

The Safe Way of Measuring in Explosive Atmospheres

## Laser Scanner IMAGER 5006EX



### The Safe Way of Measuring in Explosive Atmospheres

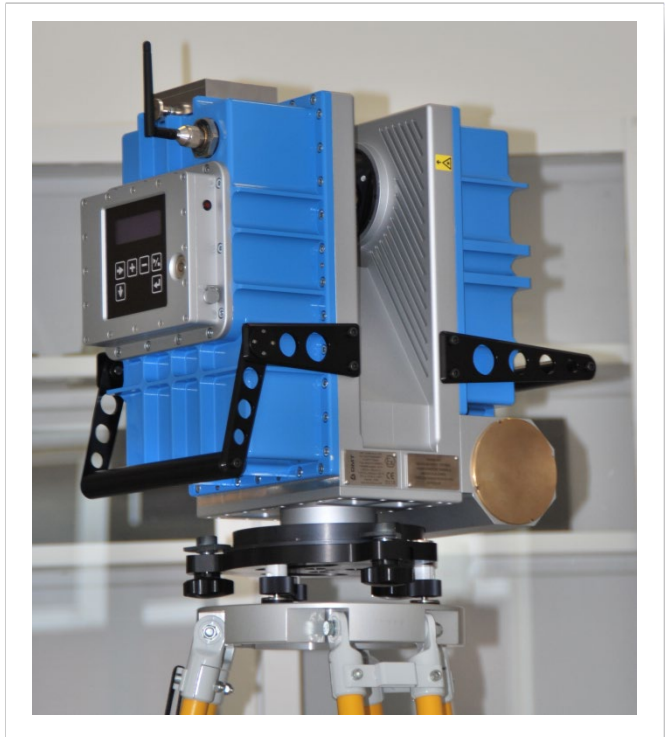
The **IMAGER 5006EX<sup>1</sup>** revolutionizes measuring in explosive atmospheres. **DMT** offers a wide range of services with **IMAGER 5006EX**, especially in underground mining and sewerage systems with numerous advantages that not only increase safety and productivity but also reduce costs.

#### Tasks

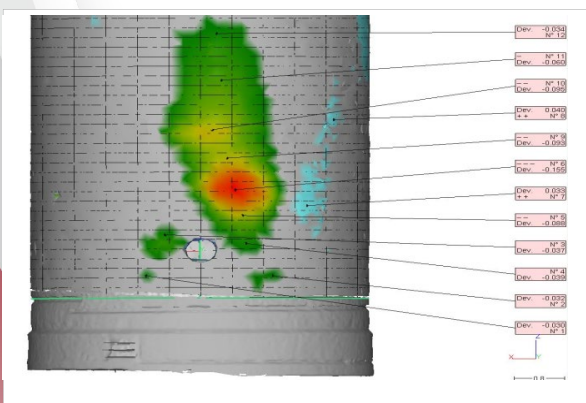
- As-built documentation
- Safety inspections
- Accident and damage analysis
- Deformation analysis
- Acceptance inspection of contractual work
- Volume calculation and variance comparison
- Bottleneck analysis
- Geological rock face survey

<sup>1</sup> certified by ATEX for Category M2 in Group I (mining) and Category 2 in Group II B (other industries)

IMAGER 5006EX



Deformation monitoring of a power plant flue



Point cloud of a pumping station in an underground coal mine



Laser Measuring System		
Ambiguity interval <sup>1)</sup>	79 m	
Min. range <sup>2)</sup>	0,4 m	
Resolution range	0,1 mm	
Range drift over temp (-10°C – +45°C)	Negligible due to internal reference	
Optical Transceiver		
Laser	Visible	
Laser safety class	3R (EN 60825-1)	
Deflection Unit		
Field of view vertical	310°	
Field of view horizontal	360°	
Resolution vertical	0,0018°	
Resolution horizontal	0,0018°	
Accuracy vertical	± 0,007°rms	
Accuracy horizontal	± 0,007°rms	
Max. scanning speed vertical	≤ 50 rps	
Typ. scanning speed vertical	25 rps	
Resolution		
	Pixel / 360° (vertical, horizontal)	Scanning time / 360°
preview	1.250	25 sec
middle	5.000	1 min 40 sec
high	10.000	3 min 22 sec
super high	20.000	6 min 44 sec
ultra high	40.000	26 min 40 sec
max. resolution for selections	100.000	depends on selection

**DMT GmbH & Co. KG**  
Am TÜV 1  
45307 Essen, Germany

Phone +49 201 172-1441  
Fax +49 201 172-1693  
info.imager5006ex@dm-tgroup.com  
www.dmt-group.com



TÜV NORD GROUP

Miscellaneous	
Data interface	Ethernet
Data storage	Internal HDD
Communication interface	WLAN / Ethernet
Battery life time Changeable battery pack	typically 1,0 h
Dimensions and Weights	
Scanner (WxDxH) / weight	250 mm x 414 mm x 395 mm / 30,6 kg
Bottom of scanner to horizontal axis	343 mm
Tripod Height	Approx. 800 mm – 1.300 mm / 12 kg
Weight Diameter	Approx. 285 mm

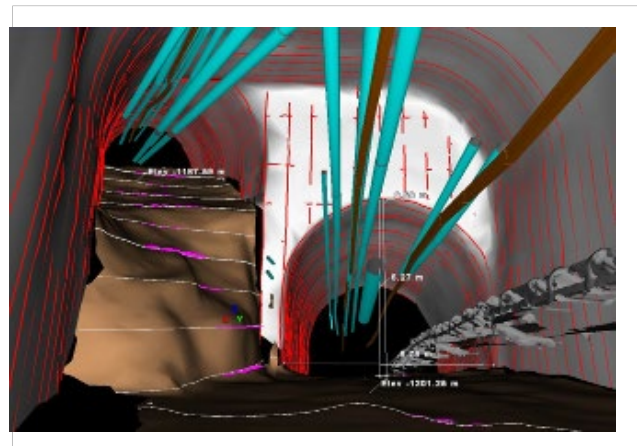
Specification may change without notice.

<sup>1)</sup> If the distance to an object exceeds the ambiguity interval, the measured distance starts again at zero meters. The values of measured distances are periodic with the ambiguity interval.

<sup>2)</sup> Due to technical reasons, the distance measurement is calibrated until 0,4 m. For distances closer than 0,4 m there might occur failures in the distance measurement.

<sup>3)</sup> Datarate: 127.000 pxl/sec, raw data, in high power mode

As-built documentation of underground roadway



Disposal information:  
Our products are subject to the WEEE directive. DMT has committed itself to take back all electrical and electronic components sold and to dispose of them professionally.  
Please contact: products@dm-tgroup.com

WEEE Registration Number: DE 25917380

**Earth. Insight. Values.**