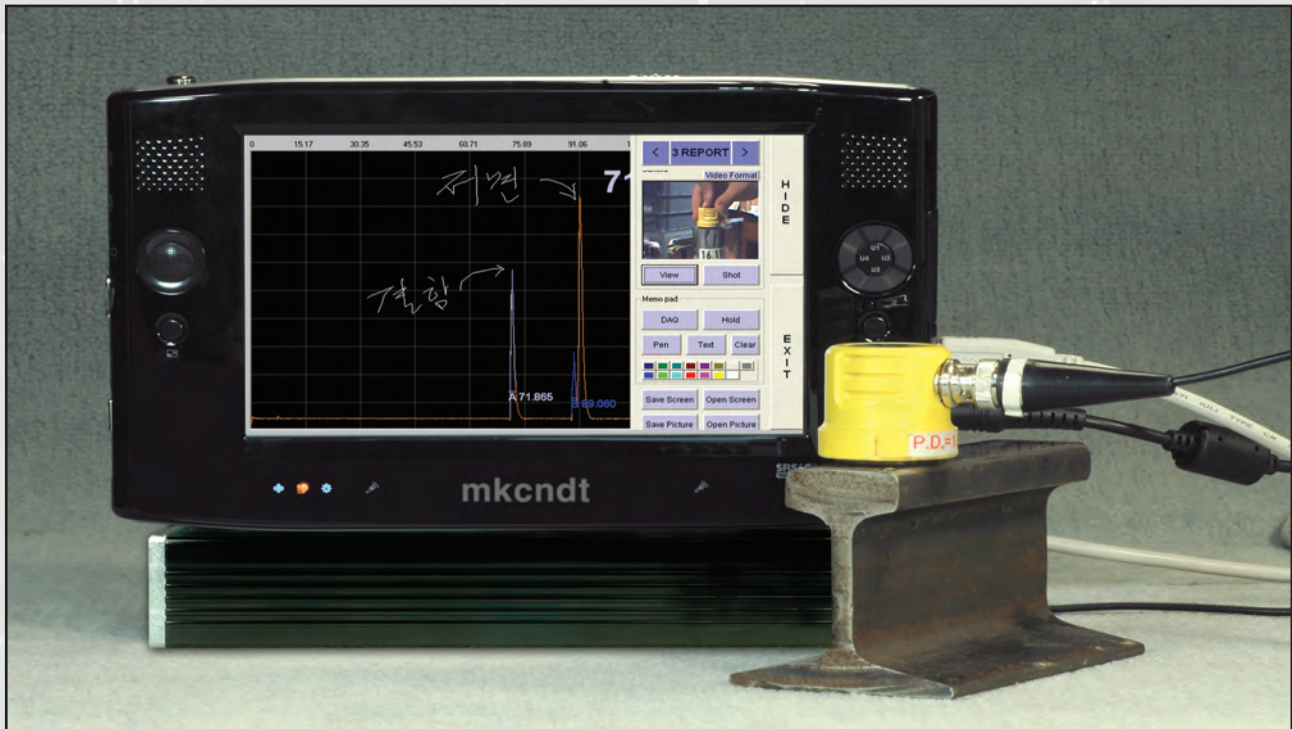


Ultrawave-2020 Integrated Flaw-Detection System



Ultrawave-2020 is an innovative ultrasonic flaw detector that is designed for system integration engineers while it also can be used for traditional field test.

This unit implements famous LabView technology enabling engineers to be able to utilize abundance of LabView tool kits for fast and well finished development of ultrasonic testing system.

Inside the compact Ultrawave-2020 circuitry, all basic flaw detector functions are integrated to communicate with LabView driver and engineers can easily develop customers' system. Developing signal processing functions such as Digital filters, Averaging, FFT and machine control function are now easy task with the aids of LabView tool kits.

When used as field test flaw detector, customers can use ultra-mobile computer and software package. All control buttons are accessed through touchpad-screen.

Features

- All hardware functions are controlled either by provided application or Labview driver.
- Collected Ultrasound waveforms are displayed on the provided application or transferred to LabView driver.
- High energy pulser that generates sharp ultrasonic signal and high gain low noise receiver.
- No battery is needed since power is provided through USB cable.
- Provided software analyzes and stores incoming data to the computer.
- With provided application, the hardware is controlled by touch screen.
- Customized application program is made as customers' need.
- Portable and compact housing.

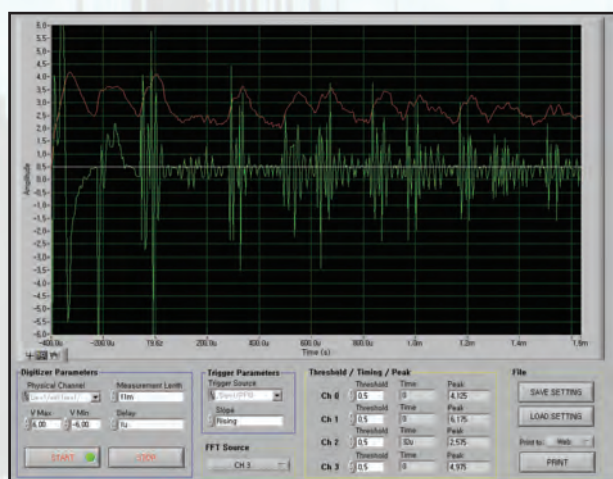
Ultrawave-2020 Integrated Flaw-Detection System

Includes

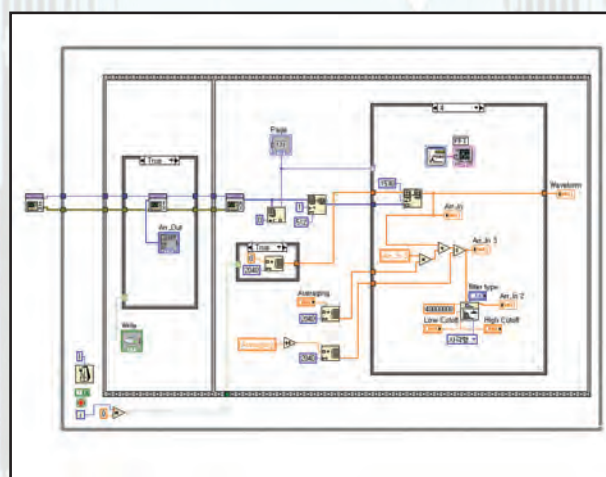
- Ultrawave-2020 main body
- Ultra-mobile PC(optional)
- Carrying bag(optional)
- Application software(optional)
- User manual

Specifications

- Frequency range: 0.5 ~ 10 MHz
- Pulse amplitude: 70 ~ 260 Volt
- Pulse rise time: 10 ~ 80 ns
- Velocity adjustment: 1000 m/s ~ 9999 m/s. (1 m/s step)
- Probe delay adjustment: 0 ~ 6.35 μ s, (0.025 μ s step)
- Gain: 0 to 80dB in 1dB steps
- Test modes: pulse echo and transmit/receive.
- Rectification: full wave, positive or negative halfwave and unrectified RF.
- PRF Adjustable maximum of 150, 250, 500, or 1000 Hz.
- Gate: Two independent gates for echo monitoring and thickness measurement.



Labview Application Example



Labview Diagram Example



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