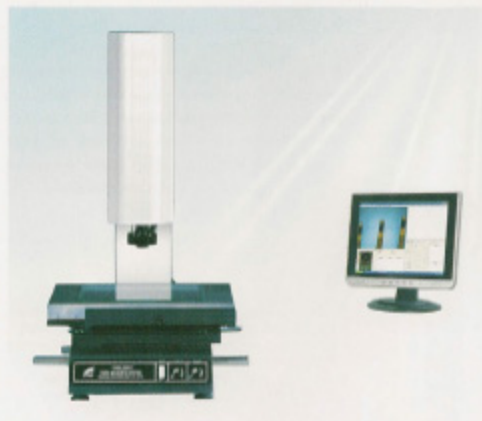


## 2D NC Video Measuring Machine Pomeas VMM-NC series



### Applied-fields:

2D NC Video measuring machine is a precise and effective non-contact optical measuring instrument. It is composed of a series of accessories, such as color CCD camera & adapter, zoom lens, capture card, linear scales, high precision worktable, electronic motor, PC and monitor.

The QuickMeasuring software is able to control the brightness of 40-division lightsource, auto-focus, X,Y and Z-axis auto-movement, TXT, Excel report output immediately, dxd drawing input quickly. The operator can setup auto-program-run in light of different measurement case for different workpieces, it improves the operator's working efficiency effectively and deduce the enterprise's cost of human resource obviously.

### Characteristics:

It is mainly applied in 2D automatic measurement fields, such as: PCB, mobile phone fittings, linker, machine fitting, precision fixture, it can measure 3D in non-contact video solution too.

It is a necessary instrument for 2D measurement in college, research institute and metrology department.

### Specifications:

Model Pomeas	VMM-2515NC	VMM-3020NC	VMM-4030NC	VMM-5030NC
Metal table size	450×280mm	510×290mm	606×466mm	700×450mm
Glass table size	306×196mm	350×280mm	450×350mm	550×350mm
Travel: X,Y	250×150mm	300×200mm	400×300mm	500×300mm
Net Weight	120Kg	200Kg	240Kg	500Kg
Dimension	760×600×900mm	760×600×1000mm	950×700×1100mm	1600×800×1660mm
Z-axis travel: 150mm	Work distance: 108mm			
Resolution of X,Y,Z scales : 1um	X,Y-axis accuracy: $\leq (3+L/200)\mu\text{m}$			
Video system	Camera: Color 1/3" CCD camera Optical Magnification: 0.7~4.5X Digital Magnification: 10~300X Object view-field: 10.6~1.6mm Contour and surface illumination: Ring LED and brightness can be setup			
Power: AC 110V/60Hz; 220V/50Hz				
Measuring Software: QuickMeasuring 4.1				

Optional accessories: Navitar zoom lens JT100 (America) - Sony 1/2" CCD JT160 (Japan).

### Accessories:

	1X CCD adpter (standard)		0.5X CCD adpter (option)		Working distance
Zoom lens	0.7~4.5X		0.7~4.5X		
Zoom lens	Digital magnification	Visual field	Digital magnification	Visual field	
0.5X (option)	15~95X	20~3.2mm	7.5~48X	40~6.4mm	175mm
1X (standard)	30~190X	10.6~1.6mm	15~96X	20~3.2mm	96mm
2X (option)	60~380X	5~0.8mm	30~190X	10.6~1.6mm	32mm

**Recommended working cupboard:** JT03U, loading  $\geq 350\text{kg}$ , dimension (length×width×height): 1000×600×500(mm)

## Video Measuring Machine VMM-CI Series with Coaxial Illumination



### Applied-fields:

It can be used for observing and measuring reflecting objects in 2D measurement fields. It is especially suitable for checking-up the underside of the small deep hole, the bug of LCD, checking-up and measuring plane presswork and other plane articles with low reflectivity.

### Characteristics:

2D Video measuring machine VMM-CI series are precise and effective non-contact optical measuring instrument. It is composed of series of accessories, such as Sony 1/2" color CCD camera & adapter & capture card, Navitar zoom lens with coaxial illumination, linear scales, high precision worktable, PC and monitor.

