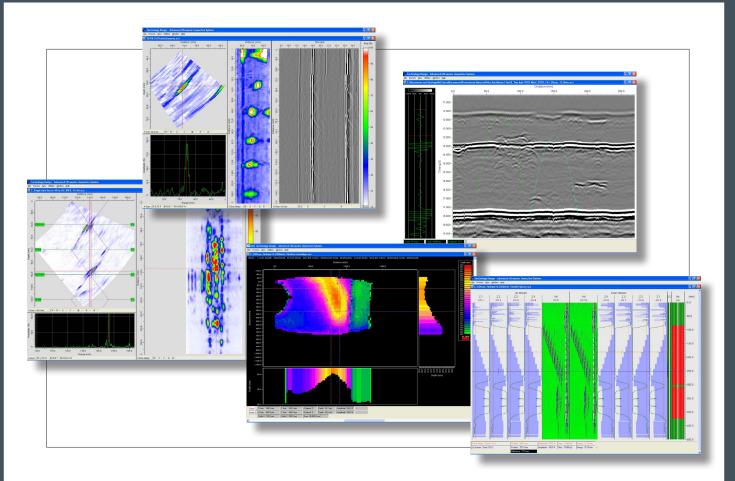


# Advanced Software · Multi-Function Ultrasonic Inspection Systems



## Features

- Intuitive user friendly menus
- Powerful, easy to use analysis tools
- Fully integrated TOFD, Pulse Echo and Phased Array
- Ideal for manual, semi & automated inspections
- One software suite for all instruments in the TD range
- Unrivalled performance.
- Real-time A, B, C, D & S-scan imaging
- Weld geometry overlays
- TD Super-View for complete user controlled imaging

## Techniques

- Phased Array
- ToFD
- Pulse Echo
- Corrosion Mapping

## **Applications**

- Pressure Vessels Welds
- Pipeline Welds
- Structural Welds
- Forgings & Castings
- Turbine Disks & Blades
- Aircraft Components
- Hydrogen Damage Surveys
- Corrosion Surveys

## **Software Options**

- Phased Array/Pulse Echo
- ToFD
- Strip-Scan
- Long Range (Creep Wave & Corrosion Mapping)
- TD Super-View<sup>®</sup>

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## **TD-Scan Software Specification & Features**

Easy to use Windows XP Pro® based software provides a fully integrated TOFD, Pulse Echo and Phased Array capability in our tough, feature rich portable ultrasonic acquisition units. Ideally suited to either semiautomated or automatic inspection, whether you are using the miniature TD Pocket-Scan, TD Handy-Scan, TD-Scan or our top-of-the-range TD Focus-Scan, our Advanced Ultrasonic Software provides unrivalled performance.

Intuitive user friendly menu's guide the user through each operation, with all parameters definable on a channel by channel basis. With our TD-Scan and TD Focus-Scan units the software can also be controlled by shortcut keys integrated into the front panel to provide mouse-free operation.

Our software provides real-time A, B, C, D & S-scan imaging with probe angle and geometry (skip) correction performed on-line and off-line. The user is provided instantly with a true representation of the material under test and with our enhanced analysis tools the process of defect interpretation and condition assessment is smooth and remarkably quick.

TD Super-View<sup>®</sup> was developed with the operator in mind: that means, full control of the data display online and offline. The operator has the flexibility of choice to divide the main display window into 4 display areas and further subdivide each display area into multiple sub-areas presenting A, B,C,D or S scans on the screen as desired. The operator has the choice of displaying the above data from individual channels or as a composite view of all active channels. Data from different scan modes can also be viewed simultaneously, for instance ToFD and Pulse Echo data from different channels can be viewed. The Choice is Yours!

Our CommsBridge software is a small application that allows you to control either the TD-Scan or the Focus-Scan units remotely across an Ethernet link. This is useful for analysing data at a remote location using your corporate network or if you use your unit as a 'black box'.

