

I'm not a robot!

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Very powerful superior performance extremely portable Smart Phased Array Ultrasonic Flaw Detector and Recorder with 2 additional channels for conventional UT / TOFD designed and built under the drive for detection, production and reduction of the ISONIC 3510 inspection cost solves in a one way. Well-known fashion solutions now addressed by NDT and QA Management as an increase in the nomenclature and the complexity of the combined inspections with more demanding codes, standard the optimal adequacy of ISONIC 3510 for the resolution of the enormous variety of inspection tasks for all industries e Processes involving ultrasonic NDT are strongly supported by the characteristics listed above and technical and specific details under the detection of the flame and the thickness / mapping of the True-to-Geometry Volume Overlay and 3D Cover and Imaging Corrosion for: ass welding id ipit isoremun i rep enoisnacs id onaip led enoisnacs / otnemaiccart id oiggars lus elaeer opmet ni elatigid isaf a ilatigid isaf a reslup id erotivecir e enoisrevnac etnemetnednepidni elibaloger asseme atamogas e attaip ottatnoc id aiccaf noc eppez rep yarra e Āticolev id Āticolev ,)ologna e inoisnemid(airtemoeg alled acifirev adipar anu rep acitamotuaimes enituar erotide odratir / oenuc / ataroprocn AP adnos itnemelE 821 a onif 821 a onif onatropsart ehc AP iggadnos noc oroval id Āticapac etnemaenaropmetnac AP 2 a ednos el eranoiznuf raf rep inretlse rettilps oirassecen "Ā non- AP adnos alled ilanimreT 2 821 :821 a elibidnapse acinorttelE 23:23 alellarap etnematepmoc AP acinorttelE : ĀtiladoM)AP(isaf a yarrA 12-11- 1202 otnemanroigga omitLU 0153 CINOSI ... ortla otlom e G5,4,3 ,tenartnI ,NAL etimart itad id enoizisiuqca ,inoizacidni elled enoizavresso ,otomer ollortnac :PI us tU etnetu aiccafretnI ivitiutni ittefid ied gntroper e etnamralla ,gnizI S , .elaer opmet ni oediv ossulf led itad ien inigamMI %Ā Ā tuap RA(tuaP ytilaeR tnemguA TU ad otitsissa oediV - tuaV acitusartlu aipocsortcepS -)nacS- B azneuerf id oinimod(nacS- B DF MFT/CMF eviL enoisnacs alled ĀtirgetnI'llus otropapR aicsaf a inousartlu a ĀtilbisneS)itazzienegomo(itazzilauqe non itad id enoizisiuqca id %001 la itarobale non itad : ĀtirgetnI arutrepa id tset id enoizecir e elibarebil elibarebil enoissimE 821 :821 x 1 46 : 46 x 2 46:46 x 1 23:23 x 2 23:23 x 1 61:61 x 2 61:61 x 1 : Ātin assets allad alellarap etnematepmoc alellarap etnematepmoc AP ĀtilanoiznuF otseihcir anretse rettilps anussen :etnemaenaropmetnac AP ednos 2 o 1 cce esoidar eera e ilogna iuc art epa'd odin a itrap ,ortev id arbif ,avruc e attaip oinobrac id arbif ni inollub a anibrut a elap ,itibaidneppa rep inrep ,onapart rep etsa e ivac ireblA and and complex geometry welds, shafts, bolts, spindles, composite profiles, and the like 8192 independently adjustable focal laws On-the-fly focal law editing ability Bi-polar square wave initial pulse: up to 300 Vpp / 100 dB analogue gain / 0.2...25 MHz bandpass / 16 bit 100 MHz ADC / 32 taps smoothly tunable digital filter Regular and volume overlay true-to-shape B-Scan / Sector Scan (S-Scan) / Horizontal Plane S-Scan (CB-Scan) coverage accompanied with all-codes-compliant A-Scan based evaluation Multigroup coverage composed of several cross-sectional B- and S-Scans (scan plans) out of the same probe simultaneously Interface Echo start Strip Chart Single group and multigroup Top (C-Scan), Side, End View imaging formed through encoded / time-based line scanning, 3D-Viewer Single side / both sides weld coverage with use of one PA probe / pair of PA probes Top (C-Scan), Side, End View imaging formed through encoded XY- scanning, 3D-Viewer Scanning performance monitoring and recording along with inspection data: scanning speed, coupling monitor, and lamination checker under the wedged probe Equalized (homogenized) cross sectional coverage sensitivity: TCG-independent gain per focal law adjustment providing pure angle gain compensation (AGC) for S-Scan, etc DAC, TCG applied to defects imaging and evaluation in real time or at the postprocessing stage (DAC / TCG image normalization) Dynamic Focusing FMC, TFM, Back Diffraction Technique with / without and Mode Conversion Distinguishing and evaluation of diffracted and mode converted signals for defects sizing and pattern recognition Operating Linear Array (LA), Ring Array (RA), Daisy Array (DA), Matrix Array (MA), Dual Matrix Array (DMA), Dual Linear Array (DLA), and other PA probes FFT signal analysis - Ultrasonic Spectroscopy Ā;Ā%Ā for defect pattern analysis and materials structure characterization FD B-Scan (Frequency B-scan) for quick screening of the structure of the materials, other special tasks 100% raw data that acquire automatic results and alarming defects / generation of defects that can be changed immediately to the completed scan or in the post-processing phase advanced defects of sizing and recognition of the Ust pattern and conventional ToFD: 2 CANALI MODI SINGOLA / DUALE DI PULSING / RICEVIZIONE PER OGNI CANNANO Bi-Polar Square Initial Wave Pulse: up to 300 VPP / 100 dB G analogue increase / 0.2 ... 