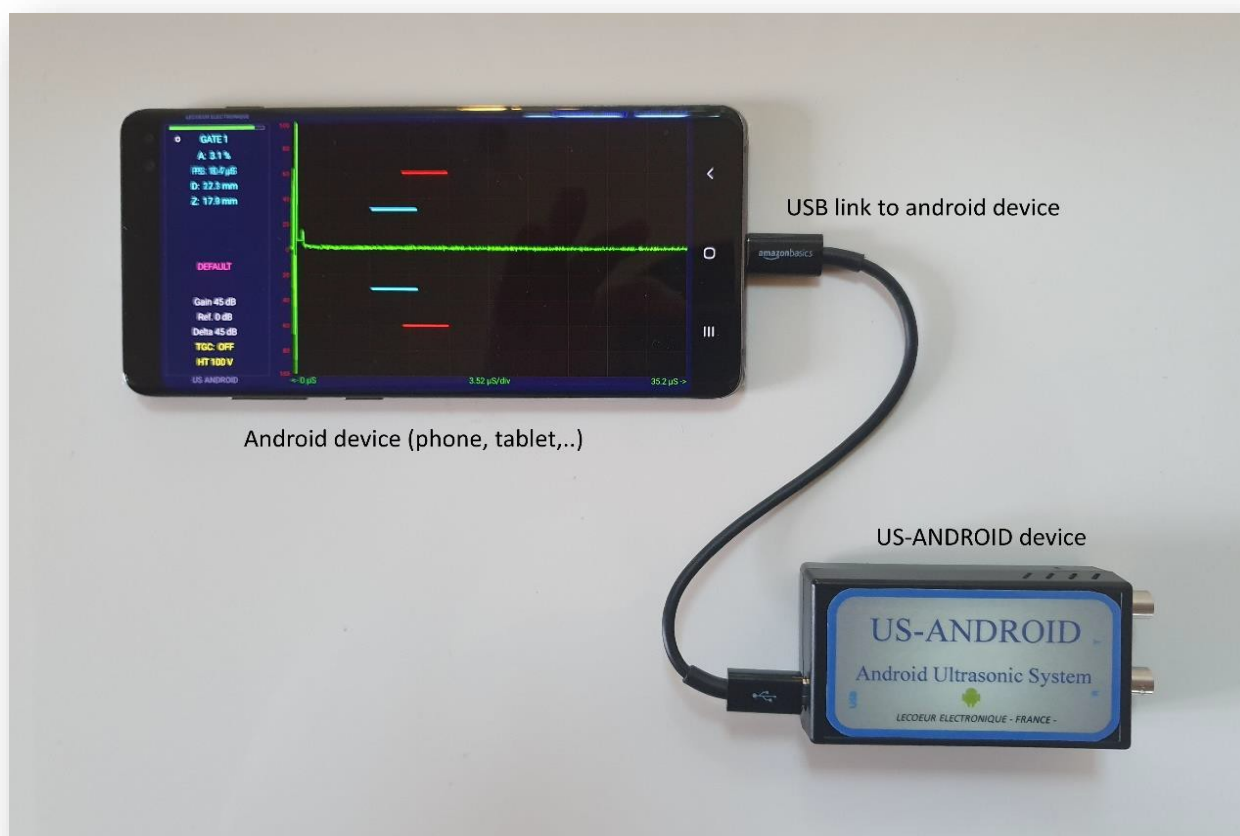


LeCoeur Electronique Android Ultrasound Device

US-ANDROID

Datasheet V0 01 2020





US-ANDROID is our latest ultrasound device, it transforms your phone or your tablet in a high performances UT instrument.

US-ANDROID is our new generation ultrasound devices with a single channel to transmit and receive ultrasonic waves. Its very small size and its advanced technology allow to have a unique product for more applications like medical ultrasound imaging, the NDT and also for the research and university. The transmitter can generate pulses with a voltage level and a width programmed 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 12 bits analog digital converter with a sampling frequency of 80 MHz is used to digitize ultrasound signals. The device has 2 working modes: Transmission or Reflection. The power supply is delivered by the USB connector of the android device.

