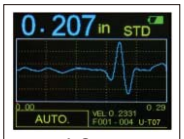
ULTRASONIC THICKNESS GAGE
PART NO. ISU-720D

DATA OUTPUT | WITH A AND B SCAN | PENETRATE NON-METALLIC COATING AND MEASURE THE THICKNESS OF METAL SUBSTRATES

- Two measuring modes, Echo-Echo (E-E) and Transmit-Echo (T-E):
  – E-E is applicable for non-metallic coating (such as paint, plastic resin, etc.) on metal substrates, can penetrate coating and measure the thickness of substrates
  – T-E is to measure the thickness of material without coating, such as metal, plastic, glass, nylon, resin, ceramics, ice, etc.
- A scan, through the waveform, judges whether there are impurities, pores, cracks and so on inside, in order to avoid wrong measurement
- B scan, measures continuously, displays the thickness change on the screen
- Transducers can be automatically identified and zeroed
- Memory 10000 measurement values
- Data can be input to Excel and Word as keyboard signal
- Automatic or manual measurement
- When transducers are removed from workpieces, the measurement data are held on screen for easy viewing
- Set upper and lower limits for alarm when out-of-tolerance
- Automatic power off

VIDEO

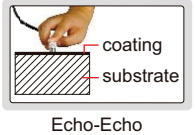


A Scan

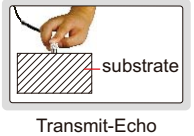
B Scan

SPECIFICATION (ON STEEL)

Measuring range	refer to specification of transducers
Resolution	.01/.001"
Accuracy	±.002" (H<.394") ±(.002"+H/1000)" (.394"≤H<3.937") ±H/333" (H≥3.937") H is the thickness to be measured in inch
Frequency	refer to specification of transducers
Display	320×240, color screen display
Velocity	.0394~.3937inch/μs
Measuring frequency	2 times/second and 10 times/second
Operating temperature of main unit	-4~122°F
Output	USB
Measuring unit	mm/inch
Power supply	2×1.5V AA batteries
Dimension	5.24×2.95×1.14"
Weight	.57lb (including batteries)



Echo-Echo mode (E-E)



Transmit-Echo mode (T-E)

transducer **ISU-T04** (**optional**)

transducer **ISU-T06** (**optional**)

transducer **ISU-T08** (**optional**)

transducer **ISU-T12** (**optional**)

transducer **ISU-T13** (**optional**)

transducer **ISU-T25** (**optional**)

STANDARD DELIVERY

Main unit	1 pc
Bicrystal transducer ISU-T07	1 pc
Battery (AA)	2 pcs
Couplant	1 bottle
USB cable	1 pc

OPTIONAL ACCESSORY

Transducer	ISU-T04, ISU-T06, ISU-T08, ISU-T12, ISU-T13, ISU-T25
Couplant (for ISU-T13)	ISU-HT5-COUPLANT

SPECIFICATION OF TRANSDUCERS (ON STEEL)

Code	Mode	Frenquency	Diameter (d)	Measuring range	Minimum size of pipes for measurement (diameter × wall thickness)	Applicable temperature	Application
ISU-T07 (included)	T-E E-E	5.0MHz	.52"DIA	T-E mode: .059~7.874" E-E mode: .118~.984"	T-E mode: .98×.12"	-4~140°F	general use
ISU-T04 (optional)	T-E	10.0MHz	.24"DIA	.028~.787"	.59×.04"	-4~140°F	for small tubes
ISU-T06 (optional)	T-E	7.5MHz	.35"DIA	.028~1.969"	.59×.05"	-4~140°F	for thin workpieces
ISU-T08 (optional)	T-E	5.0MHz	.43"DIA	.031~11.811"	.98×.05"	-4~140°F	general use
ISU-T12 (optional)	T-E	2.0MHz	.67"DIA	.079~15.748"	1.57×.12"	-4~140°F	for casting iron
ISU-T13 (optional)	T-E	5.0MHz	.59"DIA	.118~3.937"	.98×.08"	32~662°F	for high temperature
ISU-T25 (optional)	T-E	1.0MHz	1.02"DIA	.118~7.874"	–	-4~140°F	for fiberglass and organic material