



UNIVERSE CRACK MICROSCOPE AZA1153

The AZA1153 Crack Microscope is a high-accuracy, portable inspection instrument designed for precise measurement of surface crack widths in concrete, masonry, metals, and other structural materials. Engineered for field and laboratory applications, it combines optical magnification with a calibrated reticle to deliver reliable and repeatable measurements of even the finest cracks. With up to 40× magnification and the ability to measure cracks as small as 0.02 mm, the AZA1153 is an essential tool for civil engineers, inspectors, and forensic analysts involved in structural diagnostics and condition assessment.



Key Applications

- Measurement of hairline cracks in concrete beams, slabs, and columns
- Crack monitoring in masonry walls and pavements
- Structural fatigue assessment in metal components
- Non-destructive testing (NDT) and quality control inspections
- Forensic analysis of damaged structures
- Long-term crack propagation studies

Compliance & Standards

Designed in line with recognized practices:

- ASTM C823 – Examination and Sampling of Hardened Concrete



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TECHNICAL SPECIFICATIONS

| Parameter | Specification |
|-------------------|-----------------------------------|
| Model | AZA1153 |
| Product Type | Portable Crack Microscope |
| Magnification | 40× (Optional: 30× / 60×) |
| Measurement Range | 0.02 mm – 2.00 mm |
| Scale Type | Built-in Calibrated Reticle |
| Light Source | Integrated LED (Battery Powered) |
| Housing Material | ABS (Impact Resistant) |
| Applications | Concrete, Masonry, Metal Surfaces |
| Standards | ASTM C823 |
| Dimensions | Approx. 160 × 40 × 40 mm |
| Weight | Approx. 180 g |

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