The QuickMeasuring software is able to control the brightness of 4-division lightsource.TXT, Excel report output immediately, dxf drawing input quickly.

### Specifications:

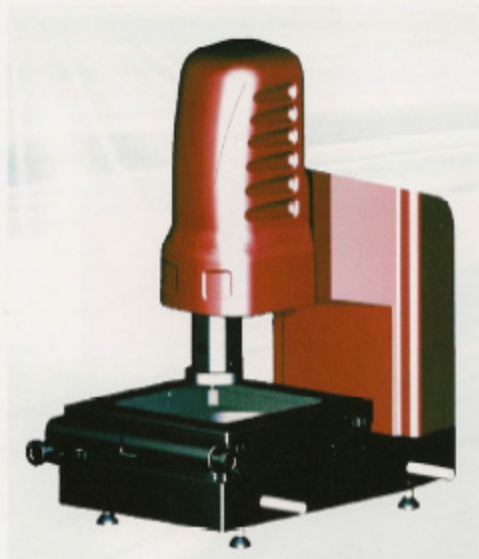
Model	(Pomeas)	VMM-1510CI	VMM-2010CI	VMM-2515CI	VMM-3020CI	VMM-4030CI
Worktable	Metal table size	354×228mm	404×228mm	450×280mm	510×290mm	606×466mm
	Gross table size	210×160mm	260×160mm	306×196mm	360×260mm	450×350mm
	Travel: X/Y	150×100mm	200×100mm	250×150mm	300×200mm	400×300mm
	Net Weight	100Kg	110Kg	120Kg	200Kg	240Kg
	Dimension	540×560×850	760×600×900	760×670×940	970×670×940	970×670×940
	Z-axis travel: 150mm	Resolution of X/Y/Z scales: 1um		Working distance: 108mm		X,Y accuracy: ≤ (3+L/200)um
Video system	Camera: SONY Color 1/2" CCD camera Optical Magnification: 0.7~4.5X Digital Magnification: 10~300X Object view-field: 10.6~1.6mm Optical fiber lightsource					
Power supply	AC110V/60Hz; 220V/50Hz					
Measuring Software	QuickMeasuring 2.0					

### Accessories:

	1X CCD adpter (standard)		0.5X CCD adpter (option)		Working distance
Zoom lens	0.7~4.5X		0.7~4.5X		
Zoom lens	Digital magnification	Visual field	Digital magnification	Visual field	
0.5X (option)	15~95X	20~3.2mm	7.5~48X	40~6.4mm	175mm
1X (standard)	30~190X	10.6~1.6mm	15~95X	20~3.2mm	95mm
2X (option)	60~380X	5~0.8mm	30~190X	10.6~1.6mm	32mm

Recommended working cupboard: JT03U, loading ≥350kg, dimension(length×width×height): 1000×600×500(mm)

## 2D Manual Video Measuring Machine Vexus VM series



### Applied-fields:

Vexus VM series video measuring machine is high-power non-contact optical measuring instrument, it is mainly applicable for the measurement of PCB, precise mould, rubber and plastic and other industries.

### Characteristics:

- ◇ Creative modern-shape-design;
- ◇ Fashionable auto-painting-craftwork;
- ◇ Steady granite base system;
- ◇ Stable imported Y-shape guide;
- ◇ Precise metal and glass worktable system;
- ◇ Adjustable USB 4-division ring LED illumination;
- ◇ Advanced Navitar 0.7~4.5x Zoom lens;
- ◇ Wonderful Sony 1/2" Color CCD camera;
- ◇ Powerful 2.5D measuring software QuickMeasuring 2.1 measuring software.

### Technical Specifications of Instrument:

Model	Vexus VM3020	Vexus VM3030	Vexus VM4030	Vexus VM5030
Metal table size	450 x 350 mm	450 x 450 mm	550 x 450 mm	650 x 450 mm
Glass table size	350 x 250 mm	350 x 350 mm	450 x 350 mm	550 x 350 mm
Travel: X / Y-axis	300 x 200 mm	300 x 300 mm	400 x 300 mm	500 x 300 mm
Travel: Z-axis	200 mm			
X, Y, Z Scale Resolution	0.5 um			
Accuracy	X, Y axis accuracy: $\leq (3+L/200)\mu\text{m}$			
	Focus accuracy: $\leq 5\mu\text{m}$			
Note: Red, white and gray color available on instrument.				