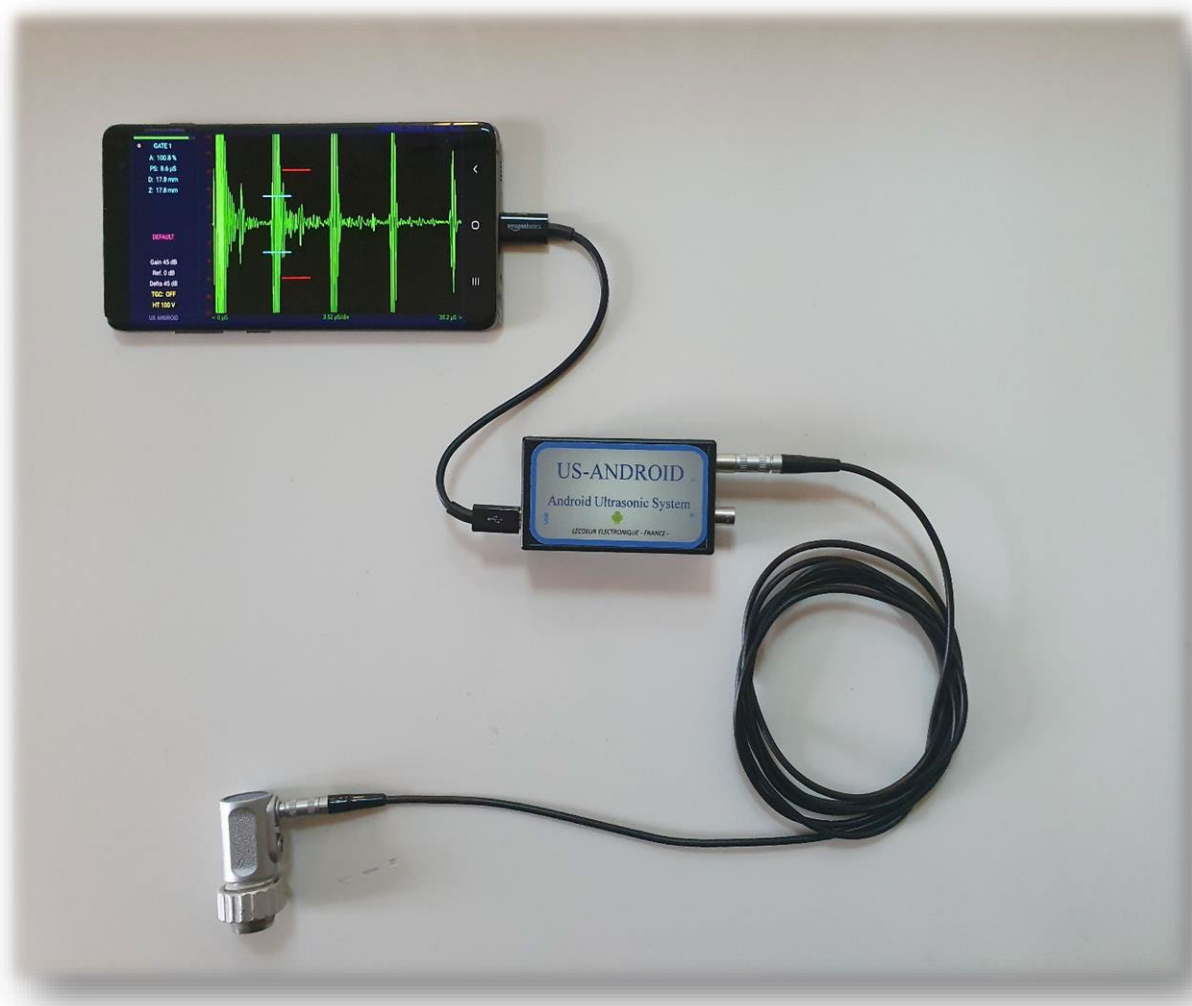


TECHNICAL SPECIFICATIONS

- *Android OS (V4.00 ->)*
- *4/6 Hours Autonomy (tested with Samsung S10 device)*
- *USB connection*
- *Tactile GUI*
- *Ultralow noise preamplifier: 0.74 nV/vHz*
- *6 dB bandwidth: 540 KHz to 18 MHz*
- *High voltage transmitting pulses (10 to 230 Volts)*
- *50 Ω load drive*
- *Single or double crystal operation (software selectable)*
- *Digitizer 12 bits at 80 MSPS*
- *Programmable gain: 0 to 80 dB*
- *DAC curve*
- *TGC curve*
- *USB powered*
- *Very small size: 70 x 36 mm*

