

SIUI

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A leading ultrasonic equipment manufacturer

Flaw Detector · Thickness Gauge · Probe

SIUI

CTS - 2020E

Digital Ultrasonic Flaw Detector

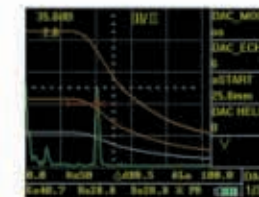
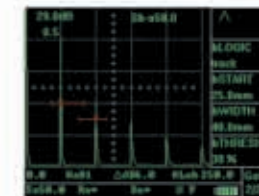
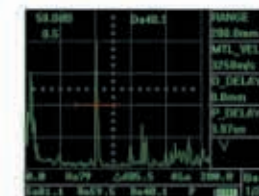
- USB Port
- High-speed Sampling
- Variable PRF
- Complete Functions
- Handy & Easy Operation



The CTS-2020E represents SIUI's persistent fine design concept: lightweight, portable, easy operation and powerful functions.

- Max. sampling rate 240MHz, Min. display range 5mm.
- Two operating frequency ranges: 1~4MHz and 0.5~10MHz, highlighting advantages of high sensitivity and broadband.
- Complete DAC curve function: convenient for echo evaluation.
- Probe angle (K value) measure function.
- Large memory for saving up to 500 data sets, including wave forms, curves, parameters, detection reports, etc.
- USB port for saving system stored data and data waveforms to a USB disk, as well as easy printing test reports.
- Large capacity lithium battery pack for continuous operation of over 6 hours.

Together with various techniques and functions such as DAC, large memory and USB port, the CTS-2020E becomes a handy ultrasonic flaw detector with excellent performance.

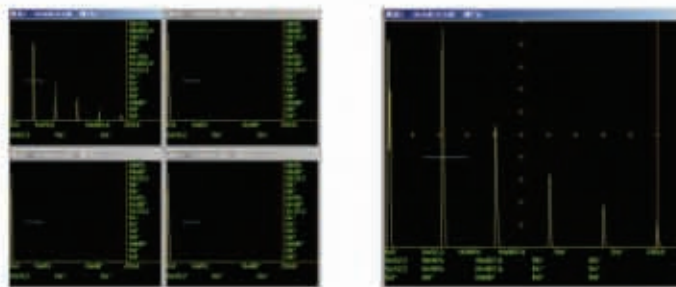


CTS - 808

Multi-Channel

Digital Ultrasonic Flaw Detector

By working with probe detection and mechanical drive devices, the CTS-808 multi-channel digital ultrasonic flaw detector can achieve automatic ultrasound testing on section steel such as steel tube, steel rod, steel billet and steel plate.



Main Features

- Multiple testing channels, multi-probe can be connected for testing at the same time.
- High detection sensitivity, at least 65dB detection sensitivity surplus for each channel.
- Interface wave tracking function.
- The automatic defect marking function can be set as delay marking or lengthened distance marking, with delay time or lengthened distance variable.
- Relevant alarm times selection: the relevant alarm times can be selected based on the actual situation, so as to avoid error alarm and improve anti-interference capability.
- Large memory for saving up to 500 data sets, including echoes, curves, parameters, detection reports, etc.
- Variable PRF, max. PRF as high as 2.5 KHz/channel.
- USB port for saving system stored data and echoes to a USB disk, as well as easy printout of test reports.
- Large screen and high-brightness color TFT LCD, bringing optimized effect for reading & measurement. Echoes and detection data for up to 4 channels can be displayed at the same time.
- LAN Ethernet port of the multi-channel flaw detector for real-time communication with a PC and remote control.
- Special database and powerful data processing function can be found in the PC, which is convenient for data storage, edit, classification, query, printing and transmission.
- In combination of displacement signals of the tested material provided by a mechanical drive device, and flaw echo signals from the flaw detector, B-scan and C-scan display can be achieved in the PC, displaying flaw position and equivalent flaw size directly.





CTS - 2200

Ultrasonic Flaw Detector

- High Sensitivity
- High Resolution
- Low Consumption
- Excellent Reliability & Stability



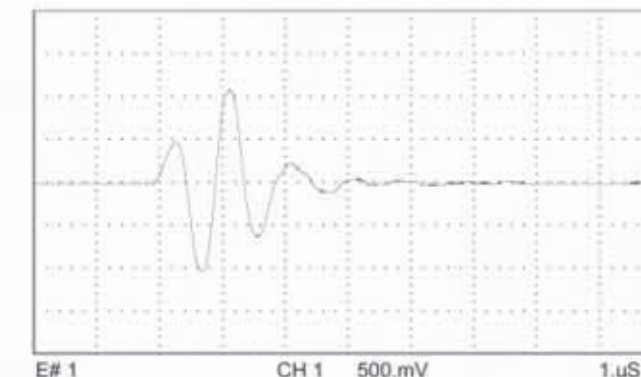
CTS - 39

Ultrasonic Thickness Gauge

- Precise Measurement
- Reliable Performance
- Handy Design
- Cost-effectiveness
- Excellent Reliability & Stability

High Performance Ultrasound Transducer

The line of ultrasound transducers includes normal, straight-beam, angle-beam, variable-angle, dual, immersion, focusing angle-beam, broadband normal transducers, composite transducers and phased-array transducers, which can meet different application requirements of the customers. In addition, OEM orders can be accepted subject to specifications and purchase quantity.



