

# MIT-SCAN-T3

Precise and nondestructive measurement of asphalt and concrete layer thickness in compliance with TP D-StB 12

THE SMART PRECISION



# MIT-SCAN-T3

## Precise and nondestructive measurement of asphalt and concrete layer thickness in compliance with TP D-StB 12

The measuring device MIT-SCAN-T3 was developed for nondestructive and accurate thickness measurements of asphalt and concrete pavements. Assessments of unbound base courses (frost blanket layer and gravel base layer) are also possible.

### AREAS OF APPLICATION

- ✓ Quality assurance self-monitoring
- ✓ Contracting compliance audits
- ✓ Site acceptance testing
- ✓ Road wear testing
- ✓ Warranty audits
- ✓ Road maintainability audits
- ✓ Road rehabilitation audits

### ADVANTAGES



#### Precise

- very high measurement precision:  $\pm$  (0.5% of measured value + 1 mm)
- high resolution (650 data points per measurement)
- exact and reproducible measurement results



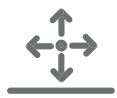
#### Rapid and efficient

- immediately ready for use
- no onsite calibration necessary
- fast reflector location (search mode)
- no complex search of reflector center
- **automatic plate detection (reflector)** NEW
- measurement incl. analysis in one minute (measuring mode)



#### Nondestructive

- simple measurement run over the pavement
- no requirement for pavement core drilling



#### Flexible

- robust and compact hand-held instrument
- safe transport in high-quality carrying case (car suitable)
- thickness measurement on hot asphalt, milled surfaces and concrete
- measurement even on moist and wet layers
- reflectors equivalent to German STLK



#### Cost-effective

- durable device with a long service life
- suited for construction environments
- self-inspection during construction for quality assurance
- effective control of paving deviations
- inspections of large stretches within short time



#### Long-lasting

- no damage to pavement
- mindful of nature and the environment
- emission free

# MIT-SCAN-T3

Robust and compact hand-held device for precise and rapid onsite inspections of road pavements



intuitive and user-friendly operation



ergonomical and lightweight, GPS module, powerful battery



automatic plate detection, user-friendly menu, backlit display



variably adjustable telescopic handle



robust sensor unit for use also on hot asphalt, milled surfaces and in wet weather



PRECISION  
  
MADE IN  
GERMANY

## ACCESSORIES

The following accessories are available for the layer thickness measuring device MIT-SCAN-T3



**Wheeled spacer**  
for functionality testing  
according to TP D-StB 12



**USB flash drive**  
for data transfer to PC



**Headphones**  
acoustic signal output



**Reflectors**  
compact and robust  
reflectors for use in  
asphalt and concrete



**Second battery**  
battery pack for replacement  
on construction site



**Carrying case**  
high-quality and sturdy,  
automobile suitable

## SOFTWARE

MIT's project software is used for further processing of data at your PC.



### The software has the following functions:

- Preparation of measurement site plans at your PC (designation of construction site, kilometrage, layer)
- Automatic processing of measured data from both two-layered and three-layered road constructions
- Correction of construction project specifications
- Data transfer via USB storage device
- Backup and archiving of measurement data on PC
- Control of measurement points using GPS data
- Generation of form sheets acc. to TP D-StB 12 for selected data sets



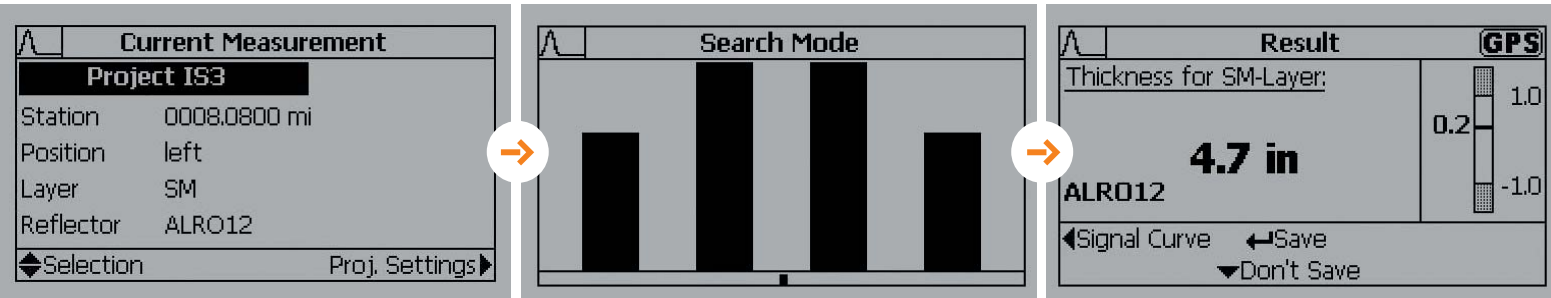
# MEASUREMENT PROCEDURE

Precise nondestructive determination of layer thickness in concrete and asphalt

Measurement mode

Search mode

Result display



Start the device

1

## Analysis

See measurement result onsite within a few seconds

5



2 minutes

2

## Select menu

Choose measurement menu and select reflector type and current project

4

## Take measurement

Run the device over the test stretch along a measurement path of approx. 1.5 meters length

3

## Locate reflectors

Locate the installed reflector with wide movements from side-to-side over the road surface

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## MIT-SCAN-T3 SPECIFICATIONS

<b>Measurement range</b>	15 - 500 mm based on reflector type
<b>Measurement accuracy</b>	± (0.5% of measured value + 1 mm)
<b>Resolution</b>	1 mm
<b>Asphalt temperature</b>	up to 110 °C
<b>Operating temperature</b>	-10 °C to +50 °C
<b>Memory capacity</b>	up to 5000 data sets
<b>PC connectivity</b>	PC interface, transfer to MS office or accounting program
<b>Power supply</b>	NiMH battery 12V/2Ah
<b>Battery life</b>	8 hours or approx. 1,000 measurements
<b>Recharge time</b>	1.5 hours
<b>Dimensions</b>	Device: 40 cm x 26 cm / height variably adjustable up to 145 cm Carrying case: 85 cm x 50 cm x 34 cm
<b>Weight</b>	Net weight: 4 kg (device) Gross weight: 18 kg (device, carrying case and accessories)