



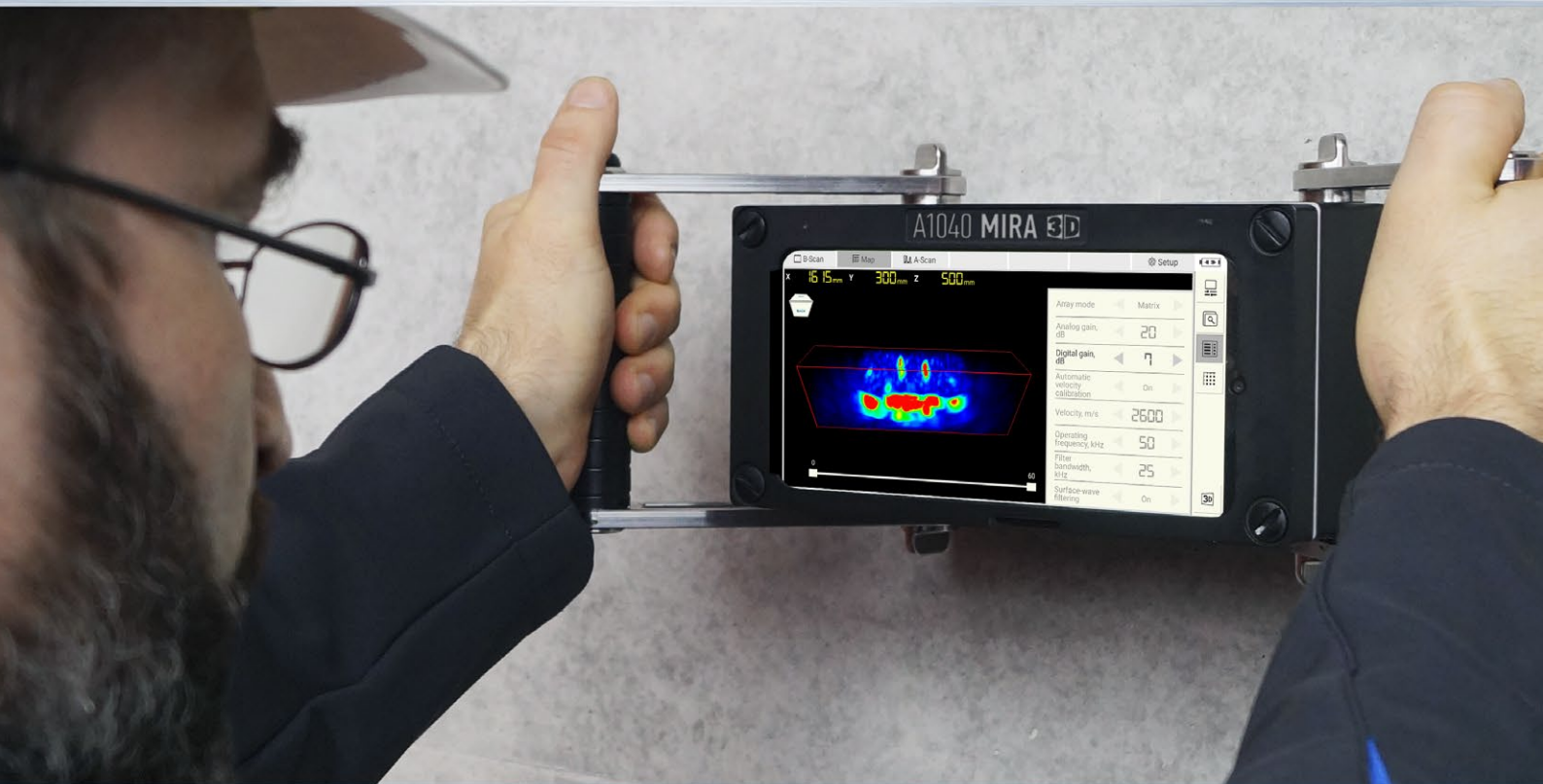
**ACOUSTIC
CONTROL
SYSTEMS**

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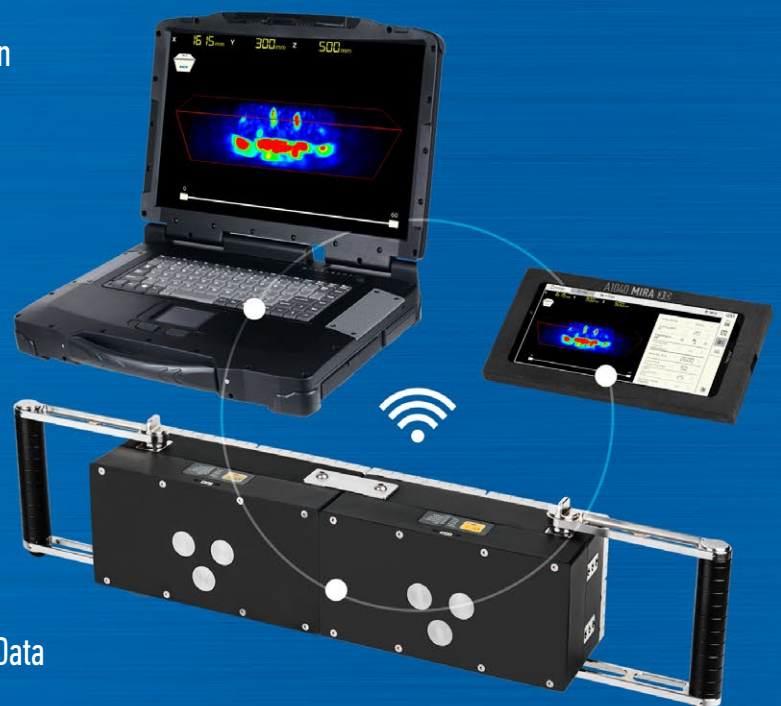
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A1040 MIRA 3D

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 |