

UI-25

DIGITAL ULTRASONIC TEST INSTRUMENT [ULTRASONIC FLAW DETECTOR]

Frequency analysis function (FFT function)

Large Memory Capacity (CF card)

Bright Display (colour TFT-LCD)



RYOSHO Digital Ultrasonic Test Instrument

Long Battery Life (Li-Ion)
Digital (VGA, PAL, SER) Analog Outputs
Easy Operation

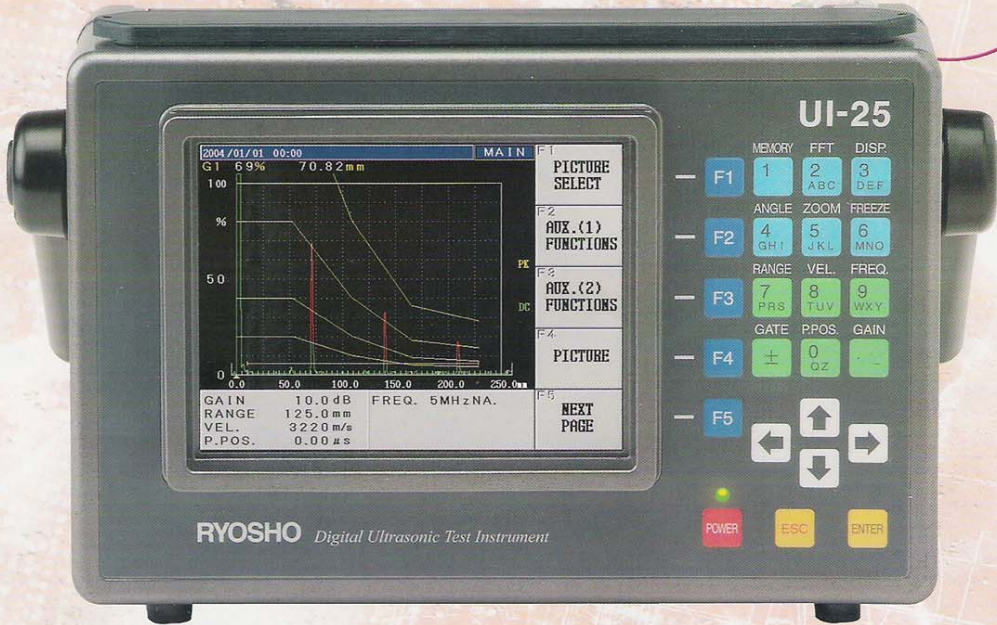
RYOSHO

High technology, High performance and Easy operation!

Frequently used functions can be programmed easily into short-cut key operation.

Measurement and evaluation.

UI-25



Practicable function and easy operation.

COMPACT FLASH MEMORY™

CF	Data memory	Image data (BMP file)
32MB (Attachment)	500	100
256MB	500	1800

*500 data sets store all instrument operating parameters plus A-scan.



Frequency Analysis Function [FFT Function]

ATTAIN HIGHER RELIABILITY OF EXAMINATION RESULTS WITH FREQUENCY ANALYSIS FUNCTION

The measurement and recording of operating frequencies and frequency characteristics of the probe are indispensable for ensuring the reproducibility and traceability of your examination results. The RYOSHO Electronic UI-25 measures operating frequency and frequency characteristics without any other instrument attached. Discontinuity conditions, test object propagation characteristics and acoustic attenuation can be used for forecasting with the frequency analysis results of echo signals.

Power spectrum

-6dB line

Time domain response

Center frequency (fc)
Peak frequency
Upper limit frequency (fu)
Lower limit frequency (fl)

G.CENT : Center freq. of graph
 G.SPAN : Display span
 BW : Band width
 [BW=(fu-fl)÷fc×100 (%)]

Strong & Small

The material of the case is an aluminum alloy and ABS resin.

Bright Display

6.4" colour TFT-LCD
 640×480 pixel density.

Powerful Battery

The Li-Ion battery is adopt cells total capacity 6600 mA/h

UI-25 DIGITAL ULTRASONIC TEST INSTRUMENT SPECIFICATIONS:

●Display

Screen size	TFT colour LCD 6.4"
Display area(mm)	130.6(H) × 97.0(V)
Pixels	640(H) × 480(V)
A scan pixels	424(H) × 315(V)

●Size(mm) · Weight(kg)

270(W) × 175(H) × 98(D) Excluding some projections.
Approx. 3.5kg including one pack of exclusive battery.

●Case materials

Casted Aluminium alloy and ABS resin.

●Transmitter section

Output impedance	VSWR 1.5 or less to 50Ω
P.R.F	Linked to test range 50-4883 Hz ±5%
Pulse rise up time	Less than 35ns

●Receiver section

Sensitivity	86dB or more (At 5MHz and narrow band)
Total adjustable range	0 to 110dB with 0.1dB step
Input impedance (SE mode)	50Ω ±15%
Center frequency and band width	1, 2, 5, 10MHz, wide band: 0.4~14.3MHz
Amplifier linearity	Less than ±3%

●Time-base section

Test range	1~14,500mm in sound velocity of 5900m/s
Adjustable delay	-21~3000μs (TR125mm 5900m/s)
Display time-base linearity	Less than ±1%

●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	2 GATE

●Standard Accessories

① Li-Ion battery	Type: UI01-LB66	1
② AC adapter	Type: UIA345-15	1
③ Compact Flash™ memory card		1
④ Instruction manual (English)		1
⑤ DAC curves for ASME sec. V	Included	



●Frequency analysis function

Center frequency	1~10MHz adjustable
Display range (max.)	20MHz
Measurement window	Rectangular and Hannig

●Power Section

AC adapter	AC100V~240V ±10% .50/60Hz±3Hz
Battery	Li-Ion cells
Operating time	(Per battery) Approx. 6hr (Per 2 batteries) Approx. 12hr

*: Operation time is subject to operation conditions and ambient temperature.

Charging rate	2hr to 0~80% of capacity
	5hr to 0~100% of full capacity

Temperature range	0~45°C (Operating) -20~65°C (Storage)
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●Output

CFcard slot	Type II
Expansion connector	Parallel (printers)
※Need Expansion box and communication cables. (option)	Serial (RS232C)
	VGA
	Analog
	PI/PO (scanners X:Y)
	Keyboard (106)

●UI-25 Options

① External battery charger	Type : UI01-CGB1
② Expansion box	Type : UI25-E1
③ Printer cable	Type : UI25-WP2M Length : 2m
④ VGA cable	Type : UI25-WV1M 1m
⑤ RS232C cable	Type : UI25-WR2M 2m
⑥ Exclusive thermal printer	Type : BL-80R II

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