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> ZETEC THE INSPECTION ADVANTAGE

TOP[®]64 Fully Integrated, Portable Phased Array UT & TFM Device ULTRA-INTELLIGENT ULTRASOUND

Now Available in 32 or 64 Channel Configuration!



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Specifications

Specifications in this document are subject to change

Size (H×W p)343 × 278 × 158 mm (13.5 × 10.9 × 6.2 in)Weigh (including one battery)9,62 (0.0 is)Multi-Touch Display12.1 in - 1024 × 228 pixelsAir IntakeNoBattery OperationYeisPhased Array Connector29/2 G7 (2000)Phased Array Channels29/2 G7 (2000)Amplitude Resolution16-bitsMaxement Gates41.9 spchronization gate (peak, crossing, autocrossing)Data Interfaces64/8 (2000)Maximum PRF540 klaData Compression1500 kg (2000)Max Applied Voltage Spchromization1500 kg (2000)Restlication500 kg (2000)Bardwich (3 dB)0.9 kla (160 kg (2000)Pictering0.9 kla (160 kg (2000)Filtering0.9 kla (160 kg (2000)Filtering0.9 kla (160 kg (2000)Sectional Compression0.9 kla (160 kg (2000)Filtering0.9 kla (160 kg (2000)Filtering0.9 kla (160 kg (2000)Automated Probe Detection10 kg (2000)Automated Probe Detection10 kg (2000)Automated Scanner Detection10 kg (2000)Filtering0.9 kla (160 kg (2000)Filtering0.9 kla (160 kg (2000)Filtering0.9 kla (160 kg (2000)Automated Scanner Detection10 kg (2000)Filtering Scanner Detection10 kla (160 kg (2000)Filter		
Multi-Touch Display12.1 in . 1024 x 728 pixelsAir IntakeNoBattery OperationYeSPhased Array ConnectorZPACPhased Array Channels32/128Pr, 64/64PR or 64/128PRUT Channels2 P/E or 2 P/CAmplitude Resolution16-bitsMeasurement Gates4 + 1 synchronization gate (peak, crossing, autocrossing)Data Interfaces4 4 1 synchronization gate (peak, crossing, autocrossing)Maximum PRF6 404klzData Compression1,54,8,16Max. Applied Voltage (50 ohms)150Vpp PA UT (Bipolar) / 75V (Unipolar) / 200V UTBandwith (-3 dB)0;5 to 18 MHz PA cito 2 5 of 5 MHz UTSectificationDigitalStore Store St	Size $(H \times W \times D)$	$343 \times 278 \times 158 \text{ mm} (13.5 \times 10.9 \times 6.2 \text{ in})$
Air IntakeNoBattery OperationYesPhased Array ConnectorZPACPhased Array Channels22/128/PR,64/64/PR or 64/128/PRUT Channels21/26 Or 2 P/CAmplitude Resolution16-bitsMeasurement Gates4 + 1 synchronization gate (peak, crossing, autocrossing)Data Interfaces54/04/PR or 20/CMaximum PRF54/04/PR or 20/CData Compression1, 2, 4, 8, 16Max. Applied Voltage (50 ohms)150/Vp PA UT (Bipolar) /75V (Unipolar) / 200V UTBandwidth (-3 dB)0.5 to 18 MH2 PA 0.5 to 25 MH2 UTPitteringAnalog / DigitalFilteringAnalog / Digital (FIR)Smothing10gitalAutomated Probe DetectionYes (with Zetec probe ID chip)Automated Probe DetectionYes (with Zetec probe ID chip)Automated Probe DetectionYes (with Zetec probe ID chip)TFM Frame RateUp to 110 Hz (65K points frame resolution)Maximum Number of Samples16,384Ausimum Data File Size26B ** Unlimited groupsEncoder Interfaces3 quadrature-typeOnboard SoftwareLicense for UltraVision TouchData Acquisition & Analysis (for remote data acquisition or uchUltraVision TouchData Acquisition & Analysis (for remote data acquisition or uchUltraVision TouchData Acquisition & Analysis (for remote data acquisition or uchUltraVision TouchData Acquisition & Analysis (for remote data acquisition or uchUltraVision TouchData Acquisition & Analysis (for remote data acquisition or uchU	Weight (including one battery)	9.1kg (20.0 lb)
