



Video Measuring System VMZ-H3030

Video Measuring System

NEXIV

VMZ-H3030

High-precision Model



NEXIV VMZ-H3030

Achieves measurement at the highest precision of the NEXIV series, as well as advanced usability and performance.



Features

NEXIV model with the highest precision

$E_{UX, MPE}, E_{UY, MPE} : 0.6 + 2L / 1000 \mu m$

$E_{UZ, MPE} : 0.9 + L / 150 \mu m$

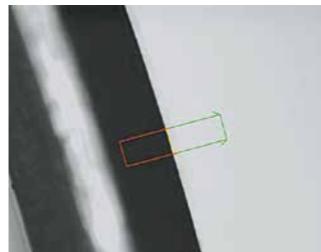
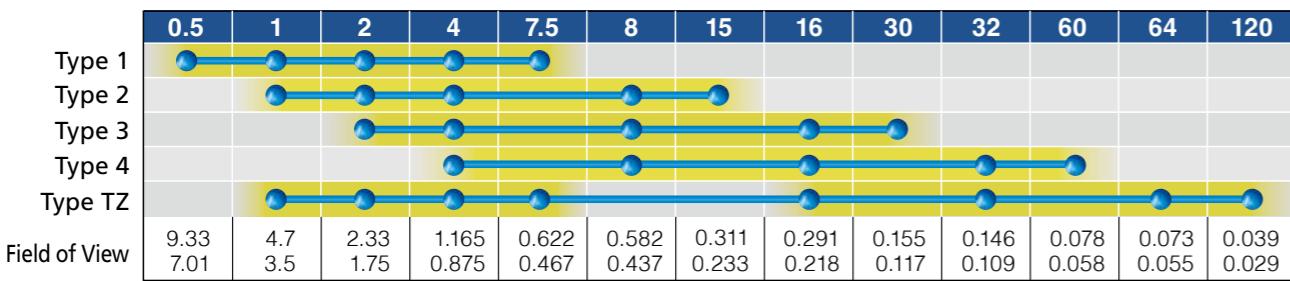
XYZ Stroke: **300x300x150 mm**



Zooming heads

5 types of optical zoom systems

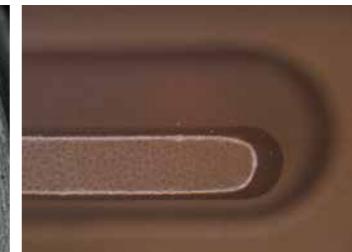
Type 1, 2, and 3 provide clear and low distortion image and high NA. Type 4 and TZ are designed to cover high magnification. 5 types are available to choose from to cover different fields of view and resolution requirements.



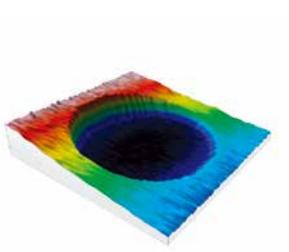
Finely machined part



Finely machined part



Molded part



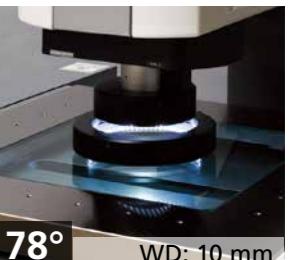
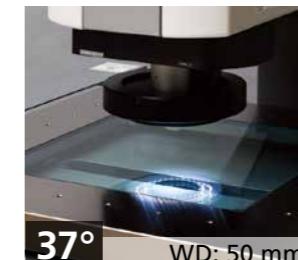
3D image by MountainsMap X
*optional software

Illumination

8-segment ring illuminator with three incident angles

The three different angles allow the ring illuminator to accurately capture edges. All illuminators employ white LED and provide stability and long life.

*For Type4 and Type TZ, please refer to Specifications Chart of PG4



Long WD

Short WD

Software

Easy to use, streamlined software

Functions possible with software

Measurement Code Suggestion NEW ... When creating a measurement program, the next command candidate is suggested on the GUI.

Auto Focus (AF) Retry NEW ... Prevents measurement interruption by automatically retrying AF until it is successful.

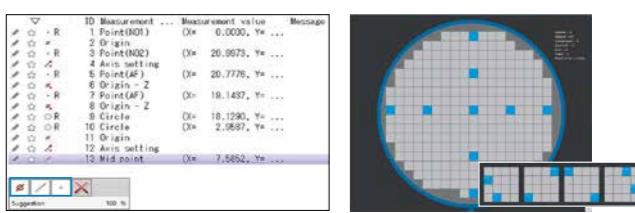
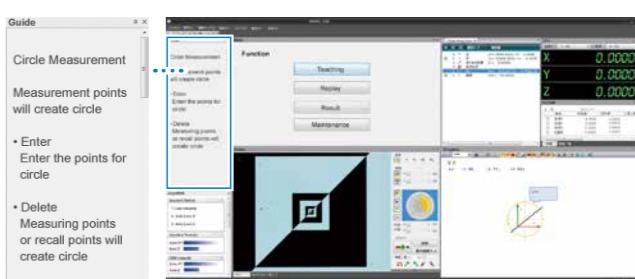
Automatic Measurement Path Optimization NEW ... The optimal measurement order for measurement points is automatically detected to achieve the fastest measurement.

Virtual (off-line) ... CAD interface off-line teaching support program

Profiler ... CAD interface off-line teaching support program

MountainsMap X (optional) ... Sample surfaces can be analyzed, based on ISO, with the data exported from the NEXIV system.

