

UI-S7 DIGITAL ULTRASONIC TEST INSTRUMENT

●Display

| | |
|-------------------|--|
| Screen size | TFT colour LCD 6.5" |
| Display area (mm) | 132.5 × 99.4 |
| Pixels | 640(W) × 480(H) |
| A scan pixels | 424 (W) × 316 (H), Enlargement mode: 530 (W) × 421 (H) |

●Size (mm) · Weight (kg)

| |
|---|
| 250(W) × 160(H) × 86(D) Excluding some projections. Approx. 2kg including one battery |
|---|

●Case (compliant with IP65 drip-proof standard)

| |
|---------------------------------------|
| Reinforced ABS resin (front and rear) |
|---------------------------------------|

●Transmitter section

| | |
|--------------------|----------------------|
| Output impedance | 50 Ω or less |
| P.R.F. | Linked to test range |
| Pulse rise up time | Less than 10ns |
| Waveform | Square-wave pulse |
| Voltage | Low / Medium / High |
| Damping | 50/300Ω |

●Receiver section

| | |
|---|--|
| Gain | 110 dB (in steps of 0.1 dB) |
| Sensitivity | 80 dB or better, 5-MHz narrow band |
| Input impedance by dual probe technique | 50 Ω ± 15%, 300 Ω ± 15% (single probe or dual probe technique) |
| Frequency band settings | 0.25/0.5/1/2/3/4/5/10/15/20/25MHz |
| Amplifier linearity | ± 3% max. |

●Time-base section

| | |
|-----------------------------|---|
| Test range | 1 to 14,556 mm in sound velocity of 5900m/s |
| Adjustable delay | full scale to 3000 μs ± 5% |
| Display time-base linearity | ± 1% max. |

●Gate section

| | |
|-------------------|---|
| Delay range | 0 ~ full scale time base on the display |
| Gate marker width | 0 ~ full scale time base on the display |
| Number of gate | 4 |

●Standard accessories

| | |
|--|--------|
| ① Li-ion battery Type: UI02-LB66 | 1 |
| ② AC adapter Type: UIA345-15 | 1 |
| ③ SD memory card | 1 |
| ④ Neck strap | 1 |
| ⑤ Hand strap | 1 |
| ⑥ Instruction manual, test certificate, warranty | 1 each |



Configuration

●Frequency analysis function

| | |
|----------------------|-------------------------|
| Center frequency | 0.25 ~ 25MHz adjustable |
| Display range (max.) | 50 MHz |

●Power section

| | |
|----------------|---|
| AC adapter | 100 to 240VAC ± 10%, 50/60 Hz ± 3Hz |
| Battery | 1 Li-ion cell |
| Operating time | Approx. 8 hrs (Varies depending on use conditions.) |

| | |
|---------------|---|
| Charging time | Approx. 2.5 hours to 80% of full charge |
| | Approx. 5 hours to full charge |

| | |
|---------------------|--|
| Ambient temperature | 0 to 45°C (for operation), -20 to 60°C (for storage) |
|---------------------|--|

●Interfaces

| | |
|------------|--|
| Card slot | SD memory card |
| Connectors | USB (master) |
| | USB (slave) |
| | DC input (for use with exclusive AC adaptor) |
| | Earphone / microphone (JEITA RC-5240) |

●Standard functionality

| | |
|-------------------------------|--|
| Measurement methods | Single probe and dual probe |
| Waveform selections | DC/DC+/DC-/RF |
| Beam path measurement methods | Peak, Up, First echo, Zero crossing |
| Velocity | 100~15,000m/s With sound-velocity measurement functionality |
| DAC curves | DAC curves for ASME sec.V DAC curves for JIS (JIS Z 3060) |
| Data storage capacity | Determined by memory card size Approx. 340* items with 512 MB provided as standard Approx. 1,300* items with separately-sold 2-GB card |

*Figures assume storage of data and photographs.

●Optional extras

| | |
|----------------------------|--------|
| ① External charger | UICGS7 |
| ② Soft case (for detector) | UIS7SC |
| ③ Earphone/microphone | |
| ④ USB card reader | |



Interface part



Appearance with soft case

RSEC MITSUBISHI Electric Group
RYODEN SHONAN
Electronics Corporation

YAMAZAKI 25, KAMAKURA-CITY, KANAGAWA,
247-0066 JAPAN
URL : <http://www.rsec.co.jp>
E-mail : info@rsec.co.jp

⚠ Safety Warning To ensure proper use of the product listed in this brochure, please be sure to read the instruction manual prior to use.

New publication, effective Nov 2010
Specifications subject to change without notice.

MADE IN JAPAN

MITSUBISHI ELECTRIC Group
Changes for the Better

for a greener tomorrow

Digital Ultrasonic Test Instrument (Ultrasonic Flaw Detector)

UI-S7

— UI-S Series —

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



Bright 6.5" LCD ideal 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. one battery)
Battery operating time: approx. 8 hours *

*Varies slightly depending on use conditions.

RYOSHO