M2M PANTHERTM

Industrial phased-array instrumentation with TFM

CONCEPTION OF THE OFFICE OFFIC

Coming soon



M2M PANTHER

C Eddyfi Technolog

SPECIFICATIONS

GENERAL	
L x W x H: 300mm x 220mm x 155mm	Weight: 6kg
Operating temperature range: from -10°C to 50°C 14°F to 120°F	IP54
Storage temperature range: -10°C to 60°C 14°F to 140°F	Power supply: 240V50Hz – 110V/60Hz

PHASED-ARRAY	
Linear scanning, sectorial scanning, parallel shooting, ultrafast mixed modes	Linear, Matrix, DLA and DMA, Annular and Daisy probes
Maximum active aperture: 2048 channels (with 16 Panther units)	Unlimited probe number No group limitation Up to 13100 focal laws
Delay-law computation for standard and parametric components (plates, pipes, TKY junctions, nozzle, elbows, turbine blades) as well as 2D and 3D CAD	Focusing mode: true depth, sound path, projection

REAL-TIME TFM, FMC, PWI	
Reconstruction channels: up to 128	Max number of pixels for the reconstructed image: more than 1 Million
Max refresh rate: up to 500fps (depends on the pixel numbers)	Multiple Sound paths: direct (L or S), indirect and converted modes, Modes superposition

PULSERS				RECEIVERS			
Bipolar square pulse, width: 30ns to 2000ns		128 phased-array channels*:		Input impedance: 50 Ω		Gain: up to 120dB (0.1dB step)	
128 phased-array channels*: Voltage amplitude: max 180V with 1V step			Frequency range: 0.4 to 20MHz		Cross-talk between two channels < 50 dB		
	Max. PRF: up to 40kH	z			Max. input signal: 1.8Vpp		Ultralow noise amplifier
DIGITIZER				ACQUISITION			
Digitizing and real-time summa	ation on 128 channels	Resolution: 14bit Dynamic: 16bit		A-Scan/Peak data recording		800% amplitud	le range
IIR filters		Max. sampling frequency: 125 MHz		High speed EMC recording (320	MR/s)	Inspection data	a filo sizo: hard drive limitation
Rectified, RF, envelope Digitizing depth up to 16k points		Digitizing depth up to 16k points		inspection data file size. had			
May delay 16 mc May A coop range 6Ek pointe		May Ascan range 65k points		Acquisition trigger on time, event, encoder Data transfer through USB3		hrough USB3	

WIZARDS	
CAD overlay and 3D view	Amplitude balancing
Real-time phased array calculator	Probe design Weld geometry design
Wedge calibration (angle, height) Amplitude calibration (TCG, DAC)	Part geometry with parametric shapes (plates, cylinders, Butt Welds, T K & Y welds, elbow, blade, nozzles,), 2D and 3D CAD

ANALYSIS	
Powerful CIVA Analysis ${ m I}$ and Enlight ${ m ^{TM}}$ software with analysis and reporting tools	Amplitude range: up to 800%
A-Scan, B-Scan, C-Scan, D-Scan, Echodynamic, Top - Side - Front views	CAD part geometry: plate, cylinder, T or Y section, nozzle
3D view, Analysis gates	CAD butt weld geometry
post-processing of TFM reconstruction of recorded FMC/PWI data acquisition processing in CAD geometry	Customizable inspection report

I-0	
1 IPEX connector for phased-array (can be upgraded to 2 with splitter)	1 fiber optic port
4 Lemo 00 3 encoder inputs	1 external trigger
1 USB 3.0 high speed link	1 ultra high speed summation port (for summation between modules)

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