



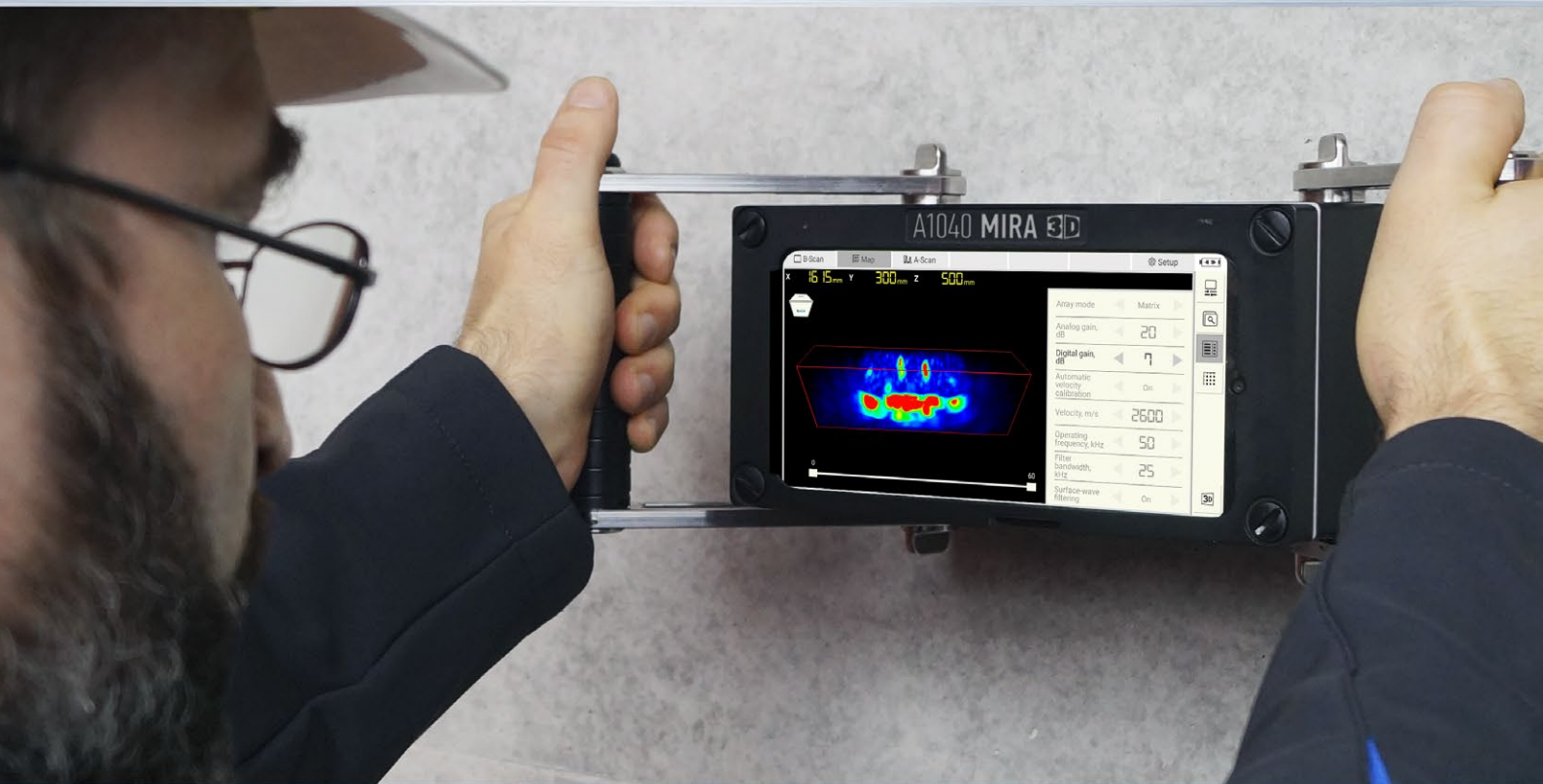
**ACOUSTIC
CONTROL
SYSTEMS**

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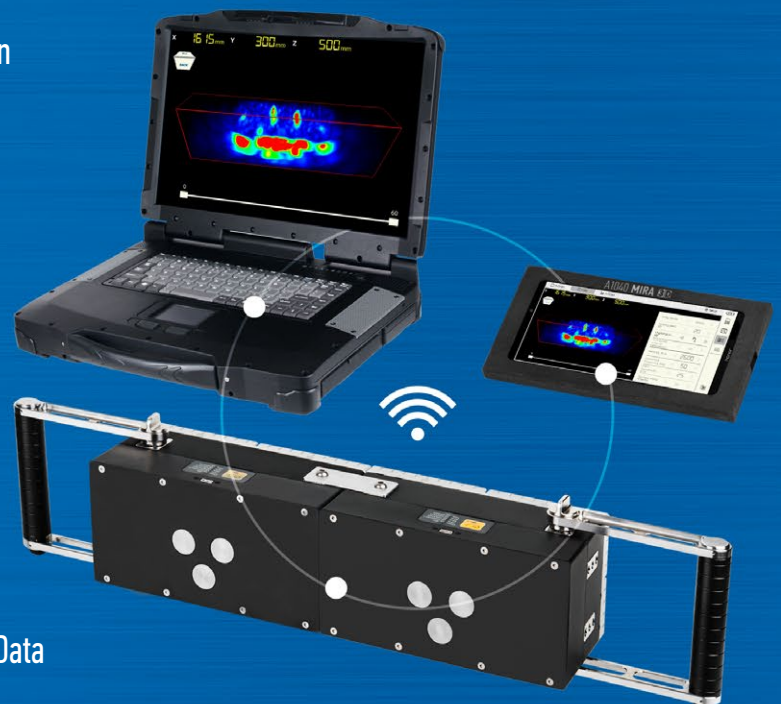
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A1040 MIRA 3D

Ultimate Ultrasonic Tomograph for quality assessment of concrete structures



- **True3D® Tomography** - three-dimensional FMC / TFM in each instrument position in real time
- **A-DPC® Transducers** - unbeatable penetration depth & sensitivity by the novel low-noise sensor technology
- **Open-Crack Sizing** - unique function for quantitative crack assessment
- **Extendable Aperture** - arbitrary aperture configuration by two and more array units
- **INTROVIEW® Pro** - Desktop or Laptop software for remote unit control and 3D visualization & analysis of Big Data



Specification:

Parameter	Value
Configuration of a single A-DPC® transducer array (extendable by further arrays)	4 x 8
Number of parallel DAQ channels	32
Frequency bandwidth, kHz	10 to 100 KHz
Penetration depth (depending on concrete properties)	up to 3 m / 10 ft
Maximal square coverage	10 x 10 m ² / 33 x 33 sq. feet
Frame repetition rate	
• 2D imaging	25 Hz
• 3D imaging	2 Hz
Operating time with one battery charge	Up to 10 hours

Special features:

- **Real-time 3D Imaging**
- Data acquisition in three-dimensional **Full-Matrix-Capture** mode
- **GPU based** image reconstruction by **3D Total Focusing Method**
- Active Dry-Point-Contact (**A-DPC®**) transducers with integrated pulser-received circuit and **parallel DAQ**
- **Deep penetration** mode with enhanced transmitter burst energy
- **Versatile 2D&3D imaging** modes by **INTROVIEW® PRO** software
- Remote unit control via **Tablet-PC or Laptop** for stand-alone applications
- Application software for **ANDROID & WINDOWS** in standard delivery set



3D Software INTROVIEW® Pro:

Volume compilation modes

- Single Scan
- Area Scan
- Panorama B-scan & D-Scan

3D view modes:

- ISO-Surface
- Maximum Intensity Projection (MIP)

2D view modes:

- Side view (B-, D-Scan)
- Top view (C-Scan)
- Cutting plane
- Gated volume



Delivery set:

 **MADE IN GERMANY**

Name	Quantity, pcs.
Electronic unit with 32 x A-DPC® transducers	1
Tablet-PC with protective case	1
Reference block for regular functional tests	1
Exchangeable Li-Ion battery 18650	6
Type C power supply	2
Data cable USB Type C	2
INTROVIEW® Pro Software with 12 Months	1
Update & Support service	1
Hard case	1
Warranty certificate	1
Operating Manual	1
Screwdriver for battery exchange	2