Hardware Setup Cont	rols		
Channel number	128 Software channels	TX/RX	Control Select probe connections
Channel Mode	Phased Array, ToFD, Pulse echo	Digitiser Control	8 or 14 Bits per sample
Pulse Width	Enter probe frequency—auto calculate	5	Up to 200Mhz sample rate
Amplifier Control	Gain—user controlled		Up to 256 averaging
	Select number of TCG (max 8)		op to zoo averaging
Probe Setup Controls			
Array Geometry	Linear	Offsets	Horizontal—distance from centreline, Vertical—distance
Probe Angle	User defined		from adjacent probe
Wave Type	Shear, Compression	Skip Correction	Flat Geometry
Probe Delay	Millimetres or microseconds	Balance Elements	Phased array only—response homogenisation
Direction (Skew)	User defined in relation to a centre line	Apodization	None, Hamming, Gaussian, Blackman-Harris
Strip-Scan	Active when Strip-Scan selected in 'Scanner'	Apoulzution	None, Hamming, Gaussian, Blackman Hams
Gate Controls	Active when Ship-Scan selected in Scanner		
Peak Time	Gate Crossing, Peak tip	A-scan mode	Off, Always, If Peak in Gate
		Peak Mode	
I/F Trigger	Off—no interface trigger,	Peak Mode	Off. All Peaks, First-Thinnest, First-Thickest
	On—interface trigger activated for emersion		Between, Between-Thinnest,
/F Trigger Setup	On, Off		Between-Thickest, Loss of Signal
Filters			
Rectifier	Disabled(RF), Full wave,	Low Pass Filter	User selectable
	Half wave-, Half wave+	High Pass Filter	User selectable
Filter	Post rectification signal smoothing		
Focal Law Generator (	F-Law) - Phased Array only		
ocus Mode	Range, Horizontal, Vertical	Manual Delay Entry	On, Off
TX Control Wedge Parameters	First Active element	RX Control	First Active element
	Number of active elements		Number of active elements
	Index points/Stride	Dynamic Focussing	Focal Range Minimum & Maximum
	Focal range	Angle Emission point override	User defined adjustments
	Element 1 connection	Angle Control	Swept, Fixed
	On, off	Swept angle (Sectorial)	Minimum/maximum angle, angular Step
wedgerarameters			
	First Flement at—Top or Bottom		Ty / Ry angles
	First Element at—Top or Bottom	Fixed Angle	Tx / Rx angles
	First element height	Fixed Angle Focal Law Balancing	Interactive procedure to equalise amplitude across a range
	First element height First element to diffuser	5	5
	First element height First element to diffuser Angle (of probe face to scan surface)	5	Interactive procedure to equalise amplitude across a range
Other	First element height First element to diffuser	5	Interactive procedure to equalise amplitude across a range
Other	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge	Focal Law Balancing	Interactive procedure to equalise amplitude across a range of focal laws
Time Corrected Gain	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge 8 curves (1 per channel)	5	Interactive procedure to equalise amplitude across a range
Time Corrected Gain Image Colour Pallets	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge 8 curves (1 per channel) Amplitude, depth, user definable	Focal Law Balancing Report Generator	Interactive procedure to equalise amplitude across a range of focal laws User definable headings & input text & scan image printing
Time Corrected Gain Image Colour Pallets Import Setups	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge 8 curves (1 per channel)	Focal Law Balancing	Interactive procedure to equalise amplitude across a range of focal laws
Time Corrected Gain Image Colour Pallets Import Setups Scanner Controls	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge 8 curves (1 per channel) Amplitude, depth, user definable From setup file or existing scan file	Focal Law Balancing Report Generator TD Super-View	Interactive procedure to equalise amplitude across a range of focal laws User definable headings & input text & scan image printing User defined data presentation on & offline
Time Corrected Gain Image Colour Pallets Import Setups Scanner Controls Manual Input	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge 8 curves (1 per channel) Amplitude, depth, user definable From setup file or existing scan file Manual un-encoded scanning	Focal Law Balancing Report Generator TD Super-View Single Axis	Interactive procedure to equalise amplitude across a range of focal laws User definable headings & input text & scan image printing User defined data presentation on & offline Semi & automated, encoded or free run