25 MHz / 16 bit 100 MHz ADC / 32 tuned digital touches? 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Along with the intuitive user interface, portability, light operations and battery this makes it suitable for all kinds of daily ultrasound inspections that the PA mode is transported by the 32:32 non-multiple electronics completely parallel with issued opening and independent reception each can be composed of 1 ... 32 elements when using a PA or 1 probe 16 elements for probe in case of management of two PA probes 2 PA probes terminals allow operating of a pair of PA probes simultaneously with no need in an external splitter. 64- and 128-elements PA probes may be used with ISONIC 3510 when connected to instrument Ā;Ā%Ā terminals through miniature active extenders, which expand the functionality to fully parallel 1 X 64:64, 2 X 32:32, 1 X 128:128, and 2 X 64:64 (no multiplexing involved). The groups of PA probe elements forming emitting / receiving aperture may be fully or partially matching or totally separated allowing maximal flexibility whilst managing the incidence angles, focal distances, types of radiated and received waves including directly reflected and diffracted signals either mode converted or not Each channel is equipped with own pulser-receiver and A/D converter. 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Along with the intuitive user interface, portability, light operations and battery this makes it suitable for all kinds of daily ultrasound inspections that the PA mode is transported by the 32:32 non-multiple electronics completely parallel with issued opening and independent reception each can be composed of 1 ... 32 elements when using a PA or 1 probe 16 elements for probe in case of management of two PA probes 2 PA probes terminals allow operating of a pair of PA probes simultaneously with no need in an external splitter. 64- and 128-elements PA probes may be used with ISONIC 3510 when connected to instrument Ā;Ā%Ā terminals through miniature active extenders, which expand the functionality to fully parallel 1 X 64:64, 2 X 32:32, 1 X 128:128, and 2 X 64:64 (no multiplexing involved). The groups of PA probe elements forming emitting / receiving aperture may be fully or partially matching or totally separated allowing maximal flexibility whilst managing the incidence angles, focal distances, types of radiated and received waves including directly reflected and diffracted signals either mode converted or not Each channel is equipped with own pulser-receiver and A/D converter. Parallel firing, A/D conversion, and Ā;Ā%Āon-the-flyĀ;Ā digital phasing are performed for every possible composition and size of the emitting and receiving aperture so the implementing of each focal law is completed within a single pulsing/receiving cycle providing the maximal possible speed of material coverage ISONIC 3510 allows using of various types PA probes: linear, rings, and daisy arrays (LA, RA, and DA), dual linear arrays (LA), matrix arrays (MA), dual matrix arrays (DMA), etc In addition to PA electronics ISONIC 3510 carries 2 independent conventional channels for regular UT, TOFD, SRUT GW and other types of advanced inspection, imaging, and recording; each channel is capable for both single and dual modes of use The top level ultrasonic performance is achieved through firing PA, TOFD, and conventional probes with bipolar square wave initial pulse with wide-range-tunable duration and amplitude (up to 300 Vpp). The high stability of the initial pulse amplitude within entire duration of the positive and negative half-waves, the extremely short boosted rising and falling edges and the automatic adaptive damping improve the signal to noise ratio and allowing analog gain control over the range 0 100 dB for each ISONIC 3510 mode is a very powerful platform for a huge number of practical PA UT software applications available for activation at any time. Thanks to the exclusive True-To-Geometry volume cover and real-time image ISONIC 3510 is suitable for high-performance inspection of simple and complex geometric welds (butta, longitudinal, thread, turn, angle, elbow, etc.) with scanning from one or both sides simultaneously (if applicable), bolts, belt pins, wind turbines and other shafts, axles and flanges. Imaging content of this type of product The large 800X600 8.5 bright screen provides excellent resolution and visibility for all types of presentation of environmentally friendly inspection data along with the optimized energy consumption rate for external operation esaC esaC edoC EMSA V enoizeS noitanimaxE cinosartlu yarrA id elauNam led ozzilitU 1452 esaC edoC EMSA icidoc itneuges ia emrofnoc etnemaneip Ā 0153 id acincet alled ozzilitU - inousartlu a tseT - erutadlas elled ovitturtsid non tseT acinceT)DFOT(olov led enoizarffid alled ocinosartlu opmet led osu'l rep acitarP dradnatS 40 3732 E MTS 3002 ,21 beF otacilbbup ,641 N 2 GW/5 CS/121 CT/NEC# otnemucod enoizazzilamron al rep oeporue otatimoC .erutadlas id avorp al rep DFOT(thgilF-fO-opmet led enoizarffid id acincet alled etnadlas osu ,77312100 IW 3991:6077 SB dradnatS

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