### Technical specification of Zoom lens:

Navitar Zoom lens Zoom 1-6265	Adjective objective	0.5X	1X	2X
	Optical magnification	0.35~2.25X	0.7~4.5X	1.4~4.5X
	Working distance	143~187mm	81~93mm	34~37mm
	Resolution	15.15~4.76um	7.25~2.35um	3.6~1.17um
	1/3" CCD Visual field	17.16~2.67mm	8.58~1.33mm	4.29~0.76mm
	1/2" CCD Visual field	22.85~3.56mm	11.42~1.77mm	5.71~0.89mm

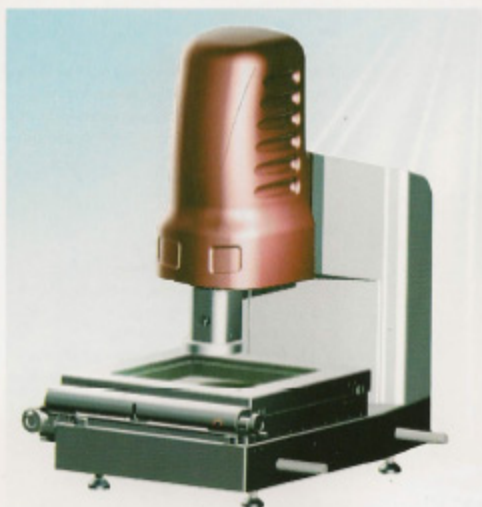
### Technical specification of CCD Camera:

Model	Pickup Device & Lens	Display System	TV Lines	Min. Illumination	Power Source	Dimension
Sony JT160	1/2" Colour (Sony ExWave HAD CCD, C/CS-mount)	PAL	480	0.4Lux	DC 12V/ AC24V	70*57*260

### Recommended working cupboard: JT03U

Loading  $\geq 350\text{kg}$ , dimension(length x width x height): 1000 x 600 x 500(mm)

## 3D Manual Video Measuring Machine Vexus VMP series



### Applied-fields:

Vexus 3D VMP series video measuring machine is high-power non-contact optical measuring instrument with touch Renishaw probe, it is mainly applicable for the measurement of PCB, precise mould; rubber and plastic and other industries in video function and probe function.

### Characteristics:

- ◇ Creative modern-shape-design;
- ◇ Fashionable auto-painting-craftwork;
- ◇ Steady granite base;
- ◇ Stable imported V-shape guide;
- ◇ Precise metal and glass worktable;
- ◇ Adjustable USB 4-division ring LED illumination;
- ◇ Advanced Navitar 0.7~4.5x Zoom lens;
- ◇ Wonderful Sony 1/2" Color CCD camera;
- ◇ Touchable Renishaw probe;
- ◇ Powerful 2.5D measuring software QuickMeasuring3.1 version

### Technical Specifications of Instrument:

Model	Vexus VMP3020	Vexus VMP3030	Vexus VMP4030	Vexus VMP5030
Metal table size	450 x 350 mm	450 x 450 mm	550 x 450 mm	650 x 450 mm
Glass table size	350 x 250 mm	350 x 350 mm	450 x 350 mm	550 x 350 mm
Travel: X / Y-axis	300 x 200 mm	300 x 300 mm	400 x 300 mm	500 x 300 mm
Travel: Z-axis	200 mm			
X, Y, Z Scale Resolution	0.5 um			
Accuracy	X, Y zxis accuracy: $\leq(3+L/200)\mu\text{m}$			
	Focus accuracy: $\leq 5\mu\text{m}$			
Note: Red, white and gray color available on instrument.				

