

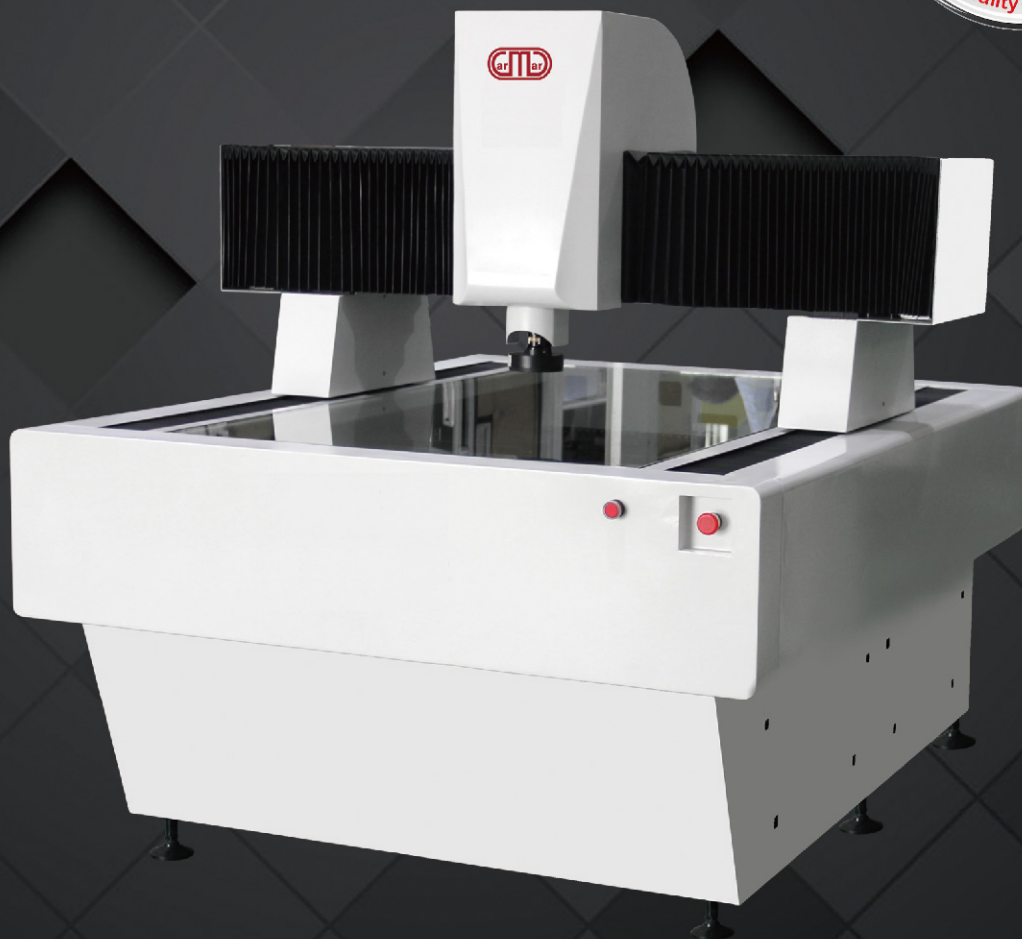


# CARMAR ACCURACY CO., LTD

## VIDEO MEASURING MACHINE.

### Applying range:

- \* electronic part, precision mold, precision tool,
- \* spring, screw processing, plastic, rubber, oil seal valve,
- \* conductive rubber and PCB processing, and more.



*We are Manufacturer of Linear Scale, Digital Readout, Profile Projector, Video Measuring Machine, CMM, and more*

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# Manual Type Video Measuring Machine

VMM-D series are one of the best developed products in Carmar's product lines. Providing customers with precise, cost effective equipments and good service are our business philosophy. VMM series satisfy all kinds of two dimensional measurements with software.

## ● Features:

1. High accuracy with fixed working table and granite pedestal. (Optional: probe)
2. RS-232 interface can do communication between measuring software and computer.
3. High resolution 1/2" color CCD camera and zoom lens with sharp images.( OPTIONAL )
4. The user can manage and output the graphs as bmp or DXF (AutoCad) format by connecting with PC and running the program.
5. One-click edge detection.



