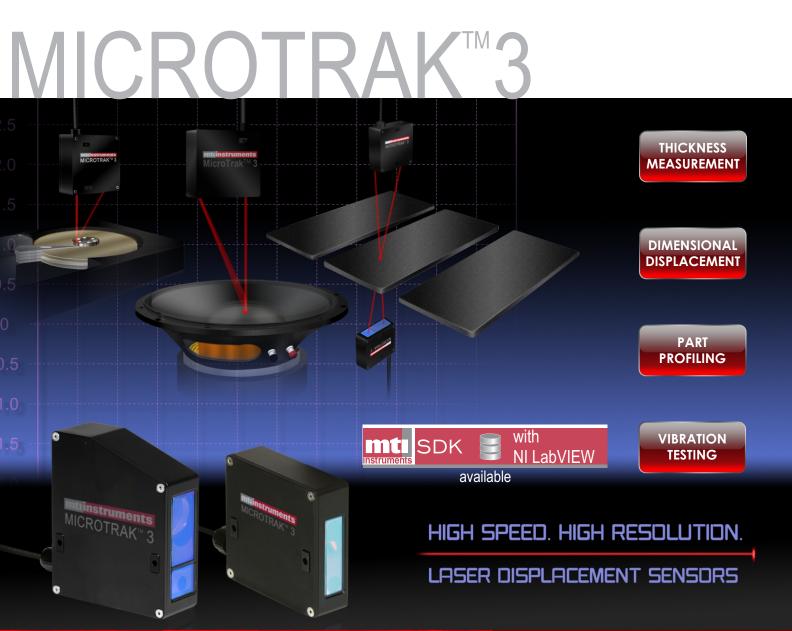
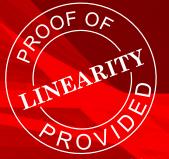


A worldwide leader in precision measurement solutions



Accurate and repeatable measurements from highly reflective to dull surfaces

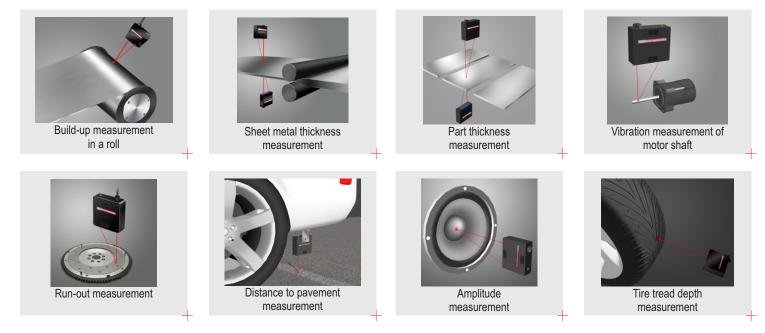


with every system shipped!

m3_print.cdr 06122014



Unmatched Features for Different Types of Applications



Microtrak[™] 3 - High Quality, Compact and Reliable Non-contact Measurement

The Microtrak[™] 3 laser displacement sensor head is the ideal solution for quality and process control applications. Using the latest CMOS sensor technology, the Microtrak[™] 3 precisely monitors the intensity of light received on a pixel array and optimizes itself to the sensed conditions. This makes Microtrak[™] 3 ideal for even for the most difficult measurement challenges such as, black, colored, metallic, wood, ceramic, steel, or plastic surfaces.

Key Features

 No Controller Needed - With the built-in 5-color position indicator, there is no need for an external controller to determine the laser mounting location and attain the precise distance placement.



- Dual Output Analog (0-10V) and Digital (RS-485 and USB).
- Cut-Time Feature Ignore holes and cutouts with its bridging function.
- •Included Microtrak 3 Basic Software Intuitive and straight forward buttons makes configuring and acquiring data easy.
- Specular and Glass Models Available Accurate measurement for shiny surfaces

Simple Software Interface

Bundled with the Microtrak[™] 3 Basic Support Software, users are presented with graphical displays of displacement signal. Acquired data can also be stored as a widely supported (.csv) format for further analysis. Compatible with Windows[®] XP, Vista, Windows[®] 7 Windows[®] 8 and Windows[®] 10.

Consultations (and Restores (Restoring (Mg)	Displacement Monitor	Fermet
2.5		
-		UCREAN
2.0		
1.5		[10] B.H.
1.0		
A /		
0.5		10 Tes
. \ /		
• \ /		/
0	V V V V	
		Explorate (red)
1.0		
1.5		
2.0		
25 1 2	3 4 5 6 7 8	9 10
	Time (seconds)	

