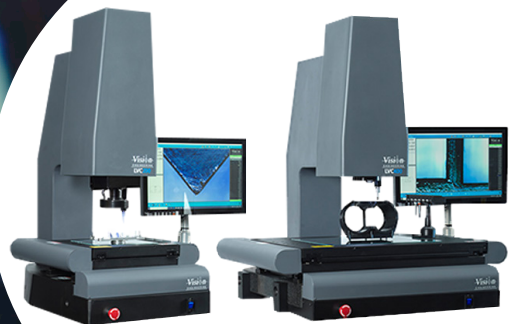


LVC Series
Fully automated video
measurement systems



A close-up photograph of a Vision Engineering LVC200 Coordinate Measuring Machine (CMM). The machine is black with a silver probe arm. A probe is positioned over a complex metal part mounted on a black base. A computer monitor in the background displays a CAD model of the part. The Vision Engineering logo and 'LVC200' are printed on the machine's body.

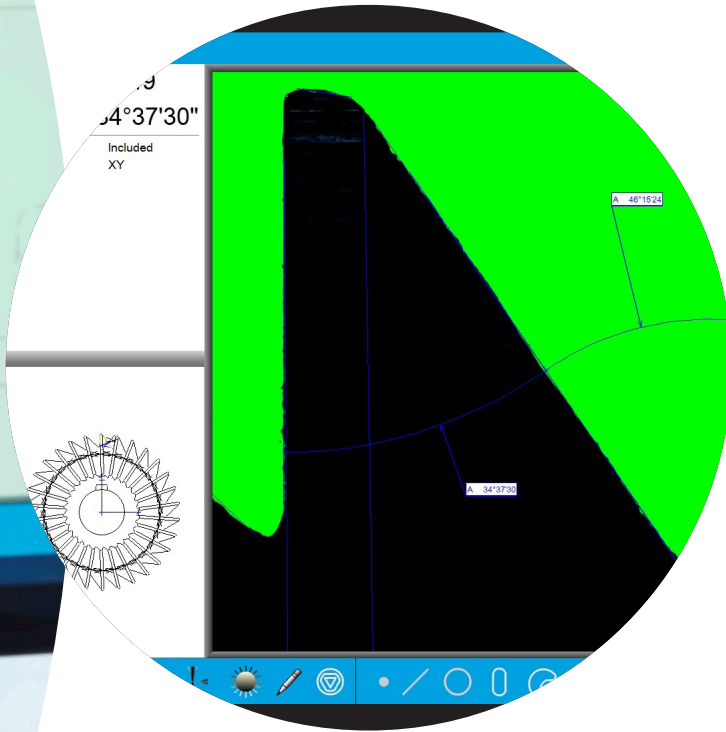
Vision
ENGINEERING
LVC200

Key features

- Up to 16" x 12" x 8" measurement
- Motorized zoom lens
- Easy to use M3 software
- 0.1 μm encoder resolution
- Touch probe and probe rack options

*High resolution digital
image for precise video
edge detection*

VISION ENGINEERING FOCUSED ON QUALITY



SAVING TIME + REDUCING COSTS

LVC Series measurement systems from Vision Engineering offer high precision and full automation at a competitive price. The uncluttered layout of the software and system performance allow the LVC Series to handle a wide range of modern industrial measurement applications, including precision machining, casting, plastic molding, electronics and medical device manufacture.

Faster measurement

Measurement routines can be automated on the new LVC Series of 3-axis CNC systems, resulting in a significant reduction in measurement time.

Programmable magnification changes enable uninterrupted faster measurement routines.

Multiple parts can be loaded onto the stage and measured easily and automatically in a single program.

The system is pre-programmable or can be joystick-driven for quick, one off measurements. A full set of results and inspection reports are generated simultaneously.

