The NEXIV VMR-3020 has been discontinued.

Key Features

Type 1,2,3 Models

- 3 models (type: 1, 2, 3) with 5-step zoom magnification to cover different fields of view and resolution requirements
- Long working distance (50mm) permits measurement of parts with large height variances
- 300 X, 200 Y mm travel, with cast Mehanite stage of 150mm Z
- Programmable dual white LED illuminator rings
- A variety of illumination choices facilitates accurate detection of edges in molded parts
- 15x zoom provides wide field of view for rapid search and high magnification for precise measurement. Accurate calibration at all magnifications allows rapid field of view measurements of multiple parameters
- Faster image acquisition and system speed with selected defect-free instrument grade progressive scan black & white CCD camera
- User-friendly and versatile VMR Automeasure software includes: CAD reader, offline programing, profiling software and programing wizards
- Laser AF enables cross-sectional shape and flatness evaluation as well as 3D profiling
- Improved stage accuracy with new lower coefficient of expansion 0.1µm resolution scales.
- Ideal for semiconductor packages, substrates, stamped parts, connectors, injection molded parts
- Superior performance for medical devices
- Optional Computer System B with the Cognex CX imaging card allows image rotation with pattern recognition for samples like Mulit-Lumen tubing (which can be oriented in any direction)

Z120X Model (with Maximum Magnification Module)

The NEXIV VMR-3020 maximum magnification module achieves measurements of finely machined workpieces. Perfect for

measurements of topical MEMS parts, high-density PCBs and semiconductor packages.

- The combination of the maximum magnification module and high-precision stage enables accurate measurements of large geometry workpieces as well as minute structures
- Laser AF uses small spot size to provide accurate measurements of finer cross-sectional shapes and heights
- Optional surface analysis software displays 3D shapes of MEMS parts

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LU Model (universal epi-illuminator/motorized nosepiece)

- Full range of Nikon CFI60 LU microscope objectives from 5x to 150x
- Supports brightfield, darkfield, DIC, simple polarizing applications
- Motorized quintuple universal nosepiece
- Easy to use software controls all functions of the system

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NEXIV VMR-3020 Specifications

Stage Stroke (Xx Yy Zz) (Standard):	300 x 200 x 150mm (11.8 x 7.9x 5.9) in
Minimum readout:	0.1 µm
Maximum work piece weight:	20kg (44.0 lb)
Measuring accuracy at 20C+/-0.5K:	
U1x U1y:	1.5 + 4L/1000 µm
U2xy (Standard):	2.5 + 4L/1000 µm
Z-axis guide accuracy:	(1.5+L/150) µm
Camera:	B/W Progressive Scan camera or color CCD camera
Maximum specimen height (Standard):	150mm
Objective Working Distance:	Type 123=50mm, z120x=hi mag. 9.8mm, low mag. 32mm
Zoom Head Magnification and Field of View:	Type 1: 0.5- 7.5x, 9.33 x 7.00mm - 0.622 x 0.467; Type 2: 1- 15x, 4.67 x 3.50mm - 0.311x 0.233mm; Type 3: 2 - 30x, 2.33 x 1.75mm - 0.155 x 0.117mm
Auto Focus:	(TTL)Through the lens laser and video auto focus

Power Source:	AC 100 to 240 V ±10%, 50/60 Hz
Power Consumption:	Approximately 7A
Dimensions and Weight:	
Main Body Only:	500(W) x 690(D) x 1195(H) mm, 160kg; 19.7(W) x 27.2(D) x 47(H) in., 352.7lb
Main Body & Table:	690(W) x 730(D) x 1725(H) mm, 200kg; 27.2(W) x 28.8(D) x 67.9(H) in., 440.9lb
Controller:	250(W) x 550(D) x 500(H) mm, 20kg; 9.8(W) x 21.7(D) x 19.7(H) in., 44.1lb
Foot Print:	2100(W) x 1100(D) mm; 82.7(W) x 43.3(D) in.
Host Computer:	
Main unit:	PC Core 2 Duo (Windows XP SP2)
Monitor:	19-inch LCD (USA)

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