

Digital Ultrasonic Test Instrument
(Ultrasonic Flaw Detector)

UI-S7α

**More compact design
for greater levels of practicality**



High brightness LED monitor for indoor and outdoor usage.

Dust-proof, drip-proof construction.

Advanced architecture adopted.

Size: 250 (W) x 160 (H) x 86 (D) mm

Weight: Approx. 2 kg (incl. battery)

Battery operating time: Approx. 10 hours (Depend on conditions)

UI-S7 α 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)
530(W) X 421(H) Enlargement

● Size (mm) • Weight (kg)

250(W) X160(H) X86(D) Approx2kg Incl. Battery

● Case (IP65 Drip-proof)

Reinforced ABS resin (front and rear)

● Transmitter section

Output impedance: 50 Ω or less
P.R.F.: Link with test range
Pulse rise up time: Less than 10ns
Wave form: Square wave pulse
Voltage: Low / Medium / High
Damping: 50 / 300 Ω

● Receiver section

Gain: 110dB (in step of 0.1dB)
Sensitivity: 80dB or better at 5MHz narrow band
Input impedance: 50 Ω ±15% / 300 Ω ±15%
Receiver amplification center frequency:
0.25/ 0.5/ 1/ 2/ 3/ 4/ 5/ 10/ 15/ 25MHz
Amplifier linearity: ±3% Max

● Time-base section

Test range:
1 to 14,556 mm in sound velocity 5900 m/s
Adjustable delay: full scale to 3,000 μ s ±5%
Display time-base linearity: ±1% Max

● Gate section

Delay range:
0 to full scale time range on the display
Gate marker width:
0 to full scale time range on the display
Number of gate: 4

● Standard accessories

1, Li-Ion battery: UI02-LB66: 1
2, AC adapter: UIA345-15: 1
3, SD memory card: 1
4, Neck strap: UIS7NS: 1
5, Hand strap: UIS7HS: 1
6, Manual, Test certificate, Warranty: 1set

● Frequency analysis function

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

● Temperature

Ambient temperature: 0 to 45°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 1,300 Images are stored.

● Power section

AC adapter: 100 to 240V±10% 50/60Hz±3Hz
Battery: Li-Ion cell 1.
Battery operation time: approx. 10 Hours
Charging time: approx. 2.5Hr 80%, 5Hr 100%

● Interfaces

Card slot: SD memory card
Connectors: USB (master)
USB (slave)
DC inlet
Earphone and microphone (Headset)
(JEITA RC-5240)

● Optional extras

1, External charger: UICGS7
2, Soft case (protector): UIS7SC
3, Earphone and microphone
4, USB card reader



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