



EZ-SMART Video Measuring System

- EZ-SMART 2.5D is the latest generation of VMM high accuracy machines from ElySION-Tek.
- EZ-SMART combines high-resolution CCD, linear scale and powerful measuring software in a single high performance measuring machine.
- EZ-SMART widely applied in many industries, such as metals, tools, machining, precision manufacturing, automobile components, stamping, aviation work piece, plastic & rubber products, mobile phone industry, PCB board, electronic & semiconductor work piece, plate glass (touch screen & LED board), medical equipment, cutter etc.



▲ Manual Type



▲ CNC Type
(Three Axis Fully Auto)

CNC Type Features / Manual Type Features

- ◆ 00 grade granite base and column with lower coefficient of expansion provide excellent stability and structural rigidity.
- ◆ The specially forged one-piece work table ensures precision movement on X, Y axes and reduces mechanical error.
- ◆ Rolling drive nut achieves backlash friction drive with smooth movement.
- ◆ High-resolution 1/3" color CCD camera and high-definition click zoom lens, ensuring clear and sharp images.
- ◆ Advanced image processing enhances contrast and fidelity with powerful edge detection to ensure accuracy and repeatability.
- ◆ Programmable 8-division LED surface ring illumination and LED parallel contour illumination, to fully meet the different light needs.
- ◆ High precision linear scale with the resolution of 0.001mm.
- ◆ Support WORD, EXCEL, TXT, PDF, BMP, DXF, CAD multi-format report output.
- ◆ Provide SPC statistics and quality control analysis. Support multi-format data input & output for graphic reverse engineering, such as DXF, DWG, IGES, STEP, SAT.
- ◆ All the EZ-SMART VMS series can be installed with Renishaw MCP touch probe for 3D measurement.

Specification

Model No.	Unit	EZ3020-2D / 3D	EZ4030-2D / 3D	EZ5040-2D / 3D
Travel				
X axis	mm	300	400	500
Y axis	mm	200	300	400
Z axis	mm	160	160	160
Stage				
Stage size	mm	456 x 356	610 x 480	710 x 610
Glass Table Size	mm	360 x 260	460 x 360	550 x 430
Stage Load Capacity	KG	20	20	20
Video Measuring System				
CCD		Color, 1/3" CCD Camera	Color, 1/3" CCD Camera	Color, 1/3" CCD Camera
Zoom Lens Magnification		0.7~4.5X	0.7~4.5X	0.7~4.5X
Video Total Magnification		25-225X	25-225X	25-225X
Object View	mm	10.6-1.6	10.6-1.6	10.6-1.6
Working Distance	mm	90	90	90
Resolution	mm	0.001	0.001	0.001
Accuracy	μm	3+L / 200 (L is the measured length, unit: mm)	3+L / 200 (L is the measured length, unit: mm)	3+L/200 (L is the measured length, unit: mm)
Dimension L x W x H	mm	750 x 640 x 900	980 x 720 x 1000	1200 x 850 x 1000
Machine Weight	KG	220	380	500
Illumination		Adjustable LED surface and contour illumination	Adjustable LED surface and contour illumination	Adjustable LED surface and contour illumination
Power Supply		220V ±10% (AC) 50Hz or 110 ±10% (AC) 50Hz	220V ±10% (AC) 50Hz or 110 ±10% (AC) 50Hz	220V ±10% (AC) 50Hz or 110 ±10% (AC) 50Hz

*Due to continuous research and development, all specifications and design characteristics are subject to change without prior notice.



ELYSION TECHNOLOGIES CO., LTD.

No. 88, Sec. 2, Zhongtuo W. Rd., Wufeng Dist.,
Taichung City 41355, Taiwan (R.O.C.)

TEL: +886-4-23391195

FAX: +886-4-23391180

Email: elysion@elysion-tek.com.tw