Battery OperationYesPhased Array ConnectorZPACPhased Array Channels32/128PR 64/64PR or 64/128PRUT Channels32/128PR 64/64PR or 64/128PRAmplitude Resolution16-bitsMeasurement Gates4 + 1 synchronization gate (peak, crossing, autocrossing)Data InterfacesEthernet 1000 Base-T it xUS 3.0; 3 x US 3.0;Maximum PRF≤ 40 kHzData Compression1, 2, 4, 8, 16Max. Applied Voltage (50 ohms)150/0p PA UT (Bipolar) /75V (Unipolar) / 200V UTBandwidth (-3 dB)DigitalRectificationDigitalFilteringAnalog / Digital (FIR)Self-CheckYesAutomated Probe DetectionYes (with Zete probe ID chip)Automated Scanner DetectionYes (with Zete probe ID chip)TFM Frame SizeUp to 110 Hz (6St points fram resolution)TFM Frame Size3 quadruter-typeTFM Frame Size3 quadruter-typeOnboard Software2 GeB ************************************	Multi-Touch Display	12.1 in 1024 x 728 pixels
Phased Array ConnectorZPACPhased Array Channels32/128PR; 64/64PR or 64/128PRUT Channels2P/E or 2 P/CAmplitude Resolution16-bitsMeasurement Gates4 + 1 synchronization gate (peak, crossing, autocrossing)Data Interfaces4 + 1 synchronization gate (peak, crossing, autocrossing)Maximum PRF≤40 kHzData Compression1, 2, 4, 8, 16Max. Applied Voltage (50 ohms)150Vpp PA UT (Bipolar) /75V (Unipolar) / 200V UTBandwidth (-3 dB)0, 5 to 18 MHz PA 0, 5 to 25 MHz UTRectificationDigitalFilteringAnalog / Digital (FIR)SmoothingDigitalSelf-CheckYesAutomated Probe DetectionYes (with Zetec probe ID chip)Automated Scanner Detection16,384Maximum Number of Samples16,384Maximum Number of Samples16,384Maximum Number of SamplesUp to 11 M pointsFTM Frame SizeQef B ** Unlimited for raw A-Scan dataForce Interfaces3 quadrature-typeOnboard SoftwareUtraVision TouchData Quisition & Analysis (for remote data acquisition or off line postprocessing)UtraVision TouchDitraVision TouchUtraVision To	Air Intake	No
Phased Aray Channels22/128PR; 64/64PR or 64/128PRUT Channels2 P/E or 2 P/CAmplitude Resolution16-bitsMeasurement Gates4 + 1 synchronization gate (peak, crossing, autocrossing)Data Interfaces1 stynchronization gate (peak, crossing, autocrossing)Maximum PRF< 40 kHz	Battery Operation	Yes
UT Channels2 P/E or 2 P/CAmplitude Resolution16-bitsMeasurement Gates4 + 1 synchronization gate (peak, crossing, autocrossing)Data InterfacesEthernet 1000 Base-T at SUSB 3.0; a V USB 3.0; a V USB 3.0;Maximum PRF< 40 kHz	Phased Array Connector	ZPAC
Amplitude Resolution16-bitsMeasurement Gates4 + 1 synchronization gate (peak, crossing, autocrossing)Data InterfacesEthernet 1000 Base-T 1 x USB 3.0; 3 x USB 2.0Maximum PRF< 40 kHz	Phased Array Channels	32/128PR; 64/64PR or 64/128PR
Measurement Gates4 + 1 synchronization gate (peak, crossing, autocrossing)Data InterfacesEthernet 1000 Base-T 1 x USB 3.0; 3 x USB 2.0Maximum PRF< 40 kHz	UT Channels	2 P/E or 2 P/C
Data InterfacesEthernet 1000 Base-T 1 x USB 3.0; 3 x USB 2.0Maximum PRF<40 kHz	Amplitude Resolution	16-bits
Data Interfaces1 x USB 3.0; 3 x USB 2.0Naximum PRF< 40 kHz	Measurement Gates	4 + 1 synchronization gate (peak, crossing, autocrossing)
