

EQUIPO SIUI CTS-9009 CONVENCIONAL



FUNCTION	UNIT	SPECIFICATIONS
Attenuator Error	dB	Every 12 dB±1 dB
Vertical Linearity Error	%	≤3
Dynamic Range	dB	≥30
Horizontal Linearity Error	%	≤0.5
Operating Frequency Range	MHz	0.5~15, with 3 steps of 1~4 / 0.5~8 / 2~15 selectable
PRF	Hz	10 steps (20~500 Hz adjustable but subject to detection range, material velocity, pulse shift, probe delay, etc)
Thin Plate Resolution	mm	≤3 (with a 5C10N probe)
Detection Range	mm	0~13000 (longitudinal wave in steel)
Pulse Shift	mm	0~1000 (longitudinal wave in steel)
Probe Zero	μs	0~200
Material Velocity	m/s	400~15000
Damping		Low/High
Reject	%	0~80
Rectify		Positive, Negative, Full, Filter, RF
Gain Adjustment	dB	0~110, with steps of 0.5/2/6/12
Ethernet Port		Real-time communication with a PC (Host) and remote control
Probe Frequency Testing		Calculate probe echo frequency with FFT.
AWS D1.1/D1.5		Calculate steel structure and bridge welds level based on American Welding Society (AWS) D1.1/D1.5.
API SUE		A quantitative method for calculating flaw depth based on American Petroleum Institute (API) recommended practice 5UE.
Curved Surface Correction		For depth and horizontal distance correction when testing circular tubes with an angle probe. Correction mode: inner arc/ outer arc.
Crack Height Measurement		Measure crack height by edge peak echo method with an angle probe.
Thickness Measurement		To achieve thickness measurement function
B scan		Acquire B-scan images by amplitude B-scan method
Gate Magnifier		Magnifier the echo within the gate to the whole echo area
DAC curve		For making, setting and applying DAC curves
AVG curve		For making, setting and applying AVG curves
Screenshot		Save the system screen as an image and output to a USB disk
Cineloop		Up to 7-min echo record function
USB port		Save the system internal data sets to a USB disk via the USB port
Gate		Gate mode: off/ Positive/ Negative/ Positive with alarm/ Negative with alarm
Storage		500 data sets, including system setup, detection state, echo figures, etc.
Auto Gain		Enabling the echo amplitude within the gate auto adjusted to a designated amplitude Amplitude setup: 40%/ 50%/ 60%/ 70%/ 80%/ 90%/ 100%
Peak Memory		Display waveform envelope
Peak Echo		Record waveforms including the highest echo
Freeze		Freeze screen waveforms
Auto Calibration		For calibrating material velocity and probe delay. Calibration mode: velocity and Zero/ Velocity/ Zero
Angle Measurement		Measure probe angle
Display Screen		5.7" high brightness TFT LCD, 320x240 pixels
Measure Unit		Inch/ mm
Language		Up to kinds of language for selection, including Chinese, English, Japanese, Spanish, Russian, etc.
Operating Time	h	≥7
Operating Voltage	V	9~12DC (extremal power supply); 6.0~8.4 (battery)
Operating Temperature	°C	-10~40
Weight	Kg	Approx. 1.15 (including battery)
Dimension	mm	152 x 240 x 52 (W x H x L)