



pris



Simplicity | Capability | Reliability



As Simple as you want

- 30 Second Configuration
- Single Hand Operation
- Interactive Help & 3D views
- Configuration & Calibration Wizards
- "Parameter Genius" for additional guidance
- Minimize training: Common User Interface











As Capable as you need

- UT, TOFD & PA Inspection Modes
- Unique cursors for precision measurement
- Recordability: screen shots, full data recording, fully traceable.
- UT Studio Fast and dynamic reporting
- Customized imaging layout.... over 25 to choose from.

STEP UP from conventional UT to phased array.

Formats available are: Prisma UT Prisma UT + TOFD Prisma UT + PA Prisma UT + PA + TOFD

Upgradeable anytime, anywhere!

prisma series

.....true performance to meet all your inspection requirements.



The **prisma** is the latest product from Sonatest's technician focussed product development and research. An advanced ultrasonic flaw detector offering the technician an extremely comprehensive tool for test and measurement, which can be upgraded to include TOFD and Phased Array capability. An upgrade can be carried out wherever you are, there is no need to return the instrument, eliminating any downtime.

Simple controls, superior performance, advanced features and a rugged enclosure deliver simplicity, capability and reliability to the technician's finger tips.

With the best display size and resolution in it's category, the **prisma** provides the end user with an intuitive and workflow driven interface, excellent imaging capability uses the Full screen mode allowing 100% of the display to be used for Scan Imaging. Numerous palettes are accessible for all scan types "see things how you want to", in amplitude or depth C-Scans, customise your palettes. Take full advantage of the advanced display modes which include smoothing, contouring and averaging all available to enhance your signal quality.



The **prisma** is constructed to exacting standards using a rigid, shock mounted, internal chassis surrounded by an impact absorbing enclosure and designed to meet IP66; which ensures the unit is fully sealed against fine dust and jets of water.

Typical applications are broad but include Weld Inspection, Corrosion Mapping, Aerospace and Composite Testing.



Prisma UT

The Prisma UT model is fully loaded, carrying all the basic and advanced features of the Sonatest flaw detector range. Prisma UT offers damping control to either optimize near surface resolution transmission. The ability or energy to capture screens is standard combined with automatic reporting capability which enables reports to be formatted with relative bespoke customer information such as logos etc. The most popular flaw sizing techniques such as DAC, AVG/DGS, TGC and AWS are all on-board.

Thanks to the on-board software enhancing the B and C-Scan imaging capabilities, the Prisma UT enables field technicians to conduct dedicated corrosion and composite inspections, together with comprehensive on-site thickness profiling.

Prisma TOFD

Ultrasonic Time of Flight Diffraction (TOFD) has gained in popularity over the last decade and via the Prisma TOFD, Sonatest brings to the market a truly portable and powerful TOFD unit. Knowing that TOFD inspection can be carried out on wall as 6mm (1/4"), thickness as thin the Prisma offers the best digitizing frequency of its category going up to 200MHz. Simply put this means frequency transducers can be used, that high ensuring the most accurate flaw height sizing possible.

TOFD is a versatile technique; with two UT channels the Prisma permits the inspection of thick component in a single pass. This is enhanced by the high voltage square wave pulsers delivering up to 450V.

Prisma TOFD offers the complete hardware configuration to deliver the best performance. but it would be incomplete without the on-board software features such hyperbolic as cursors lateral wave straightening and lateral wave removal.

Prisma PA

Ultrasonic Phased Array technology has become the established method for advanced NDT testing applications. Phased Array Techniques allow the user to cover a wider volume of inspection; such as being able to cover the complete span of a weld without the need to move or reposition the transducer. This is possible due to phased array enabling beams to be electronically steered. This technique results in comprehensive imaging of the results showing а quasi cross section of the inspected part.

With the Prisma PA you can switch easily and between the UT and PA quickly operating modes with a simple press of a button, no data or time is lost. The Inspection Plan shows the operator in 2D and 3D where probes are positioned on the test part, simplifying the inspection set up and providing an inspection reference for reporting. All adjustments to focal laws are instantaneous. Multiple sectorial scans, true top, side and end view extractions, together with C-Scans, all supported. are

UT Studio

UT Studio is PC based software, which а accompanies the Prisma and enables powerful post analysis capability. Not only does it offer excellent report generation features but new views can be generated and comparative analysis can be conducted by opening multiple inspection data files, re-gating and producing fully illustrated reports. Working in a familiar



"drag and drop" environment the end user can create multiple views such a Top, End and B-Scan visual files by simply dragging Prisma data files onto templates for presentations. Full recordability of data when using the Prisma is standard, which means that screenshots and all data can be retained and analyzed at a later date using UT Studio. In using the full data gathering capability traceability can be achieved; hence repeatability of the inspection and results can be confirmed.