Enveloped Pulse Lengths

About SIUI

Dedication to industrial ultrasound

As one professional institute of ultrasound systems and transducers, SIUI has been dedicated to R&D and manufacture of ultrasound systems since 1978. Today, in virtue of powerful capacity of development and continuous dedication to persistent innovation, SIUI, an ISO certified company, is a professional ultrasonic testing equipment manufacturer in China's NDT industry. With good reputation and strong technical background, SIUI has established advanced manufacture technique and widespread sales network, with its products served in machinery, chemical industry, metallurgy, transportation, aerospace and so on.

SIUI, a leading ultrasonic equipment manufacturer

SIUI attracts a group of talents with strong R&D background, and equips with advanced facility. Every year, SIUI spends 10% of the sales revenue in technical research and development. Besides, SIUI also carries out technical cooperation with world famous scientific institutions, thus not only keeping SIUI in a leading place in China's ultrasound field, but also in a competitive position in the global ultrasound industry.

Complete product line

SIUI has a complete product line, including phased-array flaw detector, digital flaw detector, analog flaw detector, digital thickness gauge, and up to 500 models of UT transducers.

Phased Array Flaw Detector



CTS - 602

Phased Array Flaw Detector

- Advanced Technology
- Compact & Portable
- Powerful Functions
- High Performance

Hand-held Flaw Detector

Advanced Functions

CTS - 9009

Digital Ultrasonic Flaw Detector

- Small Size, Low Consumption
- High Performance, Multi-Purpose
- Lightweight, Easy Operation



Portable, Easy-to-Use, Reliable

— New Generation General-Purpose Digital Flaw Detector

- Compact & Portable: The whole unit weight (battery included) is approx. 1.15kg, suitable for aloft and field work.
- Easy to Use: There are just a few concisely-defined keys, easy to be operated with only one hand.
- Environmental Protection: This system is designed based on IP67 standard, suitable for complex industrial flaw detection environment.
- Super-low Consumption: The configured Li-polymer battery can support up to 7-hour continuous operation.
- Strong Performance: High resolution and penetration, achieving precise flaw detection from thin plates to large forged pieces.
- Complete Functions: Cineloop, probe frequency measurement, curved surface correction, RF display, USB storage, amplitude B-scan, AWS D1.1/D1.5, API 5UE evaluation standard.



Hand-held Flaw Detector



Basic Functions

CTS - 9006

Digital Ultrasonic Flaw Detector

- Small Size
- Low Consumption
- High Performance
- Multi-Purpose



Portable, Easy-to-Use, Reliable

—— New Generation General-Purpose Digital Flaw Detector

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- Strong Performance: High resolution and penetration, achieving precise flaw detection from thin plates to large forged pieces.



CTS - 4020E

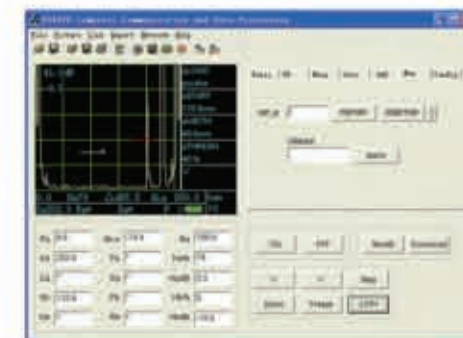
Digital Ultrasonic Flaw Detector

- Easy Operation
- Cineloop Function
- High-speed Sampling
- Network Communication
- Transducer Frequency Testing



The CTS-4020E adopts an embedded computer system and a super large-scale Field Programmable Gate Array (FPGA) design, which combine all good performance of a large ultrasound system in a very small size:

- Operating frequency range: 0.5~15MHz, at least 63dB detection sensitivity surplus, meeting detection demand for large forged pieces or coarse-crystal material.
- LAN Ethernet port for real-time communication with a PC (Host) and remote control.
- Cine loop function for recording dynamic scanning process.
- Interface wave tracking function: Immersion detection or precision measurement can be easily achieved through the logic relation between gate A and B.
- Probe angle (K value) and probe frequency measure function.
- Large capacity lithium battery pack for continuous operation of over 6 hours.



Together with new techniques and functions such as DAC, RF echo display, large memory and USB port, the CTS-4020E becomes a handy ultrasonic flaw detector with excellent performance.