### Technical specification of Zoom lens:

Navitar Zoom lens Zoom 1-6265	Adjective objective	0.5X	1X	2X
	Optical magnification	0.35~2.25X	0.7~4.5X	1.4~4.5X
	Working distance	143~187mm	81~93mm	34~37mm
	Resolution	15.15~4.76um	7.25~2.35um	3.6~1.17um
	1/3" CCD Visual field	17.16~2.67mm	8.58~1.33mm	4.29~0.76mm
	1/2" CCD Visual field	22.85~3.56mm	11.42~1.77mm	5.71~0.88mm

### Technical specification of CCD Camera:

Model	Pickup Device & Lens	Display System	TV Lines	Min. Illumination	Power Source	Dimension
Sony JT160	1/2" Colour (Sony ExWave HAD CCD, C/CS-mount)	PAL	480	0.4Lux	DC 12V/ AC24V	70*57*260

### Recommended working cupboard: JT03U

Loading  $\geq 350\text{kg}$ , dimension(length x width x height): 1000 x 600 x 500(mm)

## 2D CNC Video Measuring Machine Vexus VMC series



### Applied-fields:

Vexus 2D VMC series video measuring machine is high-power non-contact optical measuring instrument, it is mainly applicable for the quick and batch measurement of PCB, precise mould; rubber and plastic and other industries.

### Characteristics:

- ◇ Creative modern-shape-design;
- ◇ Fashionable auto-painting-craftwork;
- ◇ Steady granite base;
- ◇ Stable imported V-shape guide;
- ◇ Precise metal and glass worktable;
- ◇ High-speed 3-axis CNC driven motor;
- ◇ Adjustable USB 40-division ring LED illumination;
- ◇ Advanced Navitar 0.7~4.5x Zoom lens;
- ◇ Wonderful Sony 1/2" Color CCD camera;
- ◇ Powerful 2.5D measuring software QuickMeasuring4.1 version

### Technical Specifications of Instrument:

Model	Vexus VMC3020	Vexus VMC3030	Vexus VMC4030	Vexus VMC5030
Metal table size	450 x 350 mm	450 x 450 mm	550 x 450 mm	650 x 450 mm
Glass table size	350 x 250 mm	350 x 350 mm	450 x 350 mm	550 x 350 mm
Travel: X / Y-axis	300 x 200 mm	300 x 300 mm	400 x 300 mm	500 x 300 mm
Travel: Z-axis	200 mm			
X,Y,Z Scale Resolution	0.5 um			
Accuracy	X,Y zxis accuracy: $\leq(3+L/200)\mu\text{m}$			
	Focus accuracy: $\leq 5\mu\text{m}$			
Note: Red, white and gray color available on Instrument.				

### Technical specification of Zoom lens:

Navitar Zoom lens Zoom 1-6265	Adjective objective	0.5X	1X	2X
	Optical magnification	0.35~2.25X	0.7~4.5X	1.4~4.5X
	Working distance	143~187mm	81~93mm	34~37mm
	Resolution	15.15~4.76um	7.25~2.35um	3.6~1.17um
	1/3" CCD Visual field	17.16~2.67mm	8.58~1.33mm	4.29~0.76mm
	1/2" CCD Visual field	22.85~3.56mm	11.42~1.77mm	5.71~0.89mm

### Technical specification of CCD Camera:

Model	Pickup Device & Lens	Display System	TV Lines	Min. Illumination	Power Source	Dimension
Sony JT160	1/2" Colour (Sony ExWave HAD CCD, C/CS-mount)	PAL	480	0.4Lux	DC 12V/ AC24V	70*57*260

### Recommended working cupboard: JT03U

Loading  $\geq 350\text{kg}$ , dimension(length $\times$ width $\times$ height): 1000 $\times$ 600 $\times$ 500(mm)

## 2D Manual Large Video Measuring Machine Pomeas VML Series



### Applied-fields:

VML manual series video measuring machine is high-power non-contact optical measuring instrument with large working travel, and it is mainly applicable for the measurement of large PCB, LCD and other big parts.