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Bandwidth (-3 dB)0.5 to 18 MHz PA 0.5 to 25 MHz UTRectificationDigitalFilteringAnalog / Digital (FIR)SmoothingDigitalSelf-CheckYesAutomated Probe DetectionYes (with Zetec probe ID chip)Automated Scanner DetectionYes (with Zetec probe ID chip)# Focal Laws1024 with unlimited groupsTFM Frame SizeUp to 110 Hz (65k points frame resolution)Maximum Number of Samples16,384Auximum Data File Size3 quadrature-typeOnboard SoftwareUtraVision Touch embeddedServes as Protection KeyLicense for UltraVision TouchData Acquisition & Analysis (for remote data acquisition or off line postprocessingUltraVision Touch UltraVision 3Findeded Hard Drive26 GB SSDVideo OutputHDMIInstrument CalibrationMDIKation CalibrationSome Samples	Data Compression	1, 2, 4, 8, 16
Bandwidth (-3 dB)0.5 to 25 MHz UTRectificationDigitalFilteringAnalog / Digital (FIR)SmoothingDigitalSelf-CheckYesAutomated Probe DetectionYes (with Zetec probe ID chip)Automated Scanner DetectionYes (with Zetec probe ID chip)# Focal Laws1024 with unlimited groupsFIM Frame SizeUp to 1M pointsTFM Frame RateUp to 110 Hz (65k points frame resolution)Maximum Duta File Size3 quadrature-typeOnboard SoftwareJuta Vision TouchServes as Protection KeyUltraVision TouchData Acquisition & Analysis (for remote data acquisition or off line postprocessingUltraVision TouchVideo OutputHDMIInstrument CalibrationSoft BSSDNatiment CalibrationCompliant with ISO 18563-1 / EN 12668-1	Max. Applied Voltage (50 ohms)	150Vpp PA UT (Bipolar) /75V (Unipolar) / 200V UT
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Self-CheckYesAutomated Probe DetectionYes (with Zetec probe ID chip)Automated Scanner DetectionYes (with Zetec probe ID chip)# Focal Laws1024 with unlimited groupsTFM Frame SizeUp to 1M pointsTFM Frame RateUp to 110 Hz (65k points frame resolution)Maximum Number of Samples16,384Maximum Data File Size3 quadrature-typeOnboard SoftwareUltraVision Touch embeddedServes as Protection KeyUltraVision TouchOnbedded Hard Drive25 GB SSDVideo OutputHDMIInstrument CalibrationSompliant with ISO 18563-1 / EN 12668-1	Filtering	Analog / Digital (FIR)
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# Focal Laws1024 with unlimited groups# Focal Laws1024 with unlimited groupsTFM Frame SizeUp to 1M pointsTFM Frame RateUp to 110 Hz (65k points frame resolution)Maximum Number of Samples16,384Maximum Data File Size2 GB ** Unlimited for raw A-Scan dataEncoder Interfaces3 quadrature-typeOnboard SoftwareUltraVision Touch embeddedServes as Protection KeyLicense for UltraVision TouchData Acquisition & Analysis (for remote data acquisition or off line postprocessingUltraVision Touch UltraVision 3Embedded Hard Drive256 GB SSDVideo OutputHDMIInstrument CalibrationCompliant with ISO 18563-1 / EN 12668-1	Automated Probe Detection	Yes (with Zetec probe ID chip)
TFM Frame SizeUp to 11M pointsTFM Frame RateUp to 110 Hz (65k points frame resolution)Maximum Number of Samples16,384Maximum Data File Size2 GB ** Unlimited for raw A-Scan dataEncoder Interfaces3 quadrature-typeOnboard SoftwareUltraVision Touch embeddedServes as Protection KeyLicense for UltraVision TouchData Acquisition & Analysis (for remote data acquisition or off line postprocessingUltraVision Touch UltraVision 3Embedded Hard Drive256 GB SSDVideo OutputHDMIInstrument CalibrationCompliant with ISO 18563-1 / EN 12668-1	Automated Scanner Detection	Yes (with Zetec probe ID chip)
