

EQUIPO SIUI CTS-602

PHASED ARRAY



FUNCTION	CONVENTIONAL	PHASED ARRAY
System Bandwidth (-6dB)	0.5~15MHz	1~10MHz
A/D Sampling Frequency	Maximum 240MHz	120MHz
Probe Connector	Two BNC or Lemo Connectors	One, for supporting 16/32/64/128 elements probes, featured with auto-recognition function for probes.
Active Aperture		2-32, the upper limit depends on the probe element number
Pulse Generator	Type: Negative Spike Pulse Voltage: Approx. 370V Repeat Frequency: 20~500Hz Power: Low / High	Type: Bipolar Square Wave Pulse Transmit Voltage: 20V~150V, step: 10V Pulse Width: 40~500ns, step: 20ns Repeat Frequency: 100Hz~8KHz Transmit Delay: 0 μ s~20 μ s, resolution: 5ns
Receiver	Gain: 0~110dB, step: 0.5/1/2/6/12 Frequency: band (-6dB): 1~4MHz/0.5~15MHz Damping: Low / High Rectify: Positive, Negative, Full, Filter, RF	Gain: 0~80dB, Frequency: band (-6dB): 1~10MHz Delay: 0 μ s~20 μ s, resolution: 3.125ns
Focus		Transmit: Single focus Receive: 160MHz hardware real-time dynamic focus Maximum range: 1008 focus points per scan-line
Filter	Auto adjustment based on operating frequency band	Auto adjustment based on probe frequency
Scan Type		Linear/ Sector/ C/ D Scan
Scan Line		Linear Scan: Max 256 lines sector Scan: Max 128 lines
Scan Angle Range		Linear Scan: -45°~+45° sector Scan: -80°~+80°
Scan Range	0~6000 mm (Steel longitudinal wave), continuous and adjustable, minimum display range: 10mm	0~1000 mm (Steel longitudinal wave)
Material Velocity	1000~10000 m/s	1000~10000 m/s
Display Delay	-10~10000 mm (Steel longitudinal wave)	0~1000 mm (Steel longitudinal wave)
Probe Zero	0~200 μ s	
Reject	0~80 linear reject	
Curve Function	DAC	
Auxiliary Function	A-scan echo freeze, auto calibration, angle measurement, peak value memory, parameter output, AWS D1.1/D1.5, USB disk storage	
Alarm Signal	Sound and light alarm (built-in buzzer and panel LED)	
Test Point Selection	Peak Value/ Front/ J Front	Peak Value
language	Chinese/ English	
Unit	Mm/ inch	
Measurement	Two Gates: it can measure echo amplitude, sound path, horizontal distance, vertical distance and distance between two gates	Two Gates: it can measure echo amplitude, sound path, horizontal distance, vertical distance and distance between two gates. Two measurement cursors: it can measure horizontal & vertical position and distance between cursors on the image.
Horizontal Linearity	$\leq 0.5\%$	
Vertical Linearity	$\leq 0.3\%$	
Attenuator Error	12dB \pm 1dB	
Dynamic Range	≥ 30 dB	
Far-field Resolution	≥ 26 dB	
Electric Noise Level	In initialized state, when the detection range and gain is set to be maximum, it is $\leq 20\%$ (Frequency band 1~4MHz)	
EN Norm	EN-12668-1 compliant	