

## Manual Video Measuring System



### Product Characteristic:

- Adopt granite stone base and column to ensure the stability and precision of the machine;
- Adopt toothless polished rod and fast-moving locking device to ensure that the return error of the table is within 2um;
- Adopt high-precision instrument optical ruler and precision worktable to ensure the accuracy of the machine is within  $\leq 3.0+L/200\mu\text{m}$ ;
- Adopt zoom lens and high-resolution color digital camera to ensure clear picture quality without distortion;
- Using the program-controlled surface 4-ring 8-area LED cold illumination and Contour LED Parallel

Illumination as well as a built-in intelligent light adjustment module, the area brightness of the light in the 4-ring 8-area can be freely controlled;






- iMeasuring Vision measurement software improves quality control to a new level;
- Optional contact probe and three-dimensional measurement software can be used to upgrade the machine to a contact three-dimensional measuring machine.
- It can be upgraded to install an autofocus function module to achieve accurate semi-automatic measurement.

## Technical Specifications:

Commodity	Manual Video Measuring System VMS Series	
Model	VMS-3020	VMS-4030
Marble Workbench	(505*350)mm	(605*450)mm
Glass Workbench	(356*248)mm	(456*348)mm
X/Y axis Travel	(300*200)mm	(400*300)mm
Z axis travel	High-precision linear guide, effective travel 200mm	
X/Y/Z axis resolution	0.5um	
Pedestal and Uprights	High Precision Granite	
Measurement Accuracy*	XY axis: $\leq 3.0+L/200(\mu\text{m})$ ; Z axis: $\leq 5+L/200(\mu\text{m})$	
Repeat Accuracy	2um	
Illumination System(Software Adjustment)	Surface 4 rings and 8 zones infinitely adjustable LED cold Illumination	
	Contour LED Parallel Illumination	
	Optional Coaxial Light	
Digital Camera	1/3"/1.3Mpixel High Resolution Digital Camera	
Zoom Lens	6.5X High-Resolution Zoom lens;	
	Optical Magnification: 0.7X~4.5X times; Video Magnification: 26X~172X(21.5" Monitor)	
Measuring Software	iMeasuring	
Operation System	Support WIN 10/11-32/64 Operating System	
Language	English, Simplified Chinese, Traditional Chinese, Optional other language versions	
Working Environment	Temperature 20°C±2°C, temperature change <1°C/Hr; Humidity 30%~80%RH; Vibration <0.02g's, ≤15Hz.	
Power Supply	AC220V/50Hz; 110V/60Hz	

Dimension(WxDxH)	(740*634*1075)mm	(840*734*1175)mm
Gross/Net Weight	275/208Kg	375/300Kg

## Product Configuration Model Description (Example with VMS-3020)

Product Category	Manual Video Measuring System			Semi-auto Video Measuring System	
Sensor Configuration	<b>2D</b>	<b>2.5D</b>	<b>3D</b>	<b>2.5D</b>	<b>3D</b>
Commodity	2D Video Measuring System	2.5D Video Measuring System	3D Contact & Video Measuring System	2.5D SemiautomaticVideo Measuring System	3D Semiautomatic Contact & Video Measuring System
Product Picture					
Model	VMS-3020	VMS-3020A	VMS-3020B	VMS-3020C	VMS-3020D
Type	-----	A	B	C	D
Significance	Optical Zoom-lens Sensor	Optical Zoom-lens Sensor	Zoom-lens Sensor and Contact Probe Sensor	Zoom-lens Sensor and Z-axis Autofocus Function	Zoom-lens Sensor, Contact Probe Sensor and Autofocus Function
Z-axis Auto-focus	Without	Without	Without	With	With
Contact Probe	Without	Without	With	Without	With
Software	iMeasuring2.0	iMeasuring2.1	iMeasuring3.1	iMeasuring2.2	iMeasuring3.1
Operation	Manual	Manual	Manual	Semi-auto	Semi-auto

## Manual Video Measuring System Models and Specifications

Model	Code#	Model	Code#	Model	Code#	Model	Code#
VMS-2015	525-020E	VMS-2515	525-020F	VMS-3020	525-020G	VMS-4030	525-020H
VMS-2015A	525-120E	VMS-2515	525-120F	VMS-3020A	525-120G	VMS-4030A	525-120H
VMS-2015B	525-220E	VMS-2515	525-220F	VMS-3020B	525-220G	VMS-4030B	525-220H
VMS-2015C	525-320E	VMS-2515	525-320F	VMS-3020C	525-320G	VMS-4030C	525-320H

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VMS-2015D	525-420E	VMS-2515	525-420F	VMS-3020D	525-420G	VMS-4030D	525-420H
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## The Measuring Space of VMS Series of Manual Video Measuring System

Travel mm	Model	Code#	X Axis Travel mm	Y Axis Travel mm	Z Axis Standard Travel mm	Z-axis Maximum Cust omized Travel mm
100x100x100	VMS-1010	525-020C	100	100	100	-----
150x100x100	VMS-1510	525-020D	150	100	100	-----
200x150x200	VMS-2015	525-020E	200	150	200	300
250x150x200	VMS-2515	525-020G	250	150	200	300
300x200x200	VMS-3020	525-020G	300	200	200	400
400x300x200	VMS-4030	525-020H	400	300	200	400
500x400x200	VMS-5040	525-020J	500	400	200	400
600x500x200	VMS-6050	525-020K	600	500	200	400