

## MIT-SCAN-T2 – TECHNICAL SPECIFICATIONS

|                                |  |
|--------------------------------|--|
| <b>Measurement range</b>       | 0 to 0.5 m (0 to 20 in) depending on the type of reflector   |
| <b>Accuracy</b>                | ± (0.5% of measurement value + 1 mm (3/64 in))   |
| <b>Resolution (on a scale)</b> | 0.1 cm (0.04 in)   |
| <b>Asphalt temperature</b>     | up to 110 °C (230 °F)  |
| <b>Ambient temperature</b>     | -10 °C to +50 °C (14 °F to 122 °F)   |
| <b>Memory capacity</b>         | 16,000 test results  |
| <b>PC connection</b>           | PC interface, data transfer to MS office/ Excel or an accounting software*   |
| <b>Power supply</b>            | NiMH battery 12V/2Ah   |
| <b>Battery life</b>            | 8 hours or approx. 1,000 measurements  |
| <b>Charge time</b>             | 1.5 hours  |
| <b>Dimensions</b>              | Device: 42 cm x 139 cm x 19 cm (17 in x 55 in x 8 in),<br>Carrying case: 87 cm x 45 cm x 26 cm (35 in x 18 in x 11 in) |
| <b>Weight</b>                  | Device: 3.0 kg net (6.6 lbs), Device kit with accessories: 12.6 kg (27.8 lbs)<br>Total: 15.6 kg (34.4 lbs)             |

\*ElmaDick\*

## MIT CIRCULAR PLATES – TECHNICAL SPECIFICATIONS

Robust and compact reflectors for thickness measurement of road pavement layers

Electromagnetic eddy current methods for determining layer thickness of road pavements require that reflectors are installed as an antipole. Aluminium reflector plates and foils are used for measuring thickness of asphalt layers. For measuring concrete layer thickness only high strength steel plates should be used. During road construction the reflectors are installed beneath the layer that is to be measured. We recommend the following sizes for standard use. Please notice also our new reflector types for measurements up to 50 cm:

| Name                   | Used for | App. Area                      | Vertical cover Min.* | Measuring area |
|------------------------|----------|--------------------------------|----------------------|----------------|
| AL RO 07               | Asphalt  | Surface course                 | 15 mm                | 15 - 120 mm    |
| AL RO 12               | Asphalt  | Surface course + binder course | 40 mm                | 15 - 180 mm    |
| AL RO 30               | Asphalt  | Base                           | 120 mm               | 40 - 350 mm    |
| <b>NEW</b> AL □ 30x100 | Asphalt  | Base                           | 200 mm               | 500 mm         |
| ST RO 07               | Concrete | upper concrete                 | 15 mm                | 15 - 120 mm    |
| ST RO 12               | Concrete | upper concrete                 | 40 mm                | 15 - 180 mm    |
| ST RO 30               | Concrete | subconcrete                    | 120 mm               | 40 - 350 mm    |
| <b>NEW</b> ST □ 14     | Concrete | subconcrete                    | 200 mm               | 500 mm         |

**Description:**

Material of reflector: AL (aluminium), ST (steel) | Type of reflector: RO (Circular plate)  
Diameter: 07 (7 cm), 12 (12 cm), 30 (30 cm)  
Type of reflector: ST □ (Square) | Size: 14" x 14"  
Type of reflector: AL □ (Rectangle) | Size: 30 x 100 cm

\*Vertical cover minimum means material thickness until road surface



## MIT-SCAN-T2

Measuring device to accurately and non-destructively determine the thickness of asphalt or concrete pavement during construction

### MIT Mess- und Prüftechnik GmbH

Gostritzer Straße 61-63 · D-01217 Dresden, Germany

Telephone +49 (0) 351 871 81 25

Telefax +49 (0) 351 871 81 27

www.mit-dresden.com

sales@mit-dresden.com



## MIT-SCAN-T2 FEATURES AT A GLANCE

- provides immediate and accurate readings with high precision within the measurement range of 0 to 20 inches without coring
- the reflector can be quickly located
- immediate detection of metals nearby the reflectors that may interfere with the measurements
- the reflector is only roughly passed over for measurements, centering the reflector is unnecessary, sources of error are thus avoided
- allows collecting of quality characteristics of construction material (automatic on-site calibration)
- applicable for hot asphalt, wet pavements, milled surfaces and bridges
- only gauge on the market that provides on-site analysis including reflector evaluation
- device works together with all types of reflectors available on the market

## MIT-SCAN-T2

Measuring device to accurately and non-destructively determine the thickness of asphalt or concrete pavement

**Accurate thickness measurements for road pavement layers for highway, municipal and airport pavements is critical to ensure compliance with the thickness design and the longevity of pavement. MIT-SCAN-T2 is an innovative measuring device that can non-destructively and accurately measure the thickness of pavement layers during construction without the requirement for coring.**

### Efficient and user friendly

The MIT-SCAN-T2 has been designed as a simple and easy to use device. Using only one hand, the operator uses the device to locate reflectors quickly. The test can be done in a very short time. The device has long battery life.

### Accurate and cost-effective

Provides immediate and accurate readings with high precision within the measurement range of 0 to 20 inches without coring. The method does not load the road. Low cost per test (economic factor 10 in comparison to the coring method). Using the MIT-SCAN-T2 contractors are able to measure directly behind the paver on hot asphalt to ensure the quality during road construction process.

For more information please visit our website:  
[www.mit-dresden.com](http://www.mit-dresden.com)



### Clear user interface

Full graphic display, user friendly and with intuitive menu prompting.

### Comfortable use

Quick ready-to-use assembly and disassembly of the device, secure storage in sturdy case for transportation.

## STANDARDS

- 73/23/EEC: Low Voltage Directive
- 89/336/EEC: EMC Directive on electromagnetic compatibility
- European Standard EN 61010
- European Standards EN 50081, EN 50082, EN 5011
- IEC Standard IEC 100-4