Powerful measurement cursors and extractors can be added to identify indications, size and annotate defects. Reports are easily generated and can be exported into PDF format for review and circulation.

Specification (Specification are subject to change)



	Conventional UT	Phased Array
Pulsers		
Configuration	2 UT Channels	16:16 or 16:64
Test Mode	Pulse-Echo, Transmit/Receive and TOFD	Pulse-Echo, Transmit/Receive
Transducer Socket	LEMO 1 or BNC	I-PEX
Pulse Voltage	-100 V to -450 V (in steps of 10 V)	-25 V to - 75 V (in steps of 5 V)
PRF	1 Hz to 1500 Hz	1 Hz to 5000 Hz
Pulse Shape	Negative Square Wave (with ActiveEdge)	Negative Square Wave (with ActiveEdge)
Pulse Width	Adjustable: Spike to 2000ns (2.5 ns resolution)	Adjustable: Spike to 1000ns (2.5 ns resolution)
Edge Time	15 ns in 50 Ω load @200 V	12 ns in 50 Ω load @50 V
Output Impedance	5 Ω	<10 Ω
Trigger Synchronisation	On encoder resolution or internal PRF (both encoded or not)	On encoder resolution or internal PRF (not encoded)
Focus Delay Range	n/a	O to 10 µs (2.5 ns resolution)
Damping Resistor	Selectable: 50 Ω or 400 Ω	n/a
Receivers		
Gain Range	100 dB (0.1 dB steps) Analogue Gain	0 to 76 dB (0.1 dB steps), Analogue Gain
Max Input Voltage	25 Vp-p	200 mVp-p
Input Impedance	$1 k\Omega$ (pitch and catch)	200 Ω
Bandwidth	200 kHz to 22 MHz (-3 dB)	200 kHz to 14 MHz
Analog Filters	4 (automatic or manual)	3 (automatic)
Digital Filters	10 (automatic or manual)	10 (automatic or manual)
Rectification	Full wave, positive, negative, none (RF)	Full wave, positive, negative, none (RF)
Single Enhancement	Digital filters, Smoothing, Contouring, Rejection, Averaging	Digital filters, Smoothing, Contouring, Rejection
Focus Delay Range	n/a	0 to 10µs (16ns resolution interpolated to 3.8ns)
Data Acquisition		
Data Acquisition Architecture	2 channels, true 200 MHz sampling rate	16 Channels, Full digital Delay & Sum
Data Acquisition Architecture Digitizer Resolution	2 channels, true 200 MHz sampling rate 12 bit ADC	16 Channels, Full digital Delay & Sum 12 bit ADC
Data Acquisition Architecture Digitizer Resolution Amplitude Measurement	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH
Data Acquisition Architecture Digitizer Resolution Amplitude Measurement Data Processing	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample
Data Acquisition Architecture Digitizer Resolution Amplitude Measurement Data Processing Data Recording	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options)	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options)
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile Size	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing Frequency	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 65 MHz
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal Laws	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz n/a	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 65 MHz 128
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal LawsFocussing Type	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz n/a n/a	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 65 MHz 128 Constant Depth, Constant Path, Constant Offset
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal LawsFocussing TypeMax A-Scan Length	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz n/a n/a 8192 samples	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 65 MHz 128 Constant Depth, Constant Path, Constant Offset 4096 samples
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal LawsFocussing TypeMax A-Scan LengthSub-Sampling	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz n/a n/a 8192 samples 1:1 to 1:128	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 65 MHz 128 Constant Depth, Constant Path, Constant Offset 4096 samples 1:1 to 1:128
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal LawsFocussing TypeMax A-Scan LengthSub-SamplingReference	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz n/a n/a n/a 8192 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 65 MHz 128 Constant Depth, Constant Path, Constant Offset 4096 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal LawsFocussing TypeMax A-Scan LengthSub-SamplingReferenceTrigger Sync.	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz n/a n/a N/a 8192 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported Encoder or Internal	16 Channels, Full digital Delay & Sum12 bit ADC[0% to 100%] or [0% to 150%] FSH16 bits/sampleFull raw data recording (plus sub-sampling options)up to 3 GB65 MHz128Constant Depth, Constant Path, Constant Offset4096 samples1:1 to 1:128Initial Pulse or Gate/IFT supportedEncoder or Internal
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal LawsFocussing TypeMax A-Scan LengthSub-SamplingReferenceTrigger Sync.Scan & Views	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz n/a n/a n/a 8192 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported Encoder or Internal	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 65 MHz 128 Constant Depth, Constant Path, Constant Offset 4096 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported Encoder or Internal