PICTURES

Typical application (android device/ US-ANDROID / probe)

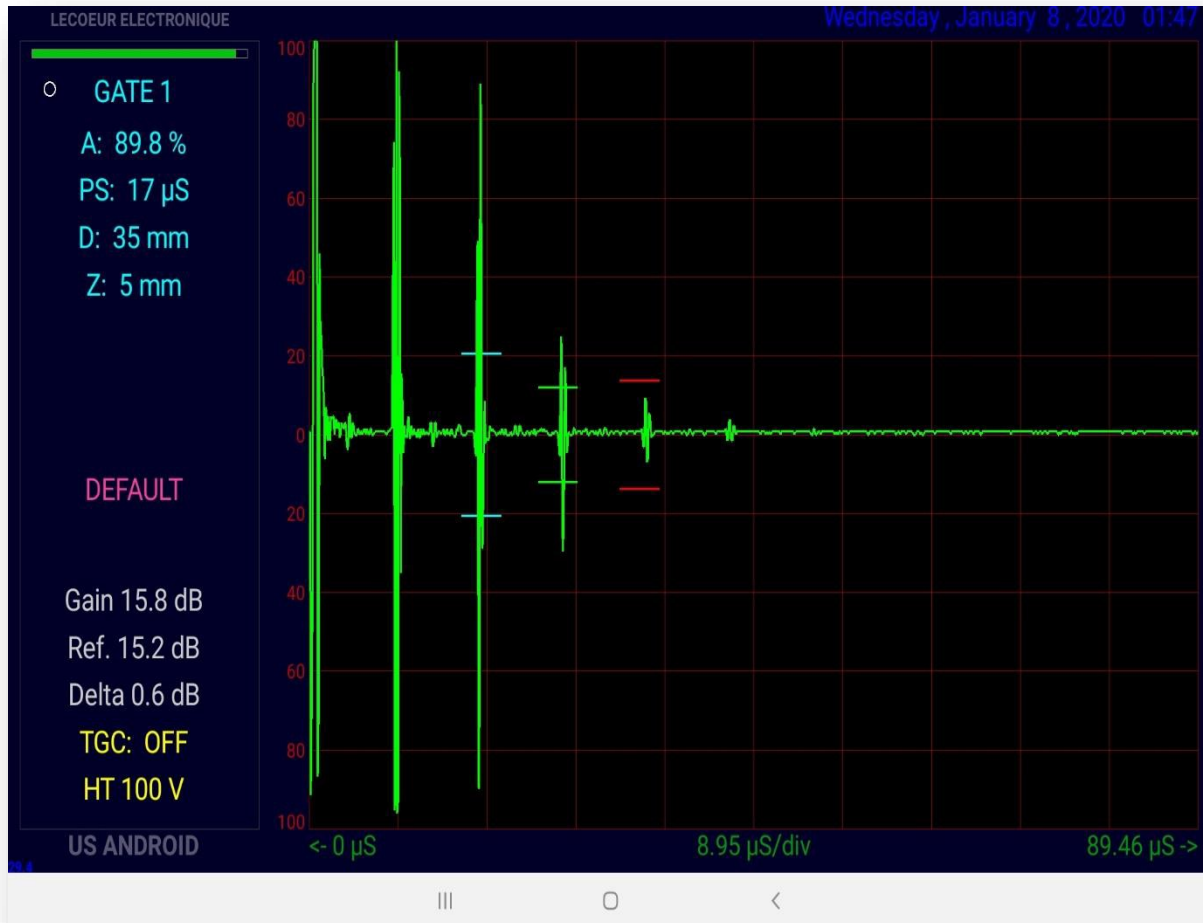


US-ANDROID fixed to the smart device (Adhesive Nano tape included)



