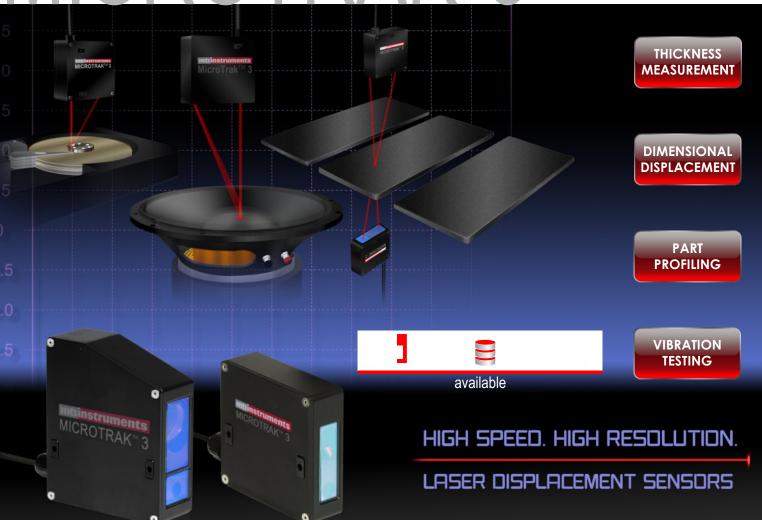


A worldwide leader in precision measurement solutions

MICROTRAK[™]3



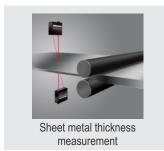
Accurate and repeatable measurements from

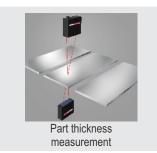
highly reflective to dull surfaces



with every system shipped!





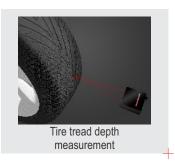












The Microtrak[™] 3 laser displacement sensor head is the ideal solution for quality and process control applications. Using the latest CMOS sensor technology, the Microtrak[™] 3 precisely monitors the intensity of light received on a pixel array and optimizes itself to the sensed conditions. This makes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

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.





Software Development Kit Available

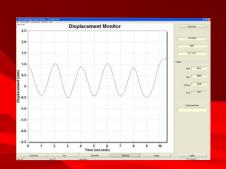
Dual Output - Analog (0-10V) and Digital (RS-485 and USB). Cut-Time Feature - Ignore holes and cutouts with its bridging function.

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

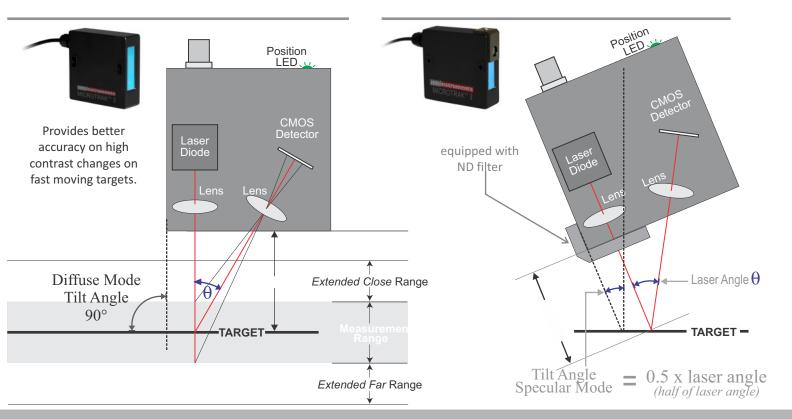
Simple Software Interface

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 and Windows® 8.

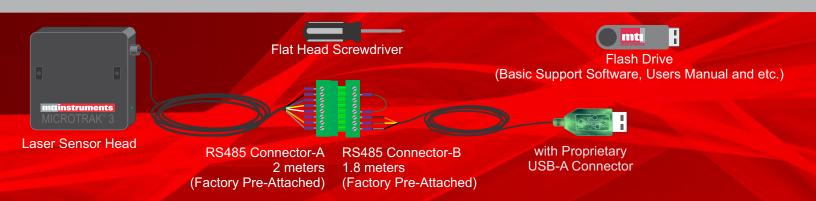


Model		LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
Model		25-02	25-04	50-10	50-20	120-20	120-40	200-100	300-200
Max. Linearity Efror	μm	0.6	1.2	3.0	6	.0	12.0	30.0	60.0
Extended Range ¹	mm	2.5	5.0	12.5	25	5.0	50.0	125.0	250.0
Standoff	mm	2	5	5	0	1	20	200	300
Extended Close Range	mm	23.75	22.50	43.75	37.50	107.50	95.00	137.50	175.00
Close Range	mm	24	23	45	40	110	100	150	200
Range	mm	2	4	10	2	20	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 standard range [2] ±White photo paper at 500Hz [3] Minimum Digital Resolution = FSO/65535 [4] Major diameter measured at standoff



What's in the box?



Laser Power¹: <5mW

• Laser Class (IEC 60825): 3R

Frequency Response: Up to 20kHz²

• Measurement Rate: 40,000/sec.

• Operating Temperature Range: 0°C to 40°C

Storage Temperature Range: -20°C to 70°C

• Humidity Range: 10 to 95% Non-Condensing

• Temperature Stability: 0.05% FSR/°C

Digital Interface: RS-485/USB (Half Duplex)

• Supplied Cable Length: 2m ±0.025m (other cable length optional)

• Supply Voltage: SELV³: 15 to 28VDC

Nominal Supply Voltage: SELV³ 24VDC

• Maximum Power Draw: 2.8W

ullet Output Impedance: 50Ω

Nameplate Range Voltage Output: 1 to 9V

Extended Range Voltage Output: 0 to 10V

• Software Selectable Filters: 0.1Hz, 1Hz, 25Hz, 200Hz, 1kHz, 4kHz, 20kHz

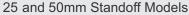
Nominal Laser Wavelength⁴: 670nm

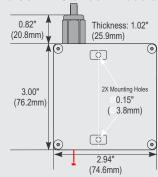
^[1]Laser power is based on standard products.

[2] Measurement based on analog output

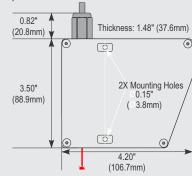
[3] Safety Extra Low Voltage

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





120, 200, and 300mm Standoff Models



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



Universal Input Power Supply (DIN Mount) Assembly

P/N: 8000-6925



Includes power cord and 24VDC harness (specify country for correct line cord)

Other Accessories	Product Number			
SDK with LabVIEW included	2075-0066			
Replacement Connector-A	2100-2085			
Replacement Connector-B	2100-2086			
Extension Cable 1m	8000-6923-001			
Extension Cable 2m	8000-6923-002			
Extension Cable 5m	8000-6923-005			

BNC to Ferrule Converter P/N: 8000-6782



Digital Display P/N: 8000-6227







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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