TFM Frame RateUp to 110 Hz (65k points frame resolution)Maximum Number of Samples16,384Maximum Data File Size2 GB ** Unlimited for raw A-Scan dataEncoder Interfaces3 quadrature-typeOnboard SoftwareUltraVision Touch embeddedServes as Protection KeyLicense for UltraVision TouchData Acquisition & Analysis (for remote data acquisition or off line postprocessingUltraVision Touch UltraVision 3Embedded Hard Drive256 GB SSDVideo OutputHDMIInstrument CalibrationCompliant with ISO 18563-1 / EN 12668-1	# Focal Laws	1024 with unlimited groups
Maximum Number of Samples16,384Maximum Data File Size2 GB ** Unlimited for raw A-Scan dataEncoder Interfaces3 quadrature-typeOnboard SoftwareUltraVision Touch embeddedServes as Protection KeyLicense for UltraVision TouchData Acquisition & Analysis (for remote data acquisition or off line postprocessingUltraVision Touch UltraVision 3Embedded Hard Drive256 GB SSDVideo OutputHDMIInstrument CalibrationCompliant with ISO 18563-1 / EN 12668-1	TFM Frame Size	Up to 1M points
Maximum Data File Size2 GB ** Unlimited for raw A-Scan dataEncoder Interfaces3 quadrature-typeOnboard SoftwareUltraVision Touch embeddedServes as Protection KeyLicense for UltraVision TouchData Acquisition & Analysis (for remote data acquisition or off line postprocessingUltraVision Touch UltraVision 3Embedded Hard Drive256 GB SSDVideo OutputHDMIInstrument CalibrationCompliant with ISO 18563-1 / EN 12668-1	TFM Frame Rate	Up to 110 Hz (65k points frame resolution)
Maximum Data File Size** Unlimited for raw A-Scan dataEncoder Interfaces3 quadrature-typeOnboard SoftwareUltraVision Touch embeddedServes as Protection KeyLicense for UltraVision TouchData Acquisition & Analysis (for remote data acquisition or off line postprocessingUltraVision Touch UltraVision 3Embedded Hard Drive256 GB SSDVideo OutputHDMIInstrument CalibrationCompliant with ISO 18563-1 / EN 12668-1	Maximum Number of Samples	16,384
Onboard SoftwareUltraVision Touch embeddedServes as Protection KeyLicense for UltraVision TouchData Acquisition & Analysis (for remote data acquisition or off line postprocessingUltraVision Touch UltraVision 3Embedded Hard Drive256 GB SSDVideo OutputHDMIInstrument CalibrationCompliant with ISO 18563-1 / EN 12668-1	Maximum Data File Size	
Serves as Protection KeyLicense for UltraVision TouchData Acquisition & Analysis (for remote data acquisition or off line postprocessingUltraVision Touch UltraVision 3Embedded Hard Drive256 GB SSDVideo OutputHDMIInstrument CalibrationCompliant with ISO 18563-1 / EN 12668-1	Encoder Interfaces	3 quadrature-type
Data Acquisition & Analysis (for remote data acquisition or off line postprocessingUltraVision Touch UltraVision 3Embedded Hard Drive256 GB SSDVideo OutputHDMIInstrument CalibrationCompliant with ISO 18563-1 / EN 12668-1	Onboard Software	UltraVision Touch embedded
or off line postprocessingUltraVision 3Embedded Hard Drive256 GB SSDVideo OutputHDMIInstrument CalibrationCompliant with ISO 18563-1 / EN 12668-1	Serves as Protection Key	License for UltraVision Touch
Video Output HDMI Instrument Calibration Compliant with ISO 18563-1 / EN 12668-1		
Instrument Calibration Compliant with ISO 18563-1 / EN 12668-1	Embedded Hard Drive	256 GB SSD
	Video Output	HDMI
Ingress Protection Rating Designed for IP66	Instrument Calibration	Compliant with ISO 18563-1 / EN 12668-1
	Ingress Protection Rating	Designed for IP66