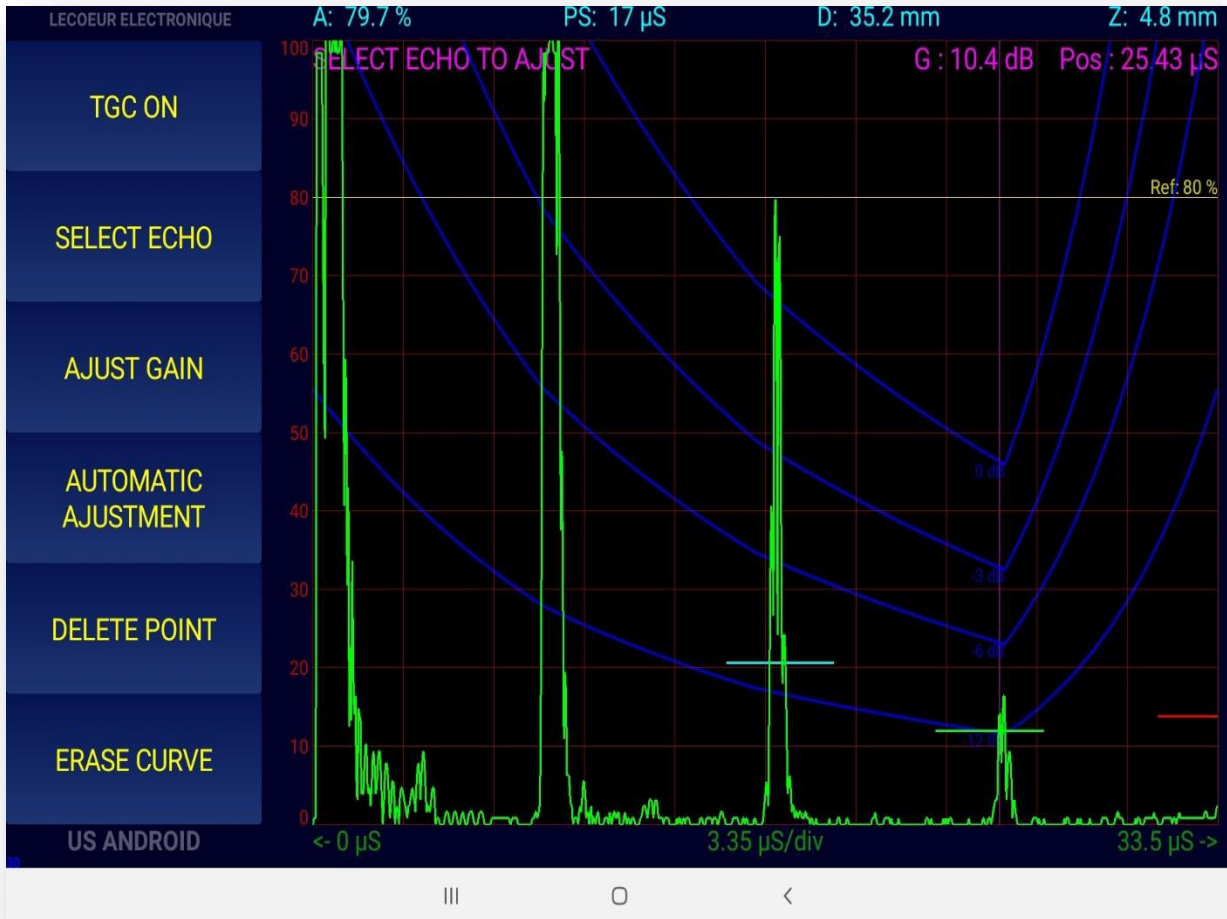


Main Menu



