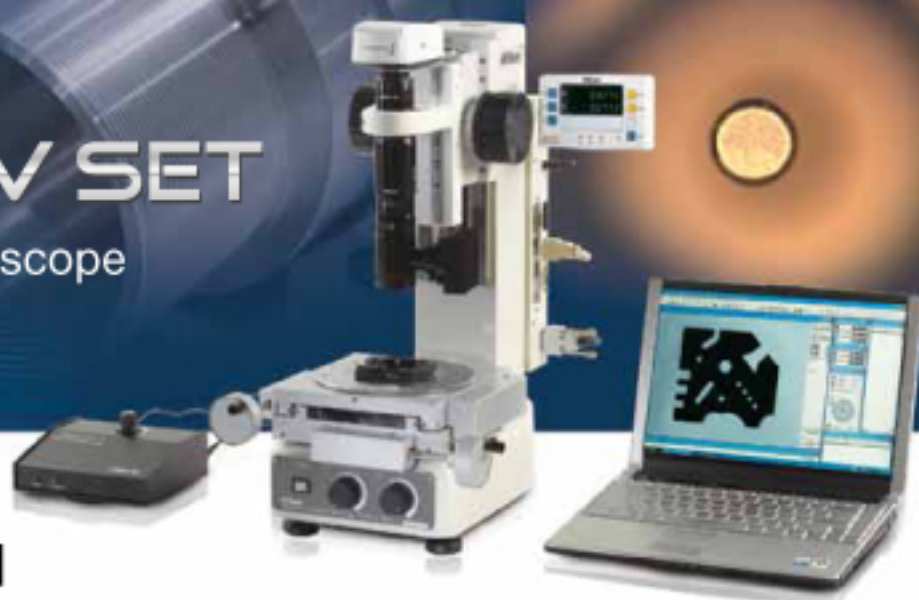




# MM-200 V SET

Measuring Microscope



## Precise, compact and easy-to-use measuring microscope for dimensioning and tolerancing.

Nikon's MM-200 V Set Measuring Microscope is compact and lightweight with an affordable price for all who require precision and accuracy for measuring a variety of metal, plastic, and electronic parts in all industries; especially automotive and electronics. Configured as a low-cost alternative to manual vision systems, this versatile measuring package includes a 1.3 megapixel color digital camera and advanced E-MAX data processing software.

### A Low Cost Automated Vision System

Why settle for a manual system? The MM-200 is compact, completely integrated, and remarkably easy-to-use. It can be operated from a desktop or laptop PC running Windows XP or Vista (32-bit), with 2 GB RAM. With a price starting at \$17K, this measuring system is as affordable as it is powerful.



### 12x Zoom Lens System Provides Crystal-clear Metal, Plastic and Electronic Part Inspection

The MM-200's Navitar lens system includes LED BrightLight II illumination, which provides a 0.58x to 7.0x magnification. The reflected light illuminator is built-in and has a small but efficient LED lamp house that attaches directly to the lens assembly for on-axis reflected light illumination.

### Luminera Infinity Digital Camera Offers Speed, Sensitivity and Excellent Color Reproduction

A great performer and a economical price, the Infinity 1-2c 1/2" CMOS Color Digital Camera from Luminera features 1600 x 1200 resolution and on-board processing.



### E-MAX Software Enables Advanced Measurement and Image Processing Functions

Intuitive data processing software package, providing full edge detection measurements with sub-pixel processing. Supports a wide variety of cameras.



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# Specifications

## MM-200

<b>Optical Head</b>	Navitar zoom mount arm OREDC50100 (for use with Nikon TM objectives) C-Mount Video Head
<b>Objective Lenses (use EDC50100)</b>	Standard: 3x (75.5mm), Optional: 1x (79mm), 5x (64mm), 10x (48mm)
<b>Navitar Zoom</b>	MM-200 Navitar zoom/head mount (see Navitar specifications)
<b>XYZ Stroke</b>	50mm x 50mm x 110mm
<b>Traveling Accuracy</b>	(2.5+L/50) $\mu$ m with linear error correction, (3+L/50) $\mu$ m (L= measurement length in mm)
<b>Max Loading Weight</b>	2kg for guaranteed accuracy – up to 5kg for operation
<b>Digital Readout</b>	SC2-E1 two axis: 0.01/0.1 (default) / 1/10 $\mu$ m
<b>Illuminator</b>	Standard: diascopic/episcopic white LED, Optional: ring light (white LED), fiber optic ring & gooseneck
<b>Power Source</b>	100-240V, 50-60Hz
<b>Power Consumption</b>	Max 1.8A
<b>Dimensions</b>	316 (W) x 455 (D) x 533 (H)
<b>Weight</b>	40kg

## Navitar Zoom/Head Mount

<b>Navitar</b>	Dovetail fits MM-200 (MM400 mount is also available on special order)
<b>Zoom Lens</b>	12x Zoom with 1x mini adapter and C mount, built-in click stops on zoom, 0.58x-7x, NA 0.0197-0.1, W.D. 86mm
<b>Field of View</b>	With 1/2" camera 13.79-1.14mm
<b>Resolution</b>	9.26-1.67 $\mu$ m
<b>Depth of Field</b>	1.39-0.05mm
<b>Epi-Illuminator</b>	Built-in coaxial illuminator, LED lamp house, variable transformer

## Luminera Digital Camera

<b>Image Sensor</b>	1/2" CMOS color 6.7 x 5.0mm array
<b>Effective Pixels</b>	1600 x 1200, 4.2 $\mu$ m square pixels
<b>Frame Rate</b>	20fps at 1600 x 1200 , 96fps at 640 x 480
<b>Output</b>	8 and 10-bit uncompressed USB 2.0 interface
<b>Auto Exposure White Balance</b>	Automatic or Manual
<b>Gain</b>	1 to 10x programmable
<b>Lens Mount</b>	C-Mount
<b>Dimensions</b>	3.85 (L) x 2.00 (W) x 2.75 (H) inches (weight: 300g)

## E-MAX Measuring Software

<b>Teaching Files</b>	*.NMP file (file converter provided to convert older Ver 5.3 *.TCH files to new *.NMP file)
<b>Improved Functions</b>	Video, List, Result, Graphics Window, Tan-Tan-Rad, Tan-Tan-Tan, Chart Measurement and Image Save Tools
<b>New Toolbars</b>	Result, Cad Tool, Graphic and Edit toolbars added
<b>New Camera</b>	Luminera Infinity 1-2c CMOS digital camera now supported
<b>Computer Requirement</b>	Recommended PC – Core 2 Duo 1.8GHz, Win XP SP3, 2+ GB RAM, 160MB HDD, CD or DVD drive, 4 USB 2.0, (Minimum specification - P4 3GHz, Win XP SP2, 1 GB RAM, 40GB HDD, CD or DVD drive, 4 USB 2.0

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