## ■ VMM-D Series Specifications :

Model	VMM-1510D	VMM-2010D	VMM-2515D	VMM-3020D	VMM-4030D
Stage Size (mm)	354 × 228	404 × 228	450 × 280	500 × 330	606 × 466
Glass Size (mm)	210 × 160	260 × 160	306 × 196	350 × 250	450 × 350
X/Y Travel (mm)	150 × 100	200 × 100	250 × 150	300 × 200	400 × 300
Weight (kg)	100	110	120	140	240
Dimensions (mm)	540 × 560 × 860		760 × 600 × 900		970 × 670 × 940
Z axis travel (mm)	175 mm				
Z working range (mm)	VMM-D series: 105 mm				
Accuracy	( 3 + L / 200 ) μm ; L: measuring length (mm)				
Digital Display	Digital Display : 3M (DC3000) (Optional)				
Measuring Software	2.5D Series				
Video System	<ul style="list-style-type: none"> <li>● CCD Camera: Colour 1/3" CCD Camera</li> <li>● Zoom Lens:                             <ul style="list-style-type: none"> <li>Magnification of field lens 0.7X-4.5X</li> <li>Total Magnifications 33X-195X</li> <li>Object View 8.1mm-1.3mm</li> </ul> </li> </ul> <p style="text-align: right;">(Value varies based on different monitor)</p>				
Lightening System	Adjustable LED Surface and Transmission illumination				
Power Supply	AC220V/110V 50/60 Hz				

Function-enhanced options as below , please refer to accessories of video measuring machine.

- Standard Zoom Lens Option
- Precision Zoom Lens Option
- Touch Probe Option

SUPPLIER RESERVES THE RIGHT TO ALTER THE SPEC.

# CNC Type Video Measuring Machine

## VMM-C series

### ● Features:

1. Auto focus function, Joystick control. (Optional: probe)
2. High accuracy with fixed working table and granite pedestal.
3. Fast servo motor controlling.
4. High resolution 1/2" color CCD camera and Zoom lens with sharp images.
5. USB interface linear exchanger can connect with professional measuring software.
6. Surface cold-light source is used to enhance the performance of illumination.
7. Applying MS Windows with CNC software with analysis abilities ensures the best performance.



### ■ VMM-C Series Specifications :

Model	VMM-2515C	VMM-3020C	VMM-4030C
Stage Size (mm)	450 x 280	500 x 300	606 x 466
Glass Size (mm)	306 x 196	350 x 250	450 x 350
Travel (mm)	X	220	270 (300)
	Y	120	170 (200)
	Z	150 (for focusing)	
Driving System	Servo Motor Control		
Resolution of X/Y/Z-axis	0.5 μm		
Positioning Accuracy	0.001 mm (1 μm)		
Accuracy	≤3.0 + L / 200 (μm), L: measuring length (mm)		
Software	2.5D Series		
Video System	<ul style="list-style-type: none"> <li>● <b>CCD Camera: Color 1/2" CCD Camera</b></li> <li>● <b>Lightening System :</b> Cold-light source Surface and Transmission illumination</li> <li>● <b>Standard: Manual Zoom Lens</b> Magnification of field lens : 0.7X - 4.5X Total Magnifications : 23.5X - 148X Object View : 11.1mm - 1.7mm</li> </ul> <p>(Value varies based on different monitor)</p>		
Weight (kg)	201	223	321
Power Supply	AC220V/110V 50/60 Hz		

Function-enhanced options as below ,  
please refer to accessories of video measuring machine.

- Standard Zoom Lens Option
- Precision Zoom Lens Option

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# Bridge Type CNC Video Measuring Machine VMM-C Series



Bridge type designs with granite structure and guidance of air bearing that provides rapid movement and accurate position for high traverse. Bridge type is the ideal model for larger LCD and PCB inspection. Working with professional CNC software: QMS3D satisfies various sizes measurements.

● **Features:**

1. Auto focus function, Joystick control, (Optional: probe)
2. Powerful controller used for Auto-focus to perform high repeatability;
3. Fast servo motor controlling;
4. High resolution 1/2" color CCD camera and zoom lens;
5. Linear guide design for X and Y-axis and table structure of granite ensures geometric accuracy and vibration resistance.
6. Surface cold-light source is used to enhance the performance of illumination.



■ **VMM-C Series Specifications :**

Model	VMM-6060L	VMM-0810L
Glass table	700 X 1190	900 X 1588
Travel	600 X 600	800 X 1000
X, Y, Z Axis Resolution	0.5 μm	
Accuracy	$E_{1XY}=(3.5+L/200)\mu\text{m}$	
Dimension	1390 X 1300 X 1600	1790 X 1500 X 1600
Weight(kgs)	1500	1900
Z Axis travel	200 mm	
X, Y Axis max. speed	400 mm/s	
Vides System	<ul style="list-style-type: none"> <li>● <b>CCD Camera:</b>Color 1/2" CCD Camera</li> <li>● <b>Lighting System</b> Adjustable LED Surface and Transmission illumination</li> <li>● <b>Standard: Manual Zoom Lens</b> Magnification of field lens : 0.7X - 4.5X Total Magnifications : 23.5X - 148X Object View : 11.1mm – 1.7mm</li> </ul> <p style="text-align: right;">(Value varies based on different monitor)</p>	

We reserve the right to alter the specification

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