Time Corrected Gain Image Colour Pallets Import Setups Scanner Controls Manual Input XY Raster (Dual Axis)	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge 8 curves (1 per channel) Amplitude, depth, user definable From setup file or existing scan file Manual un-encoded scanning Semi & automated, encoded or free run	Focal Law Balancing Report Generator TD Super-View Single Axis Rotational / Radial	Interactive procedure to equalise amplitude across a range of focal laws User definable headings & input text & scan image printing User defined data presentation on & offline Semi & automated, encoded or free run Semi & automated tube scanning
Time Corrected Gain Image Colour Pallets Import Setups Scanner Controls Manual Input XY Raster (Dual Axis) Arm Scanner	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge 8 curves (1 per channel) Amplitude, depth, user definable From setup file or existing scan file Manual un-encoded scanning Semi & automated, encoded or free run Dual axis rotating arm scanners for corrosion mapping	Focal Law Balancing Report Generator TD Super-View Single Axis	Interactive procedure to equalise amplitude across a range of focal laws User definable headings & input text & scan image printing User defined data presentation on & offline Semi & automated, encoded or free run Semi & automated tube scanning Track probe position using video camera for corrosion
Time Corrected Gain mage Colour Pallets mport Setups Scanner Controls Vanual Input YR Raster (Dual Axis) Arm Scanner Viotion Control	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge 8 curves (1 per channel) Amplitude, depth, user definable From setup file or existing scan file Manual un-encoded scanning Semi & automated, encoded or free run	Focal Law Balancing Report Generator TD Super-View Single Axis Rotational / Radial	Interactive procedure to equalise amplitude across a range of focal laws User definable headings & input text & scan image printing User defined data presentation on & offline Semi & automated, encoded or free run Semi & automated tube scanning
Time Corrected Gain mage Colour Pallets mport Setups Scanner Controls Vanual Input KY Raster (Dual Axis) Arm Scanner Viotion Control Data Analysis	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge 8 curves (1 per channel) Amplitude, depth, user definable From setup file or existing scan file Manual un-encoded scanning Semi & automated, encoded or free run Dual axis rotating arm scanners for corrosion mapping PID Loops for accurate positional control	Focal Law Balancing Report Generator TD Super-View Single Axis Rotational / Radial Video Tracking	Interactive procedure to equalise amplitude across a range of focal laws User definable headings & input text & scan image printing User defined data presentation on & offline Semi & automated, encoded or free run Semi & automated tube scanning Track probe position using video camera for corrosion mapping
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Time Corrected Gain mage Colour Pallets mport Setups Scanner Controls Vanual Input KY Raster (Dual Axis) Arm Scanner Viotion Control Data Analysis	First element height First element to diffuser Angle (of probe face to scan surface) Urasonic velocity of wedge 8 curves (1 per channel) Amplitude, depth, user definable From setup file or existing scan file Manual un-encoded scanning Semi & automated, encoded or free run Dual axis rotating arm scanners for corrosion mapping PID Loops for accurate positional control A,B,C,D & S scan, P/E, P/A, ToFD User definable panel configuration for data images	Focal Law Balancing Report Generator TD Super-View Single Axis Rotational / Radial Video Tracking	Interactive procedure to equalise amplitude across a range of focal laws User definable headings & input text & scan image printing User defined data presentation on & offline Semi & automated, encoded or free run Semi & automated tube scanning Track probe position using video camera for corrosion mapping Strip-Scan Zone discrimination for pipelines ToFD Full ToFD analysis
Time Corrected Gain mage Colour Pallets mport Setups Scanner Controls Vanual Input KY Raster (Dual Axis) Arm Scanner Viotion Control Data Analysis	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge 8 curves (1 per channel) Amplitude, depth, user definable From setup file or existing scan file Manual un-encoded scanning Semi & automated, encoded or free run Dual axis rotating arm scanners for corrosion mapping PID Loops for accurate positional control A,B,C,D & S scan, P/E, P/A, ToFD User definable panel configuration for data images View data from multiple channels individually or	Focal Law Balancing Report Generator TD Super-View Single Axis Rotational / Radial Video Tracking Normal Data	Interactive procedure to equalise amplitude across a range of focal laws User definable headings & input text & scan image printing User defined data presentation on & offline Semi & automated, encoded or free run Semi & automated tube scanning Track probe position using video camera for corrosion mapping Strip-Scan Zone discrimination for pipelines ToFD Full ToFD analysis Pulse Echo Corrosion Mapping, Welds
