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Affordable TOFD and PA capability ...







...and Award winning product design at your fingertips.

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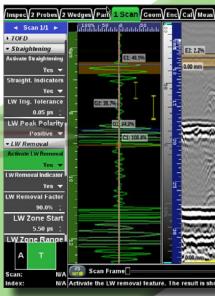
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As Simple as you want

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





TOFD

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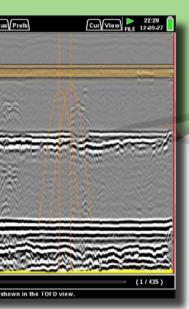
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As Capable as you need

- 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!

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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 or energy transmission. The ability 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.

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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 thickness as thin as 6mm (1/4"), the Prisma offers the best digitizing frequency of its category going up to 200MHz. Simply put this means that high frequency transducers can be used, 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 as hyperbolic 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 a quasi cross section of the inspected part.

With the Prisma PA you can switch easily and quickly between the UT and PA operating modes with a simple press of a button, no data or time is lost.

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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, are all supported.

UT Studio

UT Studio is a PC based software, which 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.

Free downloads of UT Studio Viewer are available for the technician's client to use.

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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	On encoder resolution or internal PRF	On encoder resolution or internal PRF
Synchronisation	(both encoded or not)	(not encoded)
Focus Delay Range	n/a	0 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 kΩ (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 (16 ns resolution interpolated to 3.8 ns)
Data Acquisition		106
-		
Architecture	2 channels, true 200 MHz sampling rate	16 Channels, Full digital Delay & Sum
Digitizer Resolution	2 channels, true 200 MHz sampling rate 12 bit ADC	16 Channels, Full digital Delay & Sum 12 bit ADC
Digitizer Resolution Amplitude	12 bit ADC	12 bit ADC
Digitizer Resolution Amplitude Measurement	12 bit ADC [0% to 100%] or [0% to 150%] FSH	12 bit ADC [0% to 100%] or [0% to 150%] FSH
Digitizer Resolution Amplitude Measurement Data Processing	12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample	12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample
Digitizer Resolution Amplitude Measurement Data Processing Data Recording	12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options)	12 bit ADC [0% to 100%] or [0% to 150%] FSH 16 bits/sample Full raw data recording (plus sub-sampling options)
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size	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	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
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency	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	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
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency Focal Laws	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	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
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency Focal Laws Focussing Type	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	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
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency Focal Laws Focussing Type Max A-Scan Length	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	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
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency Focal Laws Focussing Type Max A-Scan Length Sub-Sampling	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	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
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency Focal Laws Focussing Type Max A-Scan Length Sub-Sampling Reference	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	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
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency Focal Laws Focussing Type Max A-Scan Length Sub-Sampling Reference Trigger Sync.	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	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
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency Focal Laws Focussing Type Max A-Scan Length Sub-Sampling Reference Trigger Sync. Scan & Views	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 up to 2	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)
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency Focal Laws Focussing Type Max A-Scan Length Sub-Sampling Reference Trigger Sync. Scan & Views Supported Scans Number of Scans Views	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 up to 2 A, B, C-Scan, Merged & TOFD	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
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency Focal Laws Focussing Type Max A-Scan Length Sub-Sampling Reference Trigger Sync. Scan & Views Supported Scans Number of Scans	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 up to 2 A, B, C-Scan, Merged & TOFD up to 10	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)
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency Focal Laws Focussing Type Max A-Scan Length Sub-Sampling Reference Trigger Sync. Scan & Views Supported Scans Number of Scans Views Colour Maps Number of Layouts	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 up to 2 A, B, C-Scan, Merged & TOFD	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
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency Focal Laws Focussing Type Max A-Scan Length Sub-Sampling Reference Trigger Sync. Scan & Views Supported Scans Number of Scans Views Colour Maps	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 up to 2 A, B, C-Scan, Merged & TOFD up to 10 18	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
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency Focal Laws Focussing Type Max A-Scan Length Sub-Sampling Reference Trigger Sync. Scan & Views Supported Scans Number of Scans Views Colour Maps Number of Layouts	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 up to 2 A, B, C-Scan, Merged & TOFD up to 10 18 Cartesian, Hyperbolic (TOFD)	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 Cartesian, Extraction Box, Angular
Digitizer Resolution Amplitude Measurement Data Processing Data Recording File Size Digitizing Frequency Focal Laws Focussing Type Max A-Scan Length Sub-Sampling Reference Trigger Sync. Scan & Views Supported Scans Number of Scans Views Colour Maps Number of Layouts Cursors	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 up to 2 A, B, C-Scan, Merged & TOFD up to 10 18	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

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Specification

<u>'</u>	Pi i 3 / C (
	Conventional UT	Phased Array
DAC & TCG		
DAC points	16	16
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	60 dB/µs	50 dB/μs
Gates		
A-Scan 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 (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, Floating Gates (reference from IFT)
Interface & Reporting		
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, DGS, Element Activation, Encoder	
Languages (dynamic)	Selectable: English, German, French, Spanish, Russian, Chinese, Hungarian, Italian, Portuguese	
Report Generation	PDF Report (includes customer logo, scan acoustic parameters, measurements, etc.), PNG screen capture.	
PDF Reader	Allows viewing any uploaded PDF file, scan plan, procedures, old reports etc.	
Inputs & Outputs		
Encoder	1 or 2 axis encoding (quadrature input)	
Digital Inputs	2 input lines (5V TTL)	
Digital Outputs	4 Output lines (5V TTL, 20 mA) for alarm or other external control	
Power Output	5V, 350 mA, current limited	
Enclosure		
Dimensions (HxWxD)	205mm x 300mm x 90 mm	
Weight	3.5 kg (with battery)	
Display Size	8.4 inch (diagonal)	
Display Resolution	800 x 600	
Display Colours	260k (65535 colours for scan palettes)	
Display Type	TFT LCD, 450 Cd/m2, with 2% reflectivity	
USB ports	3 USB Master ports	
Ethernet	100 Mbps	
Battery & Power Supply		
Battery Type	Intelligent Li-ion	
Number of batteries	1	
Operation	On battery or on External power (DC Power Pack)	
Battery Replacement	Yes, no tools required	
Battery Recharge	Recharge in unit (with unit On or OFF) - External Battery Charger (std) (as per EN16392)	
Battery Life	Typical: 7 hours in UT mode, 6 hours in PA mode	
Environmental		
IP Rating	Designed to	o meet IP66
		o meet IP66 (14 °F to 113 °F)



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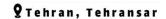
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Onsite Practicality

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 Packs (x2)

External battery charger

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.





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