

NEW PRODUCT

US-Wave

Ultrasound device single channel

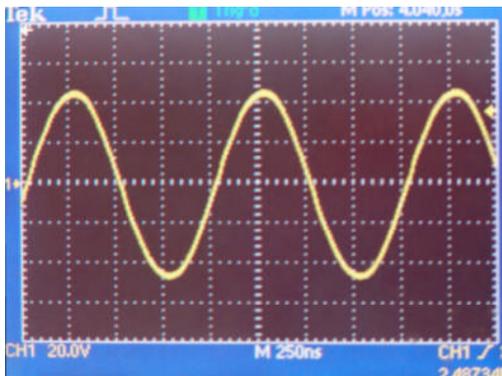
Features

- Analog transmitter
- Wide bandwidth
- USB2 High Speed connection
- Ultralow noise preamplifier : $0.74 \text{ nV}/\sqrt{\text{Hz}}$
- Waveform generator
- 50Ω load drive
- Digitizer 16 bits at 125 MSPS
- Programmable gain : 0 to 80 dB
- DAC curve
- Input impedance selection
- Windows XP / Vista / Seven
- DLL Matlab, Labview, ...

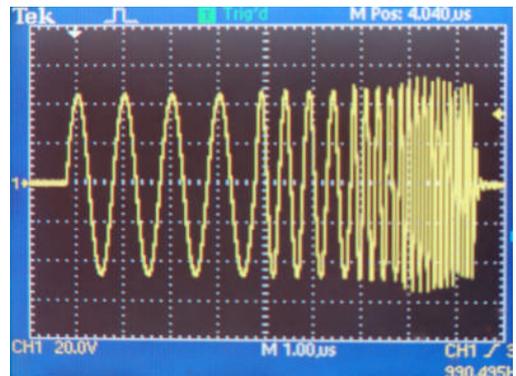
Applications

- Medical ultrasound imaging
- NDT metal flaw detection
- Research and university

Typical Waveform



Sine 1 MHz



Sine with various frequencies

General Description

US-Wave is the only ultrasound device single channel having a waveform generator to transmit and receive ultrasonic waves. Its high performances and its advanced technology allows to have an unique product for more applications like research and university.

The transmitter can generate different waveforms with variable voltage levels (± 50 Volts) and frequencies defined by the user. A low noise preamplifier combined to a VGA gives a gain range between 0 and 80 dB, a DAC curve is also available. A 16 bits analog digital converter with a sampling frequency of 125 MHz is used to digitize ultrasound signals.

The device has 2 working modes: Pitch & Catch or Pulse/Echo. You can select the input impedance to modify the dynamic or adapt the impedance line.

If you need any cost estimate, please feel free to contact us : bellinonathalie@gmail.com

You also can visit our website :

www.lecoeur-electronique.com