8 Highly Accurate Models to Choose From

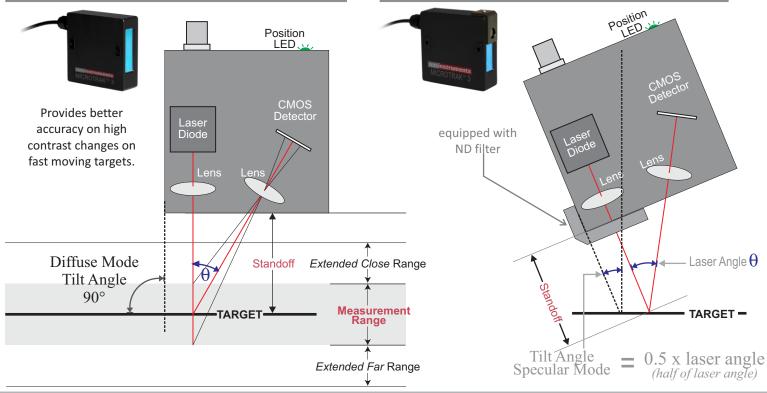
Model		LTS							
woder		25-02	25-04	50-10	50-20	120-20	120-40	200-100	300-200
Product #		8000-6471	8000-6472	8000-6473	8000-6474	8000-6475	8000-6476	8000-6477	8000-6478
Max. Linearity Error	μm	0.6	1.2	3.0	6.	.0	12.0	30.0	60.0
Extended Range ¹	mm	2.5	5.0	12.5	25	5.0	50.0	125.0	250.0
Standoff	mm	2	5	5	0	1	20	200	300
Available in Specular Mode (Laser head with ND filter) -specify when ordering									
Extended Close Range	mm	23.75	22.50	43.75	37.50	107.50	95.00	137.50	175.00
Close Range	mm	24	23	45	40	110	100	150	200
Range	mm	2	4	10	2	0	40	100	200
Extended Far Range	mm	26.25	27.50	56.25	62.50	132.50	145.00	262.50	425.00
Far Range	mm	26	27	55	60	130	140	250	400
Noise ²	μm RMS	0.325	0.650	1.625	3.2	250	6.500	16.500	32.500
Analog Out Scale Factor	µm/mV	0.250	0.500	1.250	2.5	500	5.000	12.500	25.000
Digital Resolution ³	μm	0.038	0.076	0.191	0.382	0.382	0.763	1.907	3.815
Laser Angle	θ	45°	45°	30°	30°	20°	20°	12°	8°
Spot Size ⁴	μm	30		36		100		130	
[1] Linearity guaranteed at	[3] Minimum Digital Resolution = FSO/65535								

[1] Linearity guaranteed at standard range
[2] ±White photo paper at 500Hz

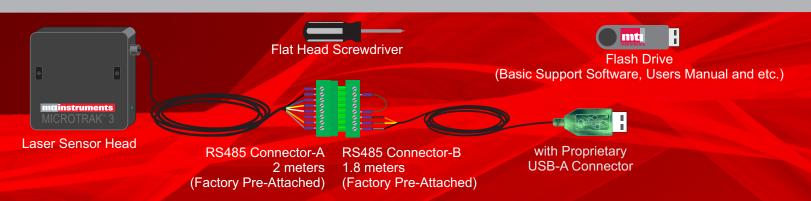
[3] Minimum Digital Resolution = FSO/655
[4] Major diameter measured at standoff

Specular Mode (recommended for shiny surfaces)

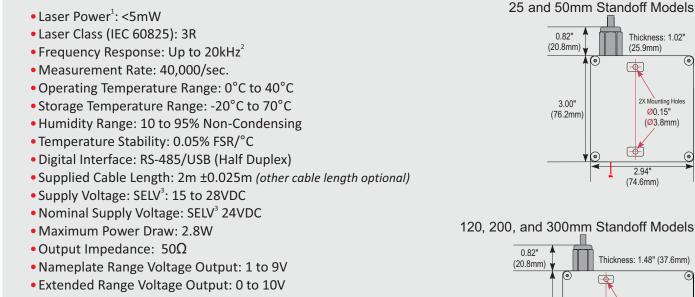
Diffuse Mode



What's in the box?



Technical Specifications



- Software Selectable Filters: 0.1Hz, 1Hz, 25Hz, 200Hz, 1kHz, 4kHz, 20kHz
- Nominal Laser Wavelength⁴: 670nm

^[1]Laser power is based on standard products.

- ^[2]Measurement based on analog output
- ^[3]Safety Extra Low Voltage

^[4]Nominal laser wavelength is based on standard products.

Optional Accessories

FS-5 Laser Head Mount and Positioner P/N: 8000-6725



FS6-1 Right Angle Bracket (for 25/50 laser head models) P/N: 8000-6431 FS6-2 Right Angle Bracket (for 120/200/300 laser head models) P/N: 8000-6432



Product Number			
2075-0066			
2100-2085			
2100-2086			
8000-6923-001			
8000-6923-002			
8000-6923-005			

Includes power cord and

Universal Input Power Supply

(DIN Mount) Assembly

P/N: 8000-6925

3.50" (88.9mm)

24VDC harness (specify country for correct line cord) BNC to Ferrule Converter P/N: 8000-6782

2X Mounting Holes Ø0.15

(Ø3.8mm)

4.20"

(106.7mm)

6

6



PanelPilot Meter To bundle a programmed panel meter with your purchase, contact MTI Instruments for support and pricing.

> (See App Note) P/N: 8000-6333





MTI Instruments, Inc. 325 Washington Avenue Extension Albany, NY 12205-5505 PH: +1-518-218-2550 OR USA TOLL FREE: 1-800-342-2203 FAX: +1- 518-218-2506 EMAIL: sales@mtiinstruments.com www.mtiinstruments.com

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