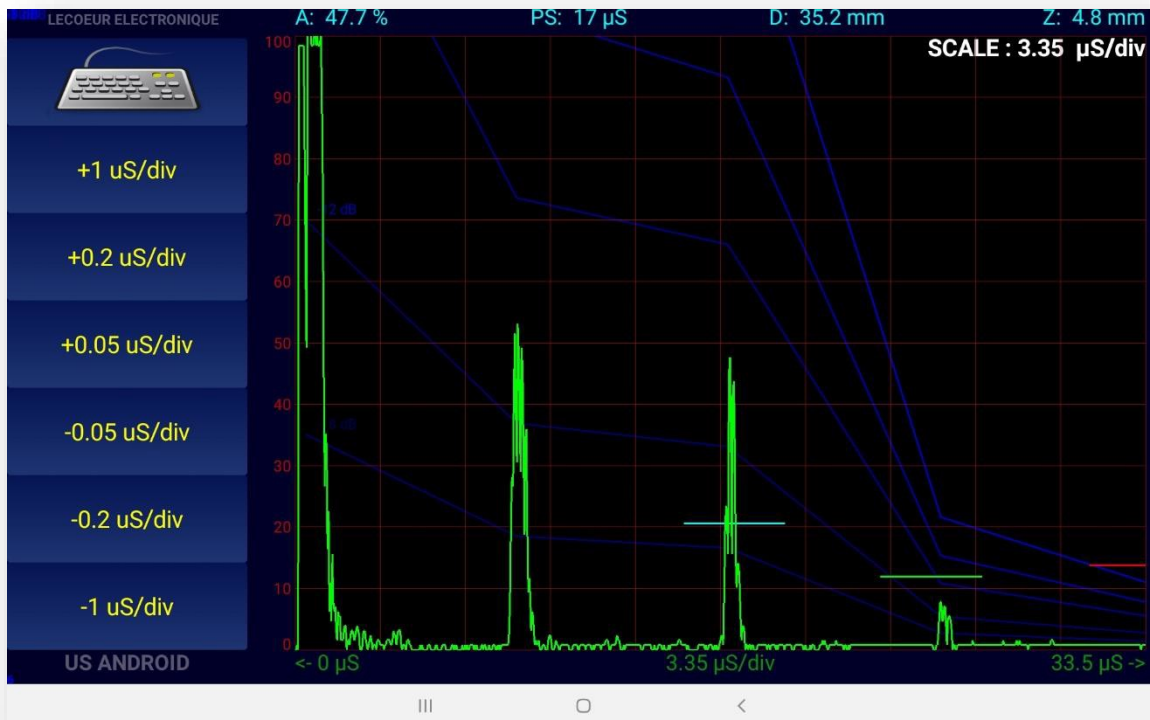
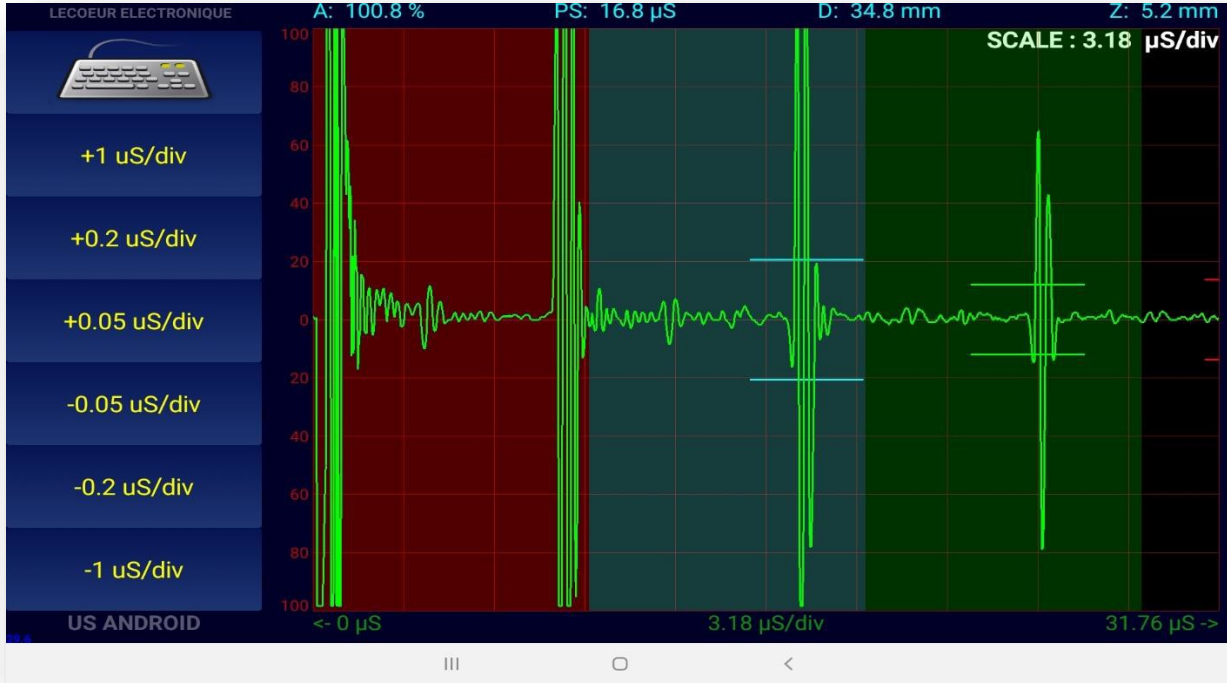


