

EQUIPO SIUI SUPOR

TOFD + PHASED ARRAY



	TOFD / conventional	Phased Array
System		
System Bandwidth	0.5 MHz ~25MHz	1 MHz ~10MHz
A/D Sampling Frequency	200MHz	50MHz
Probe Connector	Four Lemo 00 Connectors	One connector, supporting up to 128-element probe, features auto-recognition function.
Pulse Transmitter		
Pulser	Negative Spike Pulse, Negative Square Wave	Bi-Polar Square Wave
PRF	100Hz ~2000MHz	100Hz ~8000MHz
Voltage	Max. 500V with 50V step	0V~110V with 2V step
Energy		4 levels
width	10ns~600ns	40~500ns with step
Damping	4 levels	
Pulser Delay		0μs~20 μs, with 5ns resolution
Pulser Focusing		Single Point Focusing
Receiver		
Gain	0dB~110dB, with 0.5/1/2/6/12 step	0dB~80dB, with 0.5/1/2/6/12 step
Bandwidth	0.5 MHz ~25MHz	1 MHz ~10MHz
Rectification	Positive, Negative, FW and RF	FW
Receiver Delay		0μs~20 μs, with 2.5ns resolution
Receiver Focusing		200 MHz hardware dynamic focusing, maximum range: 1008 focus points per scan-line.
Filter	16 levels	Auto adjustment based on transmit pulse width
Reject	0%~80%	
Scan		
Scan Type	A scan/TOFD	A/B/C/D scan
Image Wizard	Available	Available
Trigger	Time-based/Encoder	Time-based/Encoder
Scan Length	Max. 20 meters	Max. 5 meters
Number of scan line		Max. 128 lines
Scan angle range		-89°~+89°
Number of channel	2	32
Calibration		
Range	5mm ~ 15000 mm	0mm ~ 1000 mm
Material Velocity	1000 m/s~ 10000 m/s	1000 m/s~ 10000 m/s
Display Delay	-10mm~10000 mm	0mm ~ 1000 mm
Probe Zero	0 μs ~200μs	
Auto Calibration	Velocity, probe zero	
Manual Calibration	Velocity, probe zero	Velocity, Delay, Sensitivity, TCG