Nikon

NEXIV



CNC Video Measuring System

NEXIV VMZ-R4540

microscope.ru

The new NEXIV incorporates the latest in technology and delivers high accuracy

4 types of optical zoom systems

Type 1, 2, and 3 zoom systems provide clear and low distortion image and high NA. Type A zoom system is designed for wide field of view and long working distance.

Magnification vs field of view (mm)

Type 1	Optical magnification	0.5×	1×	2×	4×	7.5×
	Total magnification	18×	36×	72×	144×	270×
	Field of View (mm)	9.33×7	4.67×3.5	2.33×1.75	1.165×0.875	0.622×0.467
Type 2	Optical magnification	1×	2×	4×	8×	15×
	Total magnification	36×	72×	144×	288×	540×
	Field of View (mm)	4.67×3.5	2.33×1.75	1.165×0.875	0.582×0.437	0.311×0.233
Type 3	Optical magnification	2×	4×	8×	16×	30×
	Total magnification	72×	144×	288×	576×	1080×
	Field of View (mm)	2.33×1.75	1.165×0.875	0.582×0.437	0.291×0.218	0.155×0.117
Type A	Optical magnification	0.35×	0.6×	1×	1.8×	3.5×
	Total magnification	14×	24×	40×	73×	141×
	Field of View (mm)	13.3×10	7.8×5.8	4.7×3.5	2.6×1.9	1.33×1

*Total magnification listed above represent those on the monitor screen when a 20" monitor is set to the UXGA (1600 x 1200 pixels) mode.

New Laser Auto Focus designed to New detect surface of thin transparent material

New Laser Auto Focus works with high speed, high accuracy same as VMR series Laser Auto Focus.

*Except for Type A

New Laser Auto Focus The new sensor detect both top and back surface. Protective glass Substrate

New 8-sector Ring Light system with three incident angles

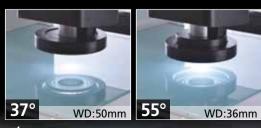
New

Nikon

Episcopic, diascopic and Ring illumination employ white LED and provide stability and long life.

New Ring Light System with three incident angles designed for correct edge capture.

*Except for Type A





Low incident angle / Long WD

High incident angle / short WD

advancements and throughput.





Measuring accuracy is further improved

New

Measuring accuracy is further improved with high resolution linear encorder 'ModuRay' developed by Nikon.



Suitable stroke for a variety of samples

New

450 x 400 x 200mm stroke is suitable for a large range of applications with enough room for fixture.

Faster throughput

High rate of data transfer combined with fast illumination control provide faster throughput.

Streamlined and logical software

New

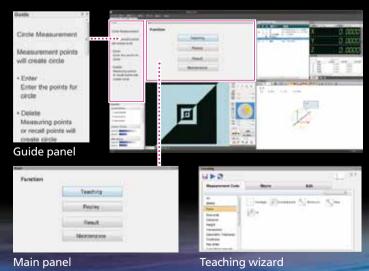
Redesigned User Interface with Wizard makes it easy for beginners to operate the system and create automated measurement programs.

[Standard]

- Virtual Auto Measure
 Profiler
- Measuring Report Generator

[Option]

EDF Stitching Express

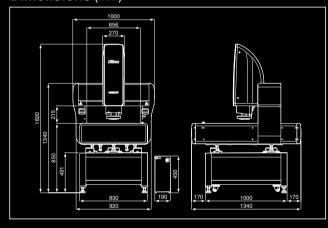




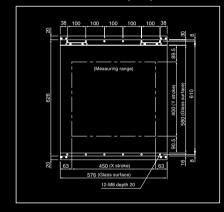
Specification

Model	V MZ-R 4540				
Stroke (XxYxZ)	450 x 400 x 200mm (17.7x15.7X7.8 inch)				
Minimum readout	0.1μm				
Maximum workpiece weight	40kg (88.2lb)				
Measuring uncertainty (Work piece max 20kg)	Eux, мре Euy, мре: 1.2+4L/1000µm Euxy,мре: 2+4L/1000µm				
Z measurement uncertainty	Euz,μρε: 1.2+5L/1000μm (Guaranteed by Laser AF)				
Camera	Progressive scan; B&W / 3CCD Color / High Resolution (Option) Contact Nikon sales rep. in case of Type3 with Color CCD				
Working Distance	Type 1/2/3: 50mm, Type A: 73.5mm (LaserAF 63mm)				
Magnification vs. field of view	Type 1: $0.5 \sim 7.5 \times / 9.33 \times 7 \sim 0.622 \times 0.467 \text{mm}$ Type 2: $1 \sim 15 \times / 4.67 \times 3.5 \sim 0.311 \times 0.233 \text{mm}$ Type 3: $2 \sim 30 \times / 2.33 \times 1.75 \sim 0.155 \sim 0.117 \text{mm}$ Type A: $0.35 \sim 3.5 \times / 13.3 \times 10 \sim 1.33 \times 1 \text{mm}$				
Auto focus	Laser AF (Type A option) / Image AF				
Illumination	Diascopic, Episcopic, 8 segment ring illumination (Type1/2/3 3 incident angle, Type A single incident angle)				
Power source	AC 100-240V 50/60Hz				
Power consumption	5A-2.5A				
Dimensions & Weight (WxDxH)	Main unit & table: 1020 x 1340 x 1820mm / 500kg (40.2 x 52.8 x 71.7 inch / 1100lb) Controller: 190 x 450 x 440 / 15kg (7.5 x 17.7 x 17.3 inch / 33lb)				
Footprint	2300 x 1700mm (90.6 x 66.9 inch)				

Dimensions (mm)



Position of tapped holes for custom fixtures (mm)



Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. January 2013 ©2013 NIKON CORPORATION

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*Products: Hardware and its technical information (including software)

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











NIKON METROLOGY NV Geldenaaksebaan 329

B-3001 Leuven, Belgium phone: +32 16 74 01 00 fax: +32 16 74 01 03 info@nikonmetrology.com

NIKON METROLOGY EUROPE NV

tel. +32 16 74 01 01 sales_europe@nikonmetrology.com

NIKON METROLOGY GMBH tel +49 6023 91733-0 sales_germany@nikonmetrology.com

NIKON METROLOGY SARL tel. +33 1 60 86 09 76 sales france@nikonmetrology.com

NIKON METROLOGY, INC.

tel. +1 810 2204360 sales_us@nikonmetrology.com us.nikonmetrology.com www.nikoninstruments.com

NIKON METROLOGY UK LTD.

tel. +44 1332 811349 sales uk@nikonmetrology.com

NIKON CORPORATION

Shin-Yurakucho Bldg., 12-1, Yurakucho 1-chome Chiyoda-ku, Tokyo 100-8331 Japan phone: +81 3 3773 9026 fax: +81 3 3773 9062 www.nikon-instruments.jp/eng/

NIKON INSTRUMENTS (SHANGHAI) CO. LTD.

tel. +86 21 5836 0050

tel. +86 10 5869 2255 (Beijing office) tel. +86 20 3882 0550 (Guangzhou office)

NIKON SINGAPORE PTE. LTD.

tel. +65 6559 3618

NIKON MALAYSIA SDN. BHD. tel. +60 3 7809 3609

NIKON INSTRUMENTS KOREA CO. LTD.

tel. +82 2 2186 8400

Официальный дистрибьютор Nikon в России и странах СНГ





Россия, 127055, г. Москва, ул. Новолесная, д. 2 тел.: +7 (495) 223-40-00 факс: +7 (495) 223-40-01 http://www.tokyo-boeki.ru email: systems@tokyo-boeki.ru