More Intelligent Inspections

Welcome to Ultra-Intelligent Ultrasound.

Introducing TOPAZ^{®64}, a fully integrated, portable 32 or 64 channel Phased Array Ultrasonic Testing (UT) instrument delivering faster, more accurate inspections. It combines the power of 32 or 64 active channels for Phased Array UT applications, with the industry's most advanced FULL MATRIX CAPTURE (FMC) and TOTAL FOCUSING METHOD (TFM) capabilities. TOPAZ⁶⁴ can intelligently handle all your challenging UT inspections using the latest technologies including:

- Full Matrix Capture (FMC) With up to 64 Elements
- Real-Time High Resolution Total Focusing Method (TFM)
- 32 or 64 Channel Code-Compliant Phased Array Ultrasound (PAUT)
- Time of Flight Diffraction (TOFD)
- Raw FMC Data Saving in Encoded Mode

Whether you are inspecting complex composite materials or thick welds, TOPAZ⁶⁴ delivers better coverage.





Driven by Industrially Proven UltraVision[®] Software.

TOPAZ⁶⁴ includes UltraVision Touch software onboard. This powerful, yet easy to use software controls the acquisition of Phased Array UT signals, displays real-time images and provides online and offline data analysis. UltraVision offers many advanced features for TOPAZ⁶⁴ to improve Phased Array UT inspections, including industry leading FMC, real-time high resolution TFM, and postprocessed TFM from recorded elementary A-Scan.

Smart Features

TOPAZ⁶⁴ is Packed With Smart Features for an Inspection Advantage.

- **Experience the Power.** Fully integrated, portable unit from 32:128PR to 64:128PR phased array configuration and 2 separate conventional UT channels at 200 V. One platform for easy upgrade.
- **Better Performance.** Best-in-class "live" TFM resolution delivering 65k points frame, up to 110 Hz. TOPAZ⁶⁴ delivers the highest TFM acquisition frequency in its segment.
- **Higher Resolution.** TOPAZ⁶⁴ can generate 1M points frame. No other portable instrument can match this resolution.
- **Full Inspection in One Go.** With the multi-mode capability, TOPAZ⁶⁴ can support PA+TFM+TOFD at the same time and can also support TFM+TFM on the same or different probes.
- **Save Time and Money.** Save raw A-Scan data for record-keeping compliance or TFM post-processing without the need to rescan.
- **Improve Probability of Detection.** New bipolar pulsers provide more energy to punch through thick components.
- **Use Less Equipment.** Supports 2D matrix arrays in pulse echo, pitch & catch or multiprobe configurations without the need for any external software.
- **Easy to Use.** The 12" high-resolution multi-touch display can be operated with gloves and delivers unmatched image quality.
- Ideal for Demanding Environments. Rugged, lightweight casing with no air intake.
- Increase Uptime, Wherever You Go. Battery operated and designed to accommodate two batteries in a hot swappable sequential discharge configuration.

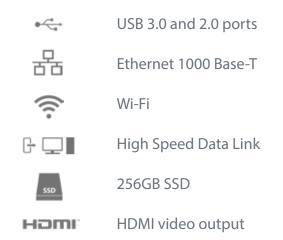




Adaptable to Meet Your Needs



Stay connected and productive





SPLITTER BOX ACCESSORY

Connect two PA probes at the same time for dual probe weld inspection configurations. (ZPAC and Omni versions available)

Your Inspection Needs Covered, Challenges Met. TOPAZ

The highly flexible TOPAZ⁶⁴ completes the TOPAZ family of portable integrated Phased Array ultrasonic instruments. From the unmatched value of TOPAZ¹⁶ and the redefined performance of TOPAZ³² to the ultra-intelligent TOPAZ⁶⁴, you'll quickly agree your needs will be covered, challenges met.

General Specifications

Voltage: 100 to 240 VAC

Frequency: 50 or 60 Hz

Maximum Power: 100 VA

Operating Temperature Range: -10°C to 45°C (14°F to 113°F)

Storage Temperature Range: -40°C to 70°C (-40°F to 158°F)

Relative Humidity: 80% non-condensing

CE mark is an attestation of the conformity with all applicable directives and standards of the European Community. The TOPAZ⁶⁴ is an instrument of class 1 and installation category II.