Intuitive software

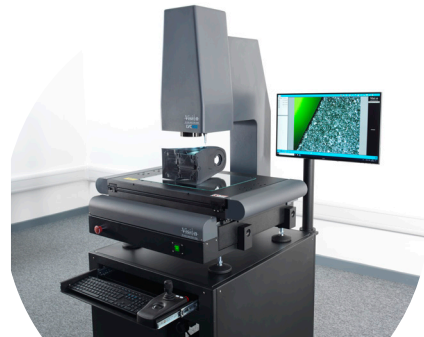
LVC Series comes complete with trusted Metlogix M-Series software. The user-friendly package delivers advanced functionality and comprehensive reporting capabilities such as:

- Feature measurements and constructions with geometric tolerancing
- Programmable illumination
- DXF import/export and digital overlays
- Advanced edge detection and autofocus
- Simple SPC and data export
- Stitching to improve image reporting and quick measurements in field of view
- Pattern find to automatically locate and align parts
- Multi-feature finder tool
- Formula results via a calculation feature
- Thread and gear measurement option

Made To Measure

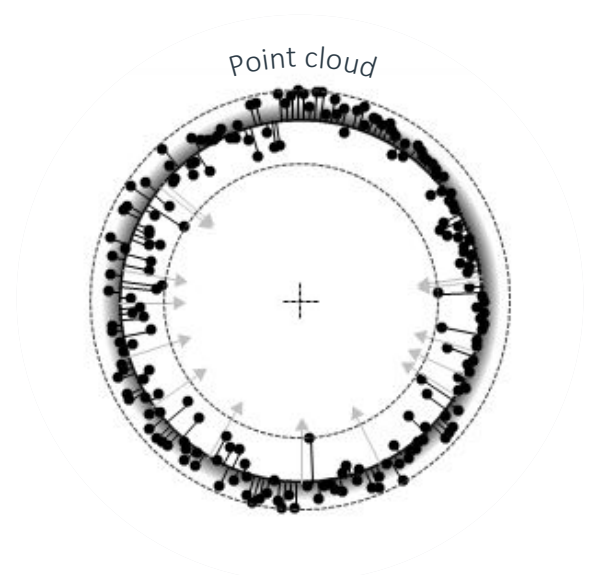
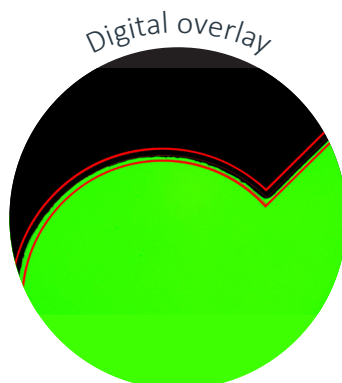
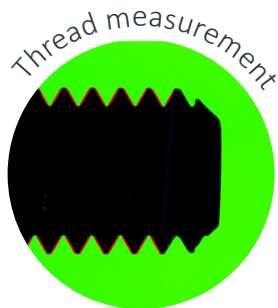
Systems can be configured with different optics and illumination options in order to meet customers' measurement needs.

Higher magnification, a larger field of view, and flat or collimated backlight options allow the LVC series to offer the enhancements that our customers are seeking to achieve.

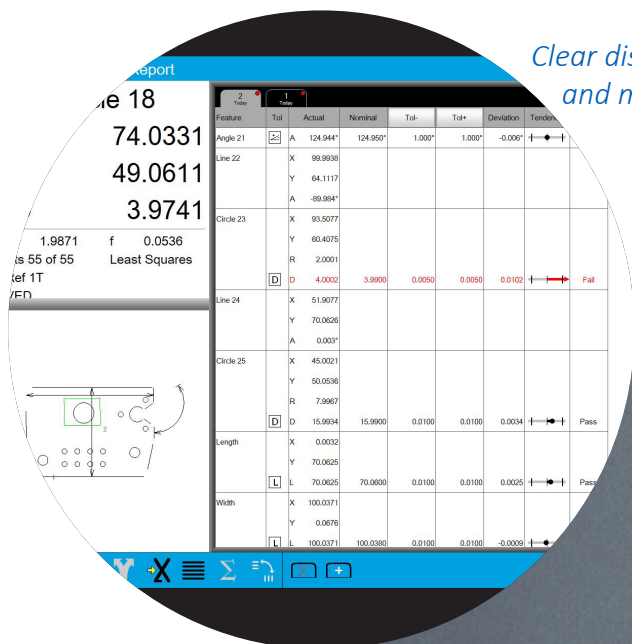


VERSATILITY + EASE OF USE

LVC Series measuring systems have the capacity to meet the needs of the most demanding manufacturing environments. With the addition of simple, yet powerful software, LVC Series offers a flexible solution, meeting the requirements of a wide range of measurement tasks.