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal LawsFocussing TypeMax A-Scan LengthSub-SamplingReferenceTrigger Sync.Scan & ViewsSupported Scans	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz n/a n/a 8192 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported Encoder or Internal A-Scan & TOFD	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 65 MHz 128 Constant Depth, Constant Path, Constant Offset 4096 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported Encoder or Internal
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal LawsFocussing TypeMax A-Scan LengthSub-SamplingReferenceTrigger Sync.Scan & ViewsSupported ScansNumber of Scans	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz n/a n/a n/a 8192 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported Encoder or Internal A-Scan & TOFD up to 2	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 65 MHz 128 Constant Depth, Constant Path, Constant Offset 4096 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported Encoder or Internal S-Scan or L-Scan 1 (with up to 3 extracted A-Scans)
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal LawsFocussing TypeMax A-Scan LengthSub-SamplingReferenceTrigger Sync.Scan & ViewsSupported ScansNumber of ScansViewsScale Marco	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz n/a 50 MHz, 100 MHz, 200 MHz n/a 8192 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported Encoder or Internal A-Scan & TOFD up to 2 A, B, C-Scan, Merged & TOFD	16 Channels, Full digital Delay & Sum12 bit ADC[0% to 100%] or [0% to 150%] FSH16 bits/sampleFull raw data recording (plus sub-sampling options)up to 3 GB65 MHz128Constant Depth, Constant Path, Constant Offset4096 samples1:1 to 1:128Initial Pulse or Gate/IFT supportedEncoder or InternalS-Scan or L-Scan1 (with up to 3 extracted A-Scans)A, B, C, L, S-Scan, Merged plus true TOP & END
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal LawsFocussing TypeMax A-Scan LengthSub-SamplingReferenceTrigger Sync.Scan & ViewsSupported ScansNumber of ScansViewsColour Maps	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz 50 MHz, 100 MHz, 200 MHz 10 MHz, 200 MHz 11 to 1:128 11 to 1:128 11 to 1:128 11 to 1:128 11 to 1:128 Initial Pulse or Gate/IFT supported Encoder or Internal A-Scan & TOFD up to 2 A, B, C-Scan, Merged & TOFD up to 10	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 65 MHz 128 Constant Depth, Constant Path, Constant Offset 4096 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported Encoder or Internal S-Scan or L-Scan 1 (with up to 3 extracted A-Scans) A, B, C, L, S-Scan, Merged plus true TOP & END up to 10
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal LawsFocussing TypeMax A-Scan LengthSub-SamplingReferenceTrigger Sync.Scan & ViewsSupported ScansNumber of ScansViewsColour MapsNumber of LayoutsCurrent	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz 50 MHz, 100 MHz, 200 MHz n/a n/a n/a 8192 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported Encoder or Internal A-Scan & TOFD up to 2 A, B, C-Scan, Merged & TOFD up to 10 18	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 65 MHz 128 Constant Depth, Constant Path, Constant Offset 128 Constant Depth, Constant Path, Constant Offset 4096 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported Encoder or Internal S-Scan or L-Scan 1 (with up to 3 extracted A-Scans) A, B, C, L, S-Scan, Merged plus true TOP & END up to 10 35
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal LawsFocussing TypeMax A-Scan LengthSub-SamplingReferenceTrigger Sync.Scan & ViewsSupported ScansNumber of ScansViewsColour MapsNumber of LayoutsCursorsCursors	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz 50 MHz, 100 MHz, 200 MHz 10 MHz 10 MHz, 200 MHz 10 MHz 10 MHz 10 MHz 11 to 1:128 11 to 1:128 12 MHZ 12 MHZ 13 MHZ 14 MHZ 14 MHZ 15 MHZ 16 DHZ 17 MHZ 16 DHZ 17 MHZ 16 DHZ 17 MHZ 17 MHZ 17 MHZ 18 MHZ 17 MHZ 18 MHZ 18 MHZ 18 MHZ 18 MHZ 18 MHZ 18 MHZ 19 MHZ 19 MHZ 19 MHZ 19 MHZ 19 MHZ 10 MHZ	16 Channels, Full digital Delay & Sum 12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 65 MHz 128 Constant Depth, Constant Path, Constant Offset 4096 samples 1:1 to 1:128 Initial Pulse or Gate/IFT supported Encoder or Internal S-Scan or L-Scan 1 (with up to 3 extracted A-Scans) A, B, C, L, S-Scan, Merged plus true TOP & END up to 10 35
Data AcquisitionArchitectureDigitizer ResolutionAmplitudeMeasurementData ProcessingData RecordingFile SizeDigitizing FrequencyFocal LawsFocussing TypeMax A-Scan LengthSub-SamplingReferenceTrigger Sync.Scan & ViewsSupported ScansNumber of ScansViewsColour MapsNumber of LayoutsCursorsCursor TypesMeasurements	2 channels, true 200 MHz sampling rate 12 bit ADC [0% to 100%] or [0% to 150%] FSH [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options) up to 3 GB 50 MHz, 100 MHz, 200 MHz 100 MHz, 200 MHz 100 MHz, 200 MHz 101 NHz 100 MHz, 200 MHz 101 NHZ 101 NHZ 101 NHZ 11 to 1:128 11 to 1:128 11 to 1:128 11 to 1:128 11 to 1:128 11 to 1:128 12 to 1:128 13 to 2 A, B, C-Scan, Merged & TOFD up to 2 A, B, C-Scan, Merged & TOFD 18 Cartesian, Hyperbolic (TOFD) Path Length, Depth, Surface Distance, DAC, AWS, DGS	16 Channels, Full digital Delay & Sum12 bit ADC[0% to 100%] or [0% to 150%] FSH16 bits/sampleFull raw data recording (plus sub-sampling options)up to 3 GB65 MHz128Constant Depth, Constant Path, Constant Offset4096 samples1:1 to 1:128Initial Pulse or Gate/IFT supportedEncoder or InternalS-Scan or L-Scan1 (with up to 3 extracted A-Scans)A, B, C, L, S-Scan, Merged plus true TOP & ENDup to 1035Cartesian, Extraction Box, AngularPath Length, Depth, Surface Distance, DAC, AWS

