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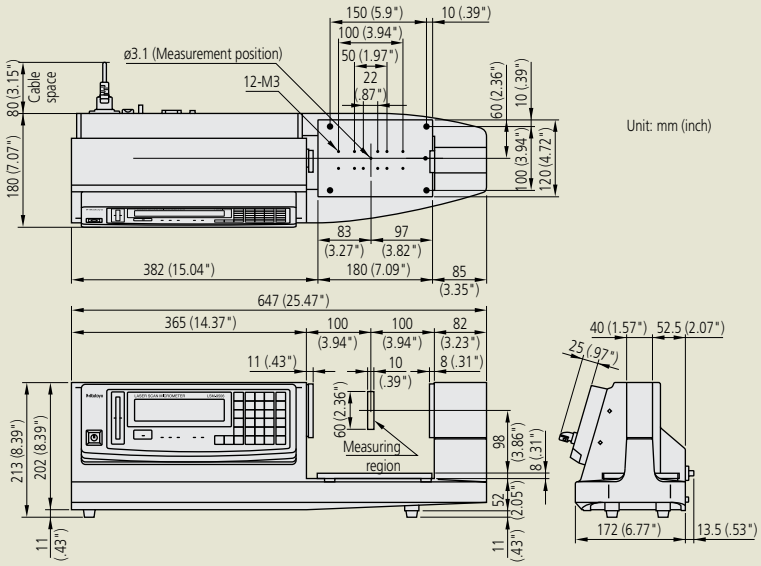
LSM-9506

Benchtop with Display Unit



- **With a design that integrates the display section and measuring section into one unit, this instrument is best suited for making benchtop measurements in an inspection room.**
- **A statistical calculation function is provided.**
- **Standard RS-232C and SPC output interfaces are provided as standard.**

Dimensions



SPECIFICATIONS

Model		LSM-9506
Order No. (Order no. suffix denotes the AC power cord type equipped.)	120V AC	**544-116-1A**
Type		inch/mm
Measuring range		.02" - 2.36"/0.5 - 60mm
Resolution (selectable)		.000002" - .005"/0.00005 - 0.1mm
Repeatability*1		±0.6µm (±24µinch)
Linearity at 20°C*2		±2.5µm (±100µinch)
Positional error*3		In the optical axis direction: ±2.5µm (±100µinch) In the scanning direction: ±(2.0+L/10µm) (±(.00008+L/10000)")
Measuring region*4		10 x 60mm (.4" x 2.36")
Scanning rate		1600 scans/s
Laser wavelength		650nm, Visible*5
Laser scanning speed		226m/s (8900"/s)
Power supply		120V AC ±10%,60Hz, 40VA
Data output		Via RS-232C interface, SPC (Digimatic) output port
Functions		(See page 30.)
Operating temperature		0°C - 45°C
Operating humidity		35 - 85% RH (with no condensation)
Mass		13kg (28.6lbs.)

OPTIONAL ACCESSORIES

For sending data to Quicktool, SPC Software, Excel, or a PLC, see page 34.

02AGD170
Calibration gage set (ø1.0mm, ø60mm)



02AGD680 Adjustable workstage
02AGD580 Center support*
02AGD590 Adjustable V-block*
936937 SPC output cable (1m)
937179T Footswitch
*Use with an adjustable workstage.

*1: Determined by the value for ±2σ at the measurement interval of 0.32 sec.
*2: At the center of the measuring region.
*3: An error due to workpiece shift either in the optical axis direction or in the scanning direction. L= Distance between the center of workpiece and the center of optical axis (in mm or inches).
*4: The area given by "measuring range on the optical axis" x "measuring range in the scanning direction."
*5: FDA Class II (**544-116-1A**) semiconductor laser for scanning (Maximum power: 1.0mW)

Optional Accessories

Calibration Gage Sets

•The calibration gage sets are made up of precision disks, cylinders or wires used for calibrating Laser Scan Micrometers. Each gage that may be measured in alternate positions is marked at the position where the calibration measurement was made.



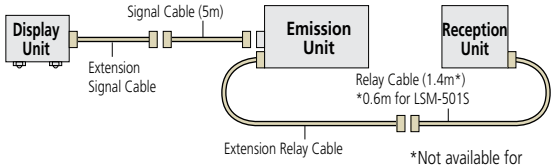
Order No.	Application	Components	
02AGD110	LSM-500S	ø0.1mm gage (**958200**) ø2mm gage (**958202**)	Gage stand (**02AGD111**) Set case (**958203**)
02AGD120	LSM-501S	ø0.1mm gage (**958200**) ø10mm gage (**229317**)	Gage stand (**02AGD121**) Set case (**958203**)
02AGD180	LSM-6902H	ø1mm gage (**02AGD920**) ø25mm gage (**02AGD963**)	
02AGD130	LSM-503S	ø1mm gage (**02AGD920**) ø30mm gage (**02AGD961**)	Gage stand (**02AGD131**) Set case (**02AGD980**)
02AGD140	LSM-506S	ø1mm gage (**02AGD920**) ø60mm gage (**02AGD962**)	Gage stand (**02AGD141**) Set case (**02AGD980**)
02AGD150	LSM-512S	ø20mm gage (**229730**) ø120mm gage (**234072**)	Gage stand (**02AGD151**) Set case (**02AGD990**)
02AGM300	LSM-516S	ø20mm gage (**229730**) ø160mm gage (**02AGM303**)	Gage stand (**02AGM320**) Set case (**02AGM310**)
02AGD170	LSM-9506	ø1mm gage (**02AGD920**) ø60mm gage (**02AGD962**)	Gage stand (**02AGD171**) Set case (**02AGD970**)

Extension Signal Cables

•Used to extend the supplied signal cable if the measuring unit and display unit need to be placed further apart from one another.

Extension Relay Cables*

•Used to extend the supplied relay cable if the emission unit and reception unit need to be placed further apart from one another.



*Not available for

Extension signal cables

Order No.	Cable length
02AGN780A	5m
02AGN780B	10m
02AGN780C	15m
02AGN780D	20m

Extension relay cables

Order No.	Cable length
02AGC150A	1m
02AGC150B	3m
02AGC150C	5m

Note 1: The maximum length of the **LSM-500S/501S** signal cable is 20m, and that of the relay cable is 2m. The maximum length of the signal and relay cables of models other than those mentioned above should be 30m or less and 5m or less, respectively.
Note 2: The total length of signal and relay cables should not be more than 32m.

Workstage

•Aids shaft measurement by providing a V-block mounting and an up/down adjustment mechanism.

Order No.	Application
02AGD270	LSM-501S LSM-503S LSM-6902H



Wire Guiding Pulleys

•This jig is for guiding thin filaments, such as fine magnet wire or optical fiber, so that a stable measurement of the outside diameter can be made.



Order No.	Application	Maximum measuring dia.
02AGD200	LSM-500S	1.6mm (.063")
02AGD210	LSM-501S	2mm (.079")

Note: Use the calibration gage set (**02AGD110**) for both types of wire guiding pulley.

Air-Screen System

•If using your LSM in a smoky or dusty environment, an air-screen system consisting of two covers per unit and a central air cleaner/regulator can be used to help prevent the emission/reception windows from being soiled.

Air-screen covers

Order No.	Application	
02AGD220	LSM-500S	6 pcs.*
02AGD230	LSM-501S	6 pcs.*
02AGD240	LSM-503S	3 pcs.*
02AGD250	LSM-506S	1 pc.*
02AGD260	LSM-512S	1 pc.*

* No. of pcs. concurrently usable with one air cleaner/regulator.



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