

# AIRSCOPE SOLUTIONS

Main applications:

- Air-coupled NDT
- Positioning systems,
- Acoustic Vision
- Lamb waves
- Structural Health Monitoring.

**Available models:**

- Airscope TT (Monochannel)
- Airscope MX (Multichannel)
- Airscope PA (Phased Array)



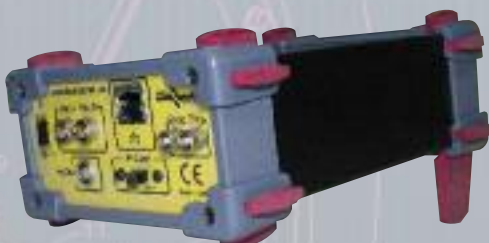
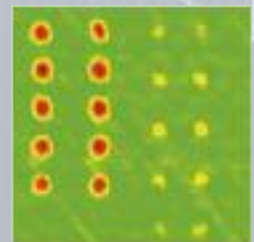
**AIRSCOPE - Technical features**

Bandwidth	30KHz to 1MHz
Dynamic range	80 dB
Tuned Squared Pulse	-20V to -800 V
Encoder inputs/trigger input	Yes
Advanced signal processing	EMI, AVR, FIR, etc
Airscope TT	1 channel
Airscope MX	Up to 8 channels
Airscope PA	Up to 64 channels



**Main Applications**

- Composites
- Plastics, Rubber & Foam
- Wood
- Aluminum



# AIR-COUPLED TRANSDUCERS

The air-coupled ultrasonic technique has shown to be very efficient and fast for the testing of large areas. The air-coupled technique avoids coupling problems like bubbles in water, but the large acoustic mismatch between solids and air must be solved with special transducers, a powerful excitation as well as hardware and software signal processing.

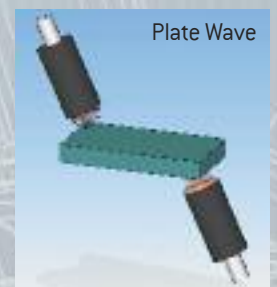
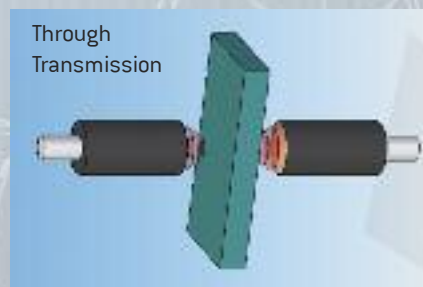
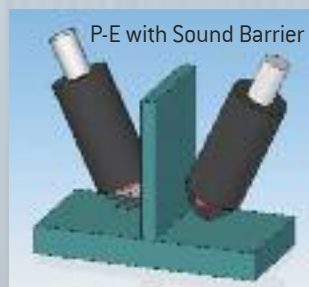
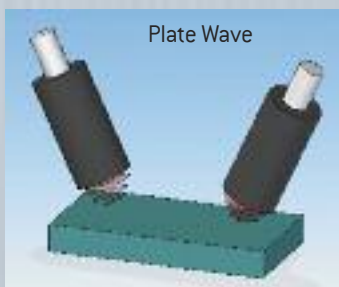
## Features:

- Connectors: BNC / SMB / Lemo00.
- Housing: anodized aluminum.
- Electric Matching with Airscope series
- Crown to protect the radiant surface
- Each pair of transducers is identical and can be



used without distinction as a sender or receiver. All transducers can also work in pulse-echo mode.

- Compatibility: The transducers have been successfully tested with DASEL devices (Airscope TT/MX/PA).



Transducers: planes, untargeted, piston radiation

Transducer	Center Frequency (MHZ)	Active Diameter [mm]	Band Width (%)*	Focussed and Unfocussed
DS-25-D	0.25	25 / 50 / 100	65	NO / YES
DS-40	0.40	25 / 100	60	NO
DS-100	1	25	60	YES / YES
DS-XXX	Customizable	Customizable	Customizable	Customizable

\* Tolerance: 5%

