave alarm |
| A-Scan display area | Display: High-brightness color 5.7 in display |
| Flaw detection channel | Full screen or local / A-Scan shows freeze and thaw A-Scan fills |
| Data storage | 500 |
| PC communication interface standard | 500 A-Scan graphics |
| Units of measurement | USB |
| Power Adapter | Mm |
| Battery | enter 100V~240V/50Hz~60Hz / 13.5V/5A |
| Working temperature (°C) | Lithium (Li) Battery 5000mAh |
| Working humidity (RH) | -10~50°C |
| Interface Type | 20%~90% |
| Dimensions (mm) | BNC |
| Weight(kg) | 220*140*50 |
| | 1.0 |