A1220

MONOLITH 3D

MULTI-FEATURED ULTRASONIC CONCRETE TESTING INSTRUMENT

- Pulse-echo & through-transmission data acquisition mode
- Cross-functional instrument for multiple applications
  - Thickness gauge
  - Flaw detector
  - 3D-tomograph
  - Pulse velocity tester
- New generation of wear-proof DPC transducers
- Integral assessment using 3D imaging by INTROVIEW® software
### Specification:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Measuring range</td>
<td>0 to 40 inches*</td>
</tr>
<tr>
<td>Time of continuous operation</td>
<td>≥ 8 hours**</td>
</tr>
<tr>
<td>Analogue band width of electronic unit</td>
<td>10 to 100 KHz</td>
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<tr>
<td>Analogue band width of DPC transducers</td>
<td>10 to 100 KHz</td>
</tr>
<tr>
<td>Nominal transducer frequency</td>
<td>50 KHz</td>
</tr>
<tr>
<td>Number of transducers in antenna</td>
<td>24 (antenna array M2502)</td>
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</table>
| Further optional transducers for Ultrasonic Pulse velocity testing | S1802 (single DPC shear wave probe)  
S1803 (single DPC longitudinal wave probe)  
M2102 (DPC Array shear wave probe)  
M2103 (DPC Array longitudinal wave probe) |

* Material & application dependent  ** Operation mode dependent

### Special Features:

- Couplant-free UT measurement on rough / uneven surfaces
- 3D data collection and processing in MAP-mode
- Extraordinary thru-transmission range of up to 4 meters
- Compatibility with other low frequency transducers
- USB interface for inspection data transfer

### 3D Software INTROVIEW®:

- **3D-View modes:**
  - ISO-Surface
  - Texture Mapping
  - Maximum Intensity Projection
- **2D-View modes:**
  - Panorama B-, C-, D-Scan
  - Cutting plane / gated volume
- Compatibility with other ACS Instruments (A1220 MONOLITH, A1040 MIRA)

### Delivery Kit:

- A1220 MONOLITH electronic unit
- Power adapter for AC mains 220/15V
- 220V/15V Power supply unit
- Cable USB A - Micro B
- Double cable LEMO-LEMO 47 inches
- Antenna array M2502
- 3D Software INTROVIEW®
- Hard shell carry case