Specifications included in this document are subject to change.

Ordering Information

10059419 - ZPA-IUT-TOPAZ-32/128PR-TFM

Fully integrated portable Phased Array system featuring up to 32 active channels on up to 128-element probe. This instrument can either use the same 32 transmitters and receivers or can be operated in PR mode using up to 32 channels as transmitters and 32 others as receivers for advanced inspections, bipolar pulsers, 256K data points onboard, FMC/TFM capability.

10056334 - ZPA-IUT-TOPAZ-64/64PR

Fully integrated portable Phased Array system featuring up to 64 active channels on up to 64-element probe. This instrument can either use the same 64 transmitters and receivers or can be operated in PR mode using up to 32 channels as transmitters and 32 others as receivers for advanced inspections, bipolar pulsers.

10056335 - ZPA-IUT-TOPAZ-64/64PR-TFM

Fully integrated portable Phased Array system featuring up to 64 active channels on up to 64-element probe. This instrument can either use the same 64 transmitters and receivers or can be operated in PR mode using up to 32 channels as transmitters and 32 others as receivers for advanced inspections, bipolar pulsers, 256K data points onboard, FMC/TFM capability.

10056328 - ZPA-IUT-TOPAZ-64/128PR

Fully integrated portable Phased Array system featuring up to 64 active channels on up to 128-element probe. This instrument can either use the same 64 transmitters and receivers or can be operated in PR mode using up to 64 channels as transmitters and 64 others as receivers for advanced inspections.

10056337 - ZPA-IUT-TOPAZ-64/128PR-TFM HR

Fully integrated portable Phased Array system featuring up to 64 active channels on up to 128-element probe. This instrument can either use the same 64 transmitters and receivers or can be operated in PR mode using up to 64 channels as transmitters and 64 others as receivers for advanced inspections, bipolar pulsers, 1M data points onboard, FMC/TFM capability.

ed Array system reaturing up to -element probe. This instrument

ZPAC SPLITTER for TOPAZ⁶⁴ with fast easy attachment system including a solid security latch. It can manage ID data from 2 Phased Array probes allowing UltraVision to recognize them. It includes two pairs of Lemo connectors (individually isolated with switches) to convert 2 Phased Array channels into 2 conventional channels.

10056345 - ZPA-ACC-SPLTBOX64-ZPAC-2OMNI64+4UT Omni type SPLITTER for TOPAZ⁶⁴ with fast easy attachment system including a solid security latch. The splitter includes two pairs of Lemo connectors (individually isolated with switches) to convert 2 Phased Array channels into 2 conventional channels.

Phased Array probes are connected to a solid Zero Insertion Force secured connector whereas 4 Lemo 00 connectors can be used simultaneously for pulse echo or TOFD inspections.

System purchase includes: TOPAZ⁶⁴ unit with UltraVision Touch embedded, 2 batteries, 1 carrying case, 1 power cable (North America), 1 power cable (Europe), 1 AC adapter, 1 Ethernet cable, 1 USB Flash drive and user manual.

Zetec holds ISO 9001 and ISO/IEC 17025 certifications



FOR MORE INFORMATION ABOUT TOPAZ⁶⁴ OR OTHER ZETEC PRODUCTS CONTACT US AT info@zetec.com OR VISIT www.zetec.com.

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Environmental Tests

As per MIL-STD-810G Cold Storage - 502.5 procedure I Cold Operation - 502.5 procedure II Heat Storage - 501.4 procedure I Heat Operation - 501.4 procedure II Temperature Shock - 503.5 procedure II Vibration - 514.6 procedure I Transit Drop - 516.6 procedure IV

Drop Test - IEC61010-1

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10056338 - ZPA-IUT-TOPAZ-64/128PR-TFM HR-D

Fully integrated portable Phased Array system featuring up to 64 active channels on up to 128-element probe. This instrument can either use the same 64 transmitters and receivers or can be operated in PR mode using up to 64 channels as transmitters and 64 others as receivers for advanced inspections, bipolar pulsers, 1M data points onboard, FMC/TFM and raw A-Scan data saving capability.

Accessories Ordering Information