Specification

prisma

DAC & TCG DAC points 16 DAC 1 with 3 "sub DACs" I with 3 "sub DACs" 1 with 3 "sub DACs" per facal Law TCG points 60 dB Max Gain Range 60 dB Max Gain Stope 60 dB/us Stope 60 dB/us A-Scan Gates 4 gates per A-Scan (3 extracted A-Scans per S/L-Scan) Gate Trigger Flank/Peak Flank/Peak Flank/Peak S/L-Scan n/a Iteration Box 2 (sync on all gates & DACs) Assan gates 2 (sync on all gates & DACs) Measuments Peak & Flank (FSH dB, Depth, Beam Path (A-Scan) Interface & Reporting Interface & Reporting Interface & Reporting Versite (and the path) Integrated Help Active help & parameter description / Optimization Remote Connection Onboard VIN Server and FTP Server (connection through Ethernet protocol) Wizards Configuration, Velocity and Zerv, Vedge Delay, Sentitivity, TCG, DAC, DCS, Element Activation, Encoder Ianguage (dynamic) Selectable English, German, French, Spanish, Russian, Chinese, Hungarian, Italian, Portuguese Report G		Conventional UT	Phased Array	
DAC points 16 1 DAC 1	DAC & TCG			
DAC 1 with 3 'sub DACs' 1 with 3 'sub DACs' per focal Law TCG points 16 16 Gain Range 60 dB 40 dB Max Gain Slope 50 dB/µs 50 dB/µs Gates	DAC points	16	16	
TGG points 16 16 Gain Range 60 dB 40 dB Max Gain Slope 60 dB/µs 50 dB/µs Cotes	DAC	1 with 3 "sub DACs"	1 with 3 "sub DACs" per focal Law	
Gain Stope60 dB40 dBMax Gain Stope60 dB/µs50 dB/µsGates4 gates per A-Scan4 gates per A-Scan2 gates per A-ScanGate TriggerFlank/PeakFlank/PeakFlank/PeakS/L-Scan01 Extraction BoxAlarm LED2 (sync on all gates & DACs)2 (sync on all gates & DACs)Measurements (A-Scan)Peak & Flank (FSH, dB, Depth, Beam Path Length, Surface Distance), Echo-to-Echo, Floating Gates (reference from IFT)Peak & Flank (FSH, dB, Depth, Beam Path Length, Surface Distance), Echo-to-Echo, Rebating Gates (reference from IFT)Interface & ReportingEmoting Gates (reference from IFT)Peak & Flank (FSH, dB, Depth, Beam Path Length, Surface Distance), Echo-to-Echo, Rebating Gates (reference from IFT)Interface & ReportingEmoting Gates (reference from IFT)Peak & Flank (FSH, dB, Depth, Beam Path Length, Surface Distance), Echo-to-Echo, Rebating Gates (reference from IFT)Interface & ReportingConfiguration, Velocity and Zero, Wedge Delay, Sensitivity, 	TCG points	16	16	
Max Gain Slope 50 dB/us Gates 4 gates per A-Scan 4 gates per A-Scan A-Scan Gates 4 gates per A-Scan 4 gates aper A-Scan Gate Trigger Flank/Peak Flank/Peak STI-Scan n/a I Extraction Rox Alarm LDD 2 (sync on all gates & DACs) 2 (sync on all gates & DACs) Measurements Peak & Flank (FSH, dB, Depth, Beam Path Length, Surface Distance), Echo-to-Echo, Floating Gates (reference from IFT) Interface & Reporting Interface & Reporting Interface V Conneution Onboard VIK Server and FTP Server (connection through Ethernet protocol) Wizards Selectable. English, German, French, Spanish, Russian, Chinese, Hungarian, Italian, Portugaes