

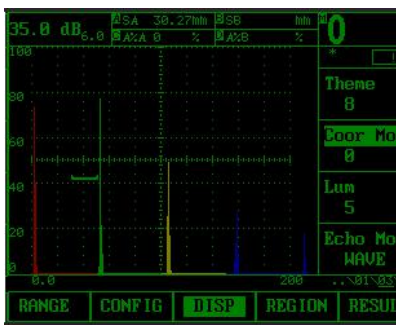


Ultrasonic Flaw Detector

UTM-950

UTM-950:High performance and portability

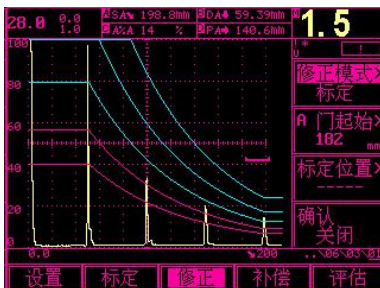
UTM-950 is not only a simple and compact ultrasonic flaw detector with the ultimate lightweight design, long battery life, it is also designed for motion detection ,which perfectly combined the high performance and portability.



Wave Form



Value Display Area



DAC Curve



DGS Curve

FEATURES:

- One Function Key, Easily Operate
- Ideal Menu Style
- Auto Calibration : Velocity, Probe Delay, Angle/K Value

FUNCTION:

- B Scan-Display Flaws Directly
Reducing analysis difficulty , missing detector
- Massive Data Memory
100,000 values
- Electronic Choice : Flaw detector together with high accurate thickness measured
- 5 Intelligent DAC curves , comply to JIS and API standard

OPERATION

- High Accuracy: 10 places for AD samples
- Extra-long Standby Time:
20 hours, getting rid of trouble from battery
- Display screen could be adjusted to provide 5 optimum brightness
- Magnesium alloy case, AP65 encapsulation, strong and durable , avoiding electronic-magnetic interference

SPECIFICATIONS	
Measuring Range	1.0~1500mm
Resolution	0.01mm(<100mm) 1mm(>100mm)
Velocity	500~20000m/s 20 fixed velocity
Delay	-20~3400us /resolution : 0.1us
Probe Delay	0~99us /resolution: 0.01us
Auto Calibration	Velocity Calibration & Probe Delay Calibration
Linear Error	Horizontal error≤0.1% Vertical error≤3%
Dynamic Range	≥36dB
Sensitivity	≥64dB 200mmΦ2 flat-bottomed hole
Dimension (mm)	180×150×50mm
Weight	1.0 Kg (including battery pack)
Working Environment	Temperature: -20°C~70°C Humidity: 5%~90%
Pulse	
Dive Pulse	Negative spikes, high energy/low adjustable
Matched Damp	50/150/400Ω
Receiver	
Detection mode	Pulse echo/transmitting & receiving/transmission
Measuring mode	Peak/Verge
Detector Pattern	0~110dB 0/0.1/0.2/0.5/1/2/6/12/
Detector Pattern	RF/Full-Wave/Positive/Negative/ half-wave
Bandwidth	0.3~1/0.5~4/2~15MHZ

Display	
LCD	TFT Color Display 5 options for variable brightness
Screen Update Rate	≥60Hz
GUI Theme	Strong/weak light 2,the user can through the set text A, background color, sweep waveform coordinate free custom theme
Gate / measuring value / alarm	
Sluice gate	Two Separated Gate A/B
Measured value display	5 measured value display area, where a main display area, Selectable measurement value content SA/SB/DA/DB/PA/PB/A%A/A%B/dBtA/dBtB/dBrA/dBrB/SBA/DBA/PBA/LA/LB
Alarm	Independent logic gate alarm, alarm threshold thickness measurement
Storage	
Channel Parameters	20 groups
Scan A	1000 groups
Thickness values	100,000 data, liner
Reference wave	4
Input / Output	
Probe connector	LEMO or BNC
Regional	
Clock	date and time
Language	English
Unit	mm/inch
Battery	
Battery	High-energy lithium batteries, excellent overcharge and over-discharge protection
Battery Monitoring	Coulomb energy measurement based on battery monitoring, the percentage / time display the remaining battery life
Working Hours	work continuously for more than 10 hours

Battery Adapter	
	Input : 100~240V/50~60Hz Output : 9VDC/4A
High ranking	
B-scan two-dimensional coding	Thickness / contour scanning; grayscale / color palette settings
Curve freeze	YES
Data Storage	U disk
Characteristic indicator	Sound path measurement wave front and amplitude measurement position indicator
CSC Surface Correction	According probe angle, diameter of the work piece thickness and curvature correction for the measured values
Screen Saver	Standby / Text / off
Equivalent curve	
DAC curve	Can record 30 calibration points; Automatic Gain; any order calibration; calibration / edit two modified methods; consider the material attenuation and surface compensation factor; five adjustable gain curve to assess compliance with JIS and API Standards
DGS curve	For large flat-bottomed, flat-bottomed hole via three reference types, consider a reference attenuation, attenuation and surface material compensation factors, defect assessment methods: equivalent size/ equivalent gain / percentage
Standard	
	Main engine 1 Instructions 1 Straight / Box 1 angle probe 2 Coupling paste 1 Probe line 1 Charger 1 Battery 1
Optional	
Printer	TP serial printer, you can print directly screenshots / waveform / thickness of the three data report
Communication	USB