MapMeasure Pro (optional) ... MapMeasure Pro creates wafer maps and is capable of automatically measuring any die on the wafer map. Tray maps can also be created.



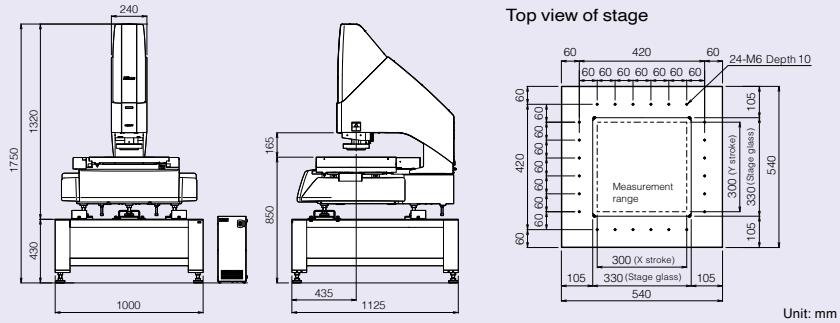
Measurement Code Suggestion

MapMeasure Pro

Specifications

Model	VMZ-H3030
XYZ Strokes	300x300x150 mm
Minimum readout	0.01 μ m
Maximum sample weight	30kg (Accuracy guaranteed: 10kg)
Maximum permissible error (for samples under 20 kg)	EUX,MPE EUY,MPE: 0.6+2L/1000 μ m EUXY,MPE: 0.9+3L/1000 μ m EUZ,MPE: 0.9+L/150 μ m
Accuracy guaranteed temperature	20 $^{\circ}$ C \pm 0.5 K
Maximum driving speed XY, Z	100 mm/s, 50 mm/s
Minimum driving speed XY, Z	0.01 mm/s, 0.001 mm/s
Camera	VGA 1/3" B/W, Color *Color camera option is available only with Type 1, 2 and 3.
Working distance	Type 1, 2, 3: 50 mm (10 mm when using 75 degree LED illumination) / Type 4: 30 mm Type TZ: 31 mm (low magnification), 11 mm (high magnification)
Magnification and FOV	Type 1: 0.5~7.5x/9.33x7.01~0.622x0.467 mm Type 2: 1~15x/4.67x3.5~0.311x0.233 mm Type 3: 2~30x/2.33x1.75~0.155x0.117 mm Type 4: 4~60x/1.165x0.875~0.078x0.058 mm Type TZ: 1~120x/4.67x3.5~0.039x0.029 mm
Autofocus	TTL Laser AF/Image AF
Illumination	
Type 1, 2, 3, and 4	Episcopic, diascopic, and 8-segment ring with 3 angles *All white LED/Type 4 has only 1 angle
Type TZ	Episcopic, diascopic, darkfield
Power source	AC 100 - 240 V \pm 10% 50/60 Hz
Power consumption	5 A - 2.5 A
Dimensions & weight	
Main body with table (WxDxH)	1000x1125x1750 mm / approx. 500 kg
Controller	190x450x440 mm / approx. 20 kg
Footprint (WxD)	3000x2800 mm

Dimensional diagram



Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. February 2026 ©2018-2026 NIKON CORPORATION

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クラス1レーザ製品
CLASS 1 LASER PRODUCT



TO ENSURE CORRECT USAGE, READ THE CORRESPONDING MANUALS CAREFULLY BEFORE USING THE EQUIPMENT.



NIKON CORPORATION

1-5-20, Nishioi, Shinagawa-ku, Tokyo 140-8601, Japan
Tel: +81 3 6743 5742

<https://industry.nikon.com/>

ISO 14001 Certified
for NIKON CORPORATION

ISO 9001 Certified
for NIKON CORPORATION
Industrial Solutions Business Unit

NIKON METROLOGY EUROPE NV
Interleuvenlaan 86, 3001 Leuven, Belgium
Tel: +32 16 74 01 01

Sales.NM@nikon.com

NIKON METROLOGY UK LTD.
UNITED KINGDOM Tel: +44 1332 811 349
Sales.UK.NM@nikon.com

NIKON METROLOGY SARL
FRANCE Tel: +33 1-60 86 09 76
Sales.France.NM@nikon.com

NIKON METROLOGY GMBH
GERMANY Tel: +49 211 4544 6951
Sales.Germany.NM@nikon.com

NIKON METROLOGY, LLC
12701 Grand River Road, Brighton, MI 48116 U.S.A.
Tel: +1 810 220 4360
Sales.NM-US@nikon.com

NIKON METROLOGY - MEXICO
Sales.NM-US@nikon.com

NIKON PRECISION (SHANGHAI) CO., LTD.
CHINA Tel: +86 21 6841 2050 (Shanghai)
CHINA Tel: +86 10 5831 2028 (Beijing branch)
CHINA Tel: +86 20 3882 0551 (Guangzhou branch)
Web.Nis@nikon.com

NIKON INSTRUMENTS KOREA CO., LTD.
KOREA Tel: +82 2 6288 1900
NIK.Sales@nikon.com

NIKON SINGAPORE PTE LTD.
SINGAPORE Tel: +65 6559 3651
NSG.Industrial-sales@nikon.com

PT. NIKON INDONESIA
INDONESIA Tel: +62 213 873 5005
PTN.Instruments@nikon.com

NIKON SALES (THAILAND) CO., LTD.
THAILAND Tel: +66 2633 5100
NST.Inst@nikon.com

NX-VMZH2602EN