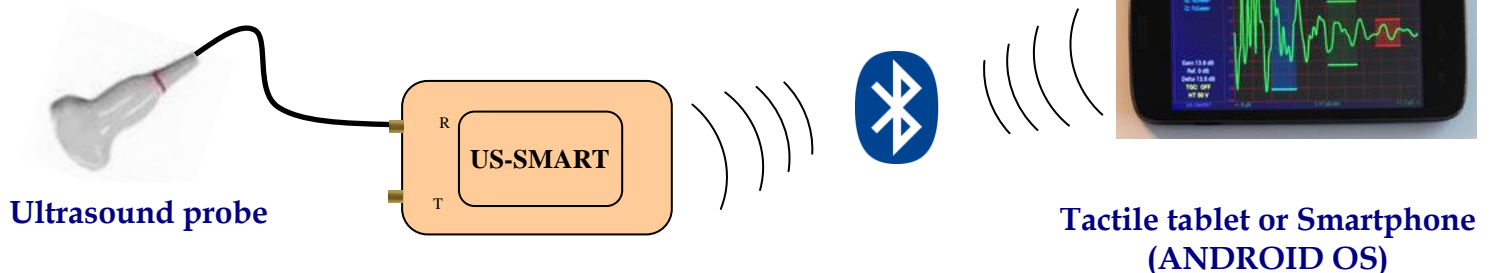


BLUETOOTH ULTRASONIC DEVICE US-SMART On ANDROID systems - wireless -



**Bluetooth connection between
the US SMART & the tablet or smartphone**



US - Smart

The US-Smart allows a ultrasonic wireless control using the bluetooth between the couple probe / US Smart and your tablet or smartphone.

By using the US-Smart, you'll have the possibility to make statements of measures until 8 m of the US Smart.

This device can also allows to realize various kinds of inspections such as welds, rails inspections, composite materials...

Features

- Bluetooth
- Android System
- Battery Li-Ion (capacity : 2 600 mAh)
- Battery life : 8 hours
- Available connectivity up to 8 m
- Ultralow noise preamplifier : $0.74 \text{ nV}/\sqrt{\text{Hz}}$
- - 6 dB bandwidth : 540 KHz to 18 MHz
- High voltage transmitting pulses
- 50 Ω load drive
- Digitizer 8 bits at 80 MSPS
- Programmable gain : 0 to 80 dB
- DAC curve

Applications

- NDT
- Trainings
- Teaching
- Android environment

General Description

The US-Smart is a unique worldwide device due to the BLUETOOTH connectivity and its ANDROID environment.

This ultrasonic device is powered supply via battery Li-Ion.

His main quality is its small size and its 'ready to use' concept.

The US-Smart has been created to simplify the NDT controls.

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.