### Characteristics:

- ◇ Modern shape design;
- ◇ Fashionable auto-painting-craftwork;
- ◇ Steady granite base;
- ◇ Stable imported V-shape guide;
- ◇ Precise metal and glass worktable;
- ◇ High-speed 3-axis CNC driven motor;
- ◇ Adjustable USB 4-division ring LED illumination;
- ◇ Advanced Navitar 0.7~4.5X Zoom lens;
- ◇ Wonderful Sony 1/2" Color CCD camera;
- ◇ Powerful 2.5D measuring software QuickMeasuring 2.1 version

### Specifications:

Model		Pomeas VML-5030	Pomeas VML-6040	Pomeas VML-6060
Worktable	Metal table size	760×640mm	800×550mm	800×800mm
	Glass table size	550×350mm	650×450mm	650×650mm
	Travel: X,Y	500×300mm	600×400mm	600×600mm
	Z-axis travel: 200mm Resolution of X,Y,Z scales: 1um	Work distance: 92mm X,Y-axis accuracy: ≤(3+L/200)um		
Video system	Camera: Color 1/2" CCD camera (Japan) Optical Magnification: NAVITAR zoom lens 0.7~4.5X Digital Magnification: 10~300X Object view-field: 10.6~1.6mm			
Measuring	QuickMeasuring All automatic measuring software			

#### Technical specification of Zoom lens:

Navitar Zoom lens Zoom 1-6265	Adjective objective	0.5X	1X	2X
	Optical magnification	0.35~2.25X	0.7~4.5X	1.4~4.5X
	Working distance	143~187mm	81~93mm	34~37mm
	Resolution	15.15~4.76um	7.25~2.35um	3.6~1.17um
	1/3" CCD Visual field	17.16~2.67mm	8.58~1.33mm	4.29~0.76mm
	1/2" CCD Visual field	22.85~3.56mm	11.42~1.77mm	5.71~0.89mm

#### Technical specification of CCD Camera:

Model	Pickup Device & Lens	Display System	TV Lines	Min. Illumination	Power Source	Dimension
Sony JT160	1/2" Colour (Sony ExWave HAD CCD, C/CS-mount)	PAL	480	0.4Lux	DC 12V/ AC24V	70*57*280

## 2D CNC Large Video Measuring Machine VML-CNC series



### Applied-fields:

VML-CNC series video measuring machine is high-power non-contact optical measuring instrument with large working travel, it is mainly applicable for the quick and batch measurement of large PCB, LCD and other big parts.

### Characteristics:

- ◇ Modern shape design;
- ◇ Fashionable auto-painting-craftwork;
- ◇ Steady granite base;
- ◇ Stable imported V-shape guide;
- ◇ Precise metal and glass worktable;
- ◇ High-speed 3-axis CNC driven motor;
- ◇ Adjustable USB 40-division ring LED illumination;
- ◇ Advanced Navitar 0.7~4.5x Zoom lens;
- ◇ Wonderful Sony 1/2" Color CCD camera;
- ◇ Powerful 2.5D measuring software QuickMeasuring4.1 version

### Specifications:

Model		VML-6060CNC	VML-1080CNC	VML-1210CNC
Worktable	Metal table size	760×640mm	1140×1000mm	1140×1360mm
	Glass table size	550×350mm	1050×850mm	1050×1250mm
	Travel: X,Y	600×600mm	1000×800mm	1000×1200mm
	Z-axis travel: 200mm Resolution of X,Y,Z scales: 1um		Work distance: 92mm X,Y-axis accuracy: ≤(3+L/200)um	
Video system	Camera: Color 1/2" CCD camera (Japan) Optical Magnification: NAVITAR zoom lens 0.7~4.5X Digital Magnification: 10~300X Object view-field: 10.6~1.6mm			
Measuring	QuickMeasuring All automatic measuring software			

### Technical specification of Zoom lens:

Navitar Zoom lens Zoom 1-6265	Adjective objective	0.5X	1X	2X
	Optical magnification	0.35~2.25X	0.7~4.5X	1.4~4.5X
	Working distance	143~187mm	81~93mm	34~37mm
	Resolution	15.15~4.76um	7.25~2.35um	3.6~1.17um
	1/3" CCD Visual field	17.16~2.67mm	8.58~1.33mm	4.29~0.76mm
	1/2" CCD Visual field	22.85~3.56mm	11.42~1.77mm	5.71~0.89mm

### Technical specification of CCD Camera:

Model	Pickup Device & Lens	Display System	TV Lines	Min. Illumination	Power Source	Dimension
Sony JT160	1/2" Colour (Sony ExWave HAD CCD, C/CS-mount)	PAL	480	0.4Lux	DC 12V/ AC24V	70*57*260