

U-View Software

U-view is an ultrasonic testing software, which is specially designed for multi-axis auto-scanning systems. It integrates motion control, ultrasound excitation, data acquisition and imaging together. The main features are as follows:

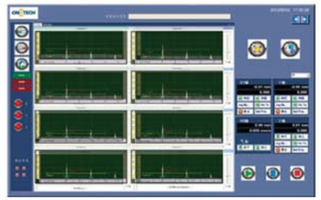
➢ Friendly User Interface



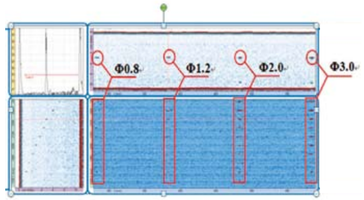
➢ Simple Operation Process



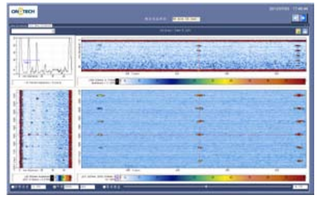
➢ Multi-channel Acquisition



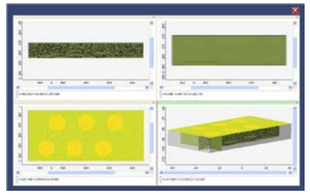
➢ Data Merging Display



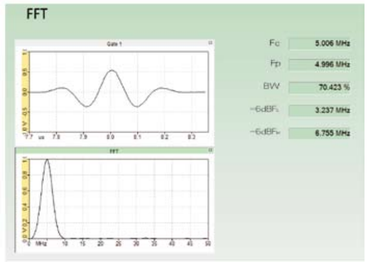
➢ Real-time A/B/C/D Scans Display, Store and Review



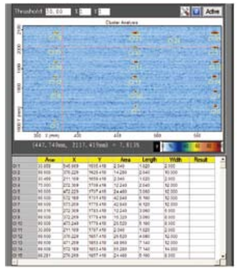
➢ 3D Data Reconstruction



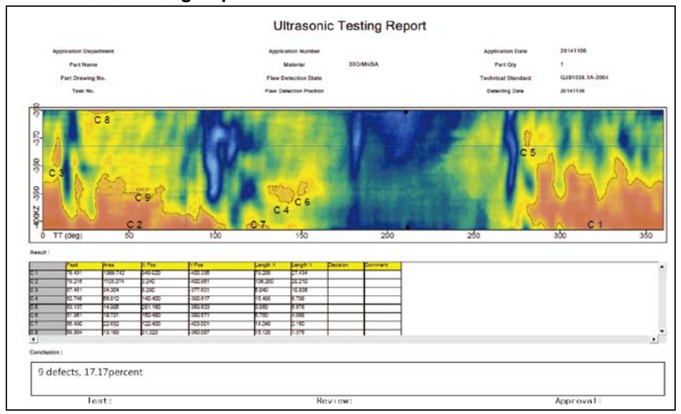
➢ FFT Measurement



➢ Cluster Analysis



➢ Customized Testing Report



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ON-TECH

Distributed and Sold by MATRIX U/E TECHNOLOGIES LTD

Modular Multi-axis planar Plate ultrasonic immersion Testing System F5

Product Model:AFIS-05





Smart Solution, Smart Integrator





Main Functions:

- Rapid scanning for large plates
- Defect-positioning function, easy to analyze defects
- Real-time A/B/C/D-scan display
- Available for data storage and review
- Excellent detection capability for all types of defects



Non contact follow-up probe group

Structural Features:

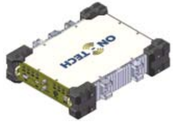
- Detection efficiency improved with 8 channels work simultaneously
- Hydraulic lifting device makes the operation of specimen more convenient
- Low noise electric system minimized electromagnetic interference
- Limit device and probe anticollision device ensure the system running safely
- High performance servo motor makes the system preciser and faster
- Hand-Controller makes operation more convenient



Contact follow-up probe group

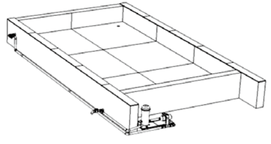
System Configuration:

EU-14 Conventional Multi-Channel Ultrasonic Instrument



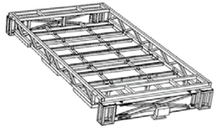
- A high-performance ultrasonic instrument, data transport by Ethernet
- Available for Pulse-echo, TOFD and immersion test.
- High pulse repetition frequency (20KHz)
- Protection Grade: IP67

Water Tank:



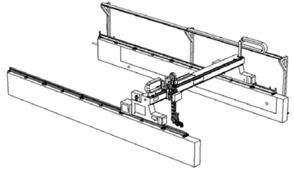
- Independent modular design
- Filtration capacity is 20um
- Filter cartridge replaceable

FX-38 Hydraulic Lifting Device:



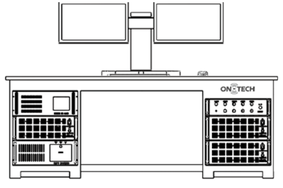
- Full stainless steel
- Rated load: 10t
- Size:8m*4m

MZ-05 Mechanical System:



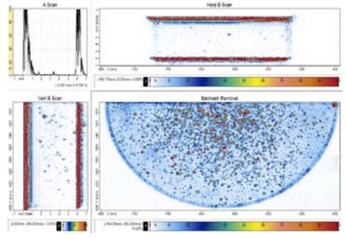
- Close loop servo with position coding feedback
- Linear axes driven by high precision ball guide screws
- High precision linear guide trail

Electrical Motion Control Module:



- Standard OT-2 operation table
  - Anti static operation table
  - Bilateral guide rail design
  - Available for multiple sets of standard chassis expansion
- High-performance IPC
- MC-series motion controller
  - Up to 8-axis servo motor control
  - Ethernet interface for communication
  - Servo power output protection

Specifications:



- Voltage:25~200V
- Pulse Width:20ns~500ns
- Impedance:50Ω-660Ω,step:8Ω
- PRF:1Hz~20KHz
- Gain:-12~70dB
- Bandwidth:0.75~25MHz
- Sampling Frequency:100MHz
- Number of Channels:8
- View:A,B,C,D-scan

- EU-18 Parallel Phased-Array Ultrasonic Instrument:
  - Conventional Channels: 16
  - Phased-Array Channels:32*32, 64*64, 128*128, 256*256, 512*512
  - Bandwidth: 0.75MHz~25MHz(-3dB)
  - Sampling Frequency: 100MHz
- Data Analysis:
  - Cluster Analysis--- Defects exceed standard will be marked and Auto-statistics
  - Histogram Analysis--- Count the points distribution of C-scan
  - FFT--- Measure the central frequency, peak frequency and bandwidth of the probe
- Palette-- gray, color, warm color, RF symmetry and user defined palette
- Operation Room:L*W*H=6000mm×2500mm×2600mm
- Scanner:L*W*H=1100mm×6000mm×4000mm
- Power:110-260V AC/32A/50Hz

