DR. HILLGER

Ingenieurbüro

USPC 4000 AirTech

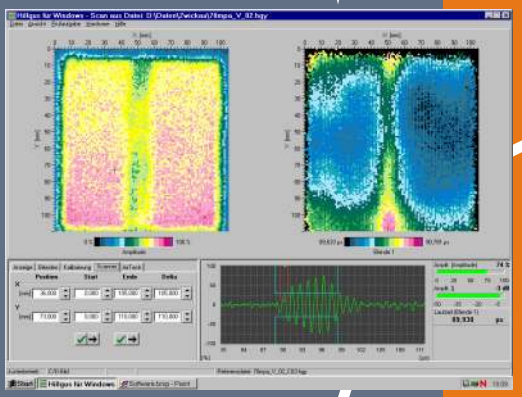
Highlights

- Air-coupled high resolution ultrasonic imaging
- Easy handling
- Modular design
- Basic version: A-, C- and D-scans
- Instruction and initial operation on location
- Training by request

Applications

- Quality control
- Testing of metallic, ceramic, composite materials and wood
- Indication of internal defects: debondings, inclusions, delaminations, ...
- Research and development

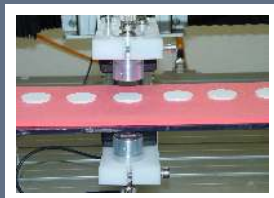
The **USPC 4000 AirTech** provides non-contact ultrasonic testing with air in single shot technique.
Because of the large impedance mismatch between solids and air, special transducers and a special pulser/receiver system are necessary. The programmable burst transmitter of the USPC 4000 AirTech enables high power for the excitation. On the other hand, the separate ultra-low noise preamplifier and the signal processing on the receiver side indicate the lowest pulses with a high signal to noise ratio. The system provides a maximum pulse repetition frequency of 5 kHz! Our software *Hillgus for Windows* enables an easy operation of the system. Not only A-, B-, C- and D-scans can be processed, but also full-wave data recording with software-evaluated A-, B-, C-, and D-scans.

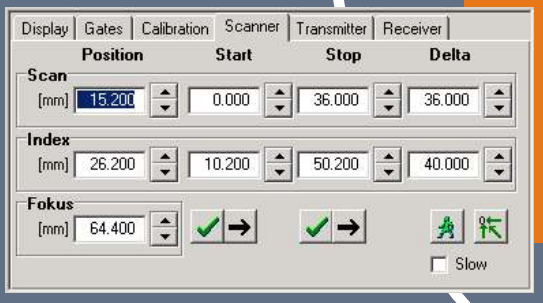


The ultrasonic imaging system **USPC 4000 AirTech** provides high resolution, multiple applications and easy handling. The system consists of a 19” rack containing the ultrasonic system and the motor controller. Additionally the scanner with probe holders is included. The modular design enables both easy upgrades and/or modification for new applications even after several years.

Options:

- Digital high pass and low pass filters
- 12 or 14 Bit ADC
- Fast full-wave data recording
- F-scan (FFT-scan)
- Scanner with enlarged area (500x 500mm, or even larger)





INGENIEURBÜRO
DR. HILLGER
High-Tech-Ultrasonic-Technique

Wilhelm-Raabe-Weg 13
D-38110 Braunschweig
Germany

Phone: +49 5307 7945
Fax: +49 5307 5734
E-mail: info@Dr-Hillger.de

www.Dr-Hillger.de