

# MEASURING MICROSCOPE CV-MM900™

Non contact XYZ depth measuring microscope

- Ideal microscope for measuring precision components in 2 and 3 dimensions
- Specifically designed for accurate and repeatable measurements of thickness and depth
- Measures surface profile, flatness, roughness and alignment in X,Y and Z-Axis
- Z-Axis measurement with the Precise Focusing Image Module
- Three objective lenses available 5X, 20X, 50X
- Communication protocol with Nikon Data-Process system
- Obtains high accurate depth measurements simply by coinciding the upper and lower portions of a graticule

## Applications

Various measurements such as:

- Height of lead frame
- Wafer bump height
- Height of solder
- Strain of lead frame
- Height of bonded portion of lead wire
- Steps on hybrid IC
- Terminal steps on multi-layer pc boards
- Recesses on cans
- Depth of metallic moulds



## Technical specifications

Main body	Focus unit with reflector
Microscope stand	Coarse focus range 65mm by alley guide rack and pinion mechanism Semi-coarse and fine focus range 25mm (cross-roller guide mechanism)
Sample height	0 - 77.5mm
Optical body (head)	Binocular (correct image), distance of pupil 53mm-73mm (45dgr) with C-mount
Eyepieces	WF-10X, field view 18 WF-10X with crossline scale reticle, field view 19 frame
Precise focusing Indicator	Back-stripe graticule, white-stripe graticule, without graticule, 3 stage selector, halogen illuminator (6V-20W) built-in transformer
Nosepiece	Quintuple
Objective	M Plan 10X, NA 0.25, WD 10.6mm
Measuring stage	
O3L crosswise movement	50mm
Fore and aft movement	100mm
Reader	Photoelectric encoder
Maximum weight of sample	5.0kg
Stage weight	19.0kg
Stage face	Crosswise 285mm x fore-and-aft 192mm
Stage dimension	413mm x 313mm x 90mm (including handle)
Z-Axis Indicator	ID-F125 reading to 1µm (25mm), AC-adaptor
Dimension of body	280 (W) x 348 (D) x 457.5 (H) mm
Weight main body	37kg
Weight O3L stage	19kg

## Standard delivery

- Main body focus unit with reflector
- Stand with transformer
- Nosepiece quintuple
- Optical body binocular
- Measuring stage 150mmx100mm with linear scale and stage glass
- 2-axis counter (Nikon)
- Z-axis indicator 25mm travel
- Eyepiece WF10x (Field 18)
- Eyepiece WF10X reticle
- Objective M Plan 10x, NA 0.25, WD 10.60

## Optional accessories

- Objective MPlan 5X, NA 0.10, WD 19.6mm
- Objective MPlan 20X, NA 0.40, WD 12mm
- Objective MPlan 50X, NA 0.50, WD 10.6mm
- Transmitted illuminator (lamp house)
- Stage 250mm x 100mm