Report Generation PDF Report (includes customer logo, scan acoustic parameters, measurements, etc.), PNF screen capture. PDF Reader A llows viewing any uploaded PDF file, scan plan, procedures, old reports etc. Inputs & Outputs 4 Output lines (SV TTL, 20 mA) for alarm or other external control Digital Inputs Output lines (SV TTL, 20 mA) for alarm or other external control Digital Size Selectable. Scies Color Digital Size Selectable. Scies Color Display Size Allow	Gain Range	60 dB	40 dB	
Gates 4 gates per A-Scan 4 gates per A-Scan (3 extracted A-Scans per S/L-Scan) Gate Trigger Flank/Peak Flank/Peak S/L-Scan n/a 1 Extraction Box Alarm LED 2 (sync on all gates & DACs) 2 (sync on all gates & DACs) Measurements Peak & Flank (FSH, dB, Depth, Beam Path Length, Surface Distance), Echo-to-Echo, Floating Gates (reference from IFT) Peak & Flank (FSH, dB, Depth, Beam Path Length, Surface Distance), Echo-to-Echo, Floating Gates (reference from IFT) Integrated Help Active help & parameter description / Optimization Remote Connection Onboard VNC Server and FTP Server (connection through Ethernet protocol) Wizards Configuration, Velocity and Zero, Wedge Delay, Sensitivity, TCG, DAC, DCS, Element Activation, Encoder Languages (dynamic) Selectable: English, German, French, Spanish, Russian, Chinese, Hungarian, Italian, Portuguese PDF Reader Allows viewing any uploaded PDF file, scan plan, procedures, old reports etc. Inputs 2 input lines (SV TTL) Digital loutputs 4 output lines (SV TTL, 20 mA) for alarm or other external control Power Output SV350 mA, current limited Encoder 1 or 2 axis encoding (dudrature input) Digital loutputs 4 Output lines (SV TTL, 20 mA)	Max Gain Slope	60 dB/µs 50 dB/µs		
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Onsite Practicality

Ergonomic Design

Technology Integration

prisma UT Standard Kit

Dual UT Channels with:

- A-Scan Recording
- 2 Axis Encoding
- Interface Triggering (IFT)

A,B and C Scan Displays USB Stick (8GB) Couplant User Manual/ Quick User Guide 2 Point Neck Harness Lithium-Ion Battery Pack Power Cord & Power Supply adaptor Screen Protector (Anti-Glare) Transport Case (Airplane Carry on Size)

prisma UT/PA 16/16 Standard Kit

Dual UT channel kit above plus 16:16, manual PA

Options

UT option TOFD *encoding for UT is standard *IFT for UT is standard

PA option

16:64 2 axis encoding & recording for PA IFT for PA Encoder Y-Splitter

Software Options

CSV Export Software function to export view data into a CSV format.





Sonatest (Head Office) Dickens Road, Old Wolverton Milton Keynes, MK12 5QQ t: +44 (0)1908 316345 e: sales@sonatest.com

Sonatest (North America)

12775 Cogburn, San Antonio Texas, 78249 t: +1 (210) 697–0335 e: sales@sonatestinc.com



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