Time Corrected Gain Image Colour Pallets Import Setups Scanner Controls Manual Input XY Raster (Dual Axis) Arm Scanner Motion Control Data Analysis	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge 8 curves (1 per channel) Amplitude, depth, user definable From setup file or existing scan file Manual un-encoded scanning Semi & automated, encoded or free run Dual axis rotating arm scanners for corrosion mapping PID Loops for accurate positional control A,B,C,D & S scan, P/E, P/A, ToFD User definable panel configuration for data images View data from multiple channels individually or over-layed	Focal Law Balancing Report Generator TD Super-View Single Axis Rotational / Radial Video Tracking Normal Data	Interactive procedure to equalise amplitude across a range of focal laws User definable headings & input text & scan image printing User defined data presentation on & offline Semi & automated, encoded or free run Semi & automated tube scanning Track probe position using video camera for corrosion mapping Strip-Scan Zone discrimination for pipelines ToFD Full ToFD analysis Pulse Echo Corrosion Mapping, Welds
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Time Corrected Gain Image Colour Pallets Import Setups Scanner Controls Manual Input XY Raster (Dual Axis) Arm Scanner Motion Control Data Analysis	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge 8 curves (1 per channel) Amplitude, depth, user definable From setup file or existing scan file Manual un-encoded scanning Semi & automated, encoded or free run Dual axis rotating arm scanners for corrosion mapping PID Loops for accurate positional control A,B,C,D & S scan, P/E, P/A, ToFD User definable panel configuration for data images View data from multiple channels individually or over-layed Image filtering, zoom functions Corrected skip overlay	Focal Law Balancing Report Generator TD Super-View Single Axis Rotational / Radial Video Tracking Normal Data Presentation	Interactive procedure to equalise amplitude across a range of focal laws User definable headings & input text & scan image printing User defined data presentation on & offline Semi & automated, encoded or free run Semi & automated tube scanning Track probe position using video camera for corrosion mapping Strip-Scan Zone discrimination for pipelines ToFD Full ToFD analysis Pulse Echo Corrosion Mapping, Welds Long Range Corrosion mapping -inaccessible a Straighten, linearise, SAFT, lateral/backwall removal,
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Time Corrected Gain mage Colour Pallets mport Setups Scanner Controls Vanual Input KY Raster (Dual Axis) Arm Scanner Viotion Control Data Analysis	First element height First element to diffuser Angle (of probe face to scan surface) Ultrasonic velocity of wedge 8 curves (1 per channel) Amplitude, depth, user definable From setup file or existing scan file Manual un-encoded scanning Semi & automated, encoded or free run Dual axis rotating arm scanners for corrosion mapping PID Loops for accurate positional control A,B,C,D & S scan, P/E, P/A, ToFD User definable panel configuration for data images View data from multiple channels individually or over-layed Image filtering, zoom functions Corrected skip overlay User definable weld overlays Defect sizing by cursors or echo-dynamic Off-line gain control Dynamic sizing range up to 400% FSH Output data as text Depth, Range, Amplitude, angle, Channel, focal	Focal Law Balancing Report Generator TD Super-View Single Axis Rotational / Radial Video Tracking Normal Data Presentation ToFD	Interactive procedure to equalise amplitude across a range of focal laws User definable headings & input text & scan image printing User defined data presentation on & offline Semi & automated, encoded or free run Semi & automated tube scanning Track probe position using video camera for corrosion mapping Strip-Scan Zone discrimination for pipelines ToFD Full ToFD analysis Pulse Echo Corrosion Mapping, Welds Long Range Corrosion mapping -inaccessible ai Straighten, linearise, SAFT, lateral/backwall removal, contrast, parabolic cursors, overlay text, echo-dynamic, file split/join, data reversal, create bitmap, output data as text Views (time/amplitude, map, off, volumetric channels, couplant check, Go/no-go), auto defect mark-up & size