TGC



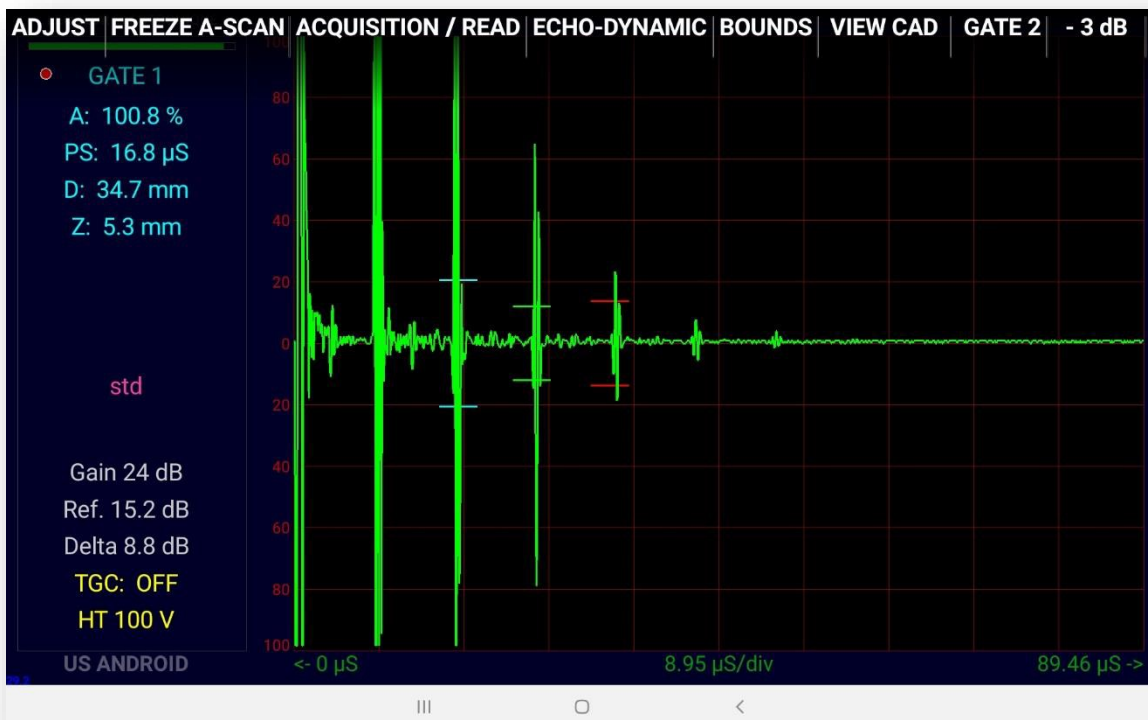


Other SC...



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