Digital Ultrasonic Test Instrument
(Ultrasonic Flaw Detector)

UI-27

Sophisticated Multi-use ultrasonic flaw detector

Fulfilling software
High brightness LED monitor
2ch extension (optional)
External output extension (optional)
IP66 water-proof Design
UI-27 will respond for the needs of all people.
We have aggregated the technology required for the portable flaw detector. UI-27 is a multi-use flaw detector that can respond to B-scan, manual inspection, automated inspection and special applications.
UI-27 provides perfect inspection conditions. Built-in 12 frequency band filters deliver high-sensitivity testing by optimal receiving band.

200 MHz sampling frequency will improve the distance measurement accuracy and the material thickness measurement accuracy.

The simultaneous display function for distance value “y” and depth value “d” on the screen.

Batch setting of inspection conditions is possible.

The simultaneous distance display function of in the water sound velocity and in the steel sound velocity.

Options:

External output function: Recorder signals, Control signals.

2ch expansion: 2ch simultaneous synchronization inspection is possible.
UI-27 DIGITAL ULTRASONIC INSTRUMENT

Display
Screen size: 6.5"VGA a-Si TFT active-matrix
Display area: 132.5 X 99.5
Pixels: 640(W) X 480(H)
A scan pixels: 424(W) X 316(H)
Max 530(W) X 421(H)

Frequency analysis function
Center frequency: 0.25 to 25MHz adjustable
Display range: 50MHz max

Temperature
Ambient temperature: 0 to 40°C (operation)
-20 to 60°C (storage)

Standard functionality
Measurement methods:
single probe / dual probe / transmission technique
Wave form selections: DC / DC+ / DC- / RF
Beam path measurement methods:
Peak / Up / First echo / Zero crossing / Peak up Angle beam technique support function:
12 DAC max, refraction angle measurement
Data storage capacity: In attached 2GB SD card,
600 Conditions and 90,000 Images are stored.
Max SDHC32GB.

Power section
AC adapter: 100 to 240V±10% 50/60Hz 20W
Battery: Li-Ion cell 1. Max 2 in parallel operation.
Battery operation time: approx. 8 Hour / 1 cell
Charging time: approx. 2.5Hr 80%, 5Hr 100%

Interfaces
Card slot: SD memory card
Connectors: USB (master / slave)
LAN / VGA / Encoder (2Axis)
DC inlet
Earphone and microphone (Headset)
(JEITA RC-5240)

Optional extras and Soft Ware
2 Ch. Extension: Set of T/R card, connectors, S/W
Output extension: Set of I/O card, Ext-terminal, S/W
Expansion Battery: Li-Ion cell for parallel operation
Dedicated carrying case: For body and parts storage
TOFDO method: S/W. Scanner supply on request.
ABC-scan display: S/W. Scanner supply on request.
EDAC function: Electrical DAC compensation S/W
Tracking function: S echo tracking function S/W

Standard accessories
1, Li-Ion battery: 1
2, AC adapter: 1
3, SD memory card: 1
4, Manual, Test certificate, Warranty: 1set

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