Clear display of feature details
and measurement results



Vision
ENGINEERING
LVC400

TECHNICAL INFORMATION

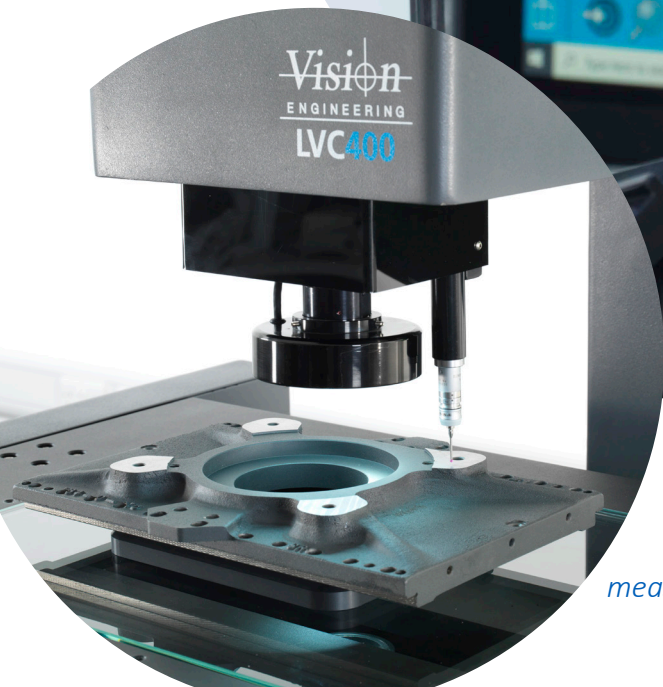
SPECIFICATIONS		LVC400			LVC200		
MODEL		LVB002	LVB003	LVB010	LVB005	LVB007	LVB009
Measuring Capacity		16" x 12" x 8"			8" x 6" x 8"		
		400mm x 300mm x 200mm			200mm x 150mm x 200mm		
Optics	7-position motorized zoom	✓		✓	✓		✓
	10-position motorized zoom		✓			✓	
Metrology Camera				USB3 Color Camera			
Maximum Load				55lbs (25kg)			
Dimensions (W x D x H)		31" x 36" x 43"			21" x 28" x 43"		
		789mm x 915mm x 1087mm			536mm x 705mm x 1096mm		
Machine Weight		772lbs (350kg)			397lbs (180kg)		
Base Material		Granite			Aluminum		
Touch Probe Option		✓			✓		
Probe Changer Option		✓					
Measurement Accuracy (X, Y)		E ₂ = 2.8 + (8L/1000) μm*			E ₂ =2.8 + (8L/1000) μm*		
Measurement Accuracy (Z)		E ₁ = 3 + (10L/1000) μm**			E ₁ = 4 + (10L/1000) μm**		
Encoder Resolution		0.1 μm			0.1 μm		
FIELD OF VIEW (FOV)							
Low Zoom		.49" x .31"	.7" x .45"	.42" x .30"	.49" x .31"	.71" x .45"	.42" x .30"
		12.5mm x	18mm x	10.6mm x	12.5mm x	18mm x	10.6mm x
		7.9mm	11.4mm	7.7mm	7.9mm	11.4mm	7.7mm
High Zoom		.11" x .07"	.07" x .04"	.11" x .07"	.11" x .07"	.07" x .04"	.11" x .07"
		2.9mm x	1.8mm x	2.8mm x	2.9mm x	1.8mm x	2.8mm x
		1.8mm	1.1mm	1.8mm	1.8mm	1.1mm	1.8mm
PROGRAMMABLE ILLUMINATION							
Quadrant LED Ring Light		✓	✓	✓	✓	✓	✓
High parallelism flat back light		✓	✓		✓	✓	
Collimated LED back light				✓			✓
NOTES							

Measurement uncertainty is determined in accordance with ISO 10360 - Part 7

*L = length in mm, using controlled conditions.

** with optional touch probe

Vision
ENGINEERING
LVC400



*Contact
measurement option*

VISION ENGINEERING + OUR DIFFERENCE

Vision Engineering Ltd. has been designing and manufacturing high quality ergonomic microscopes, digital instruments, inspection and measuring systems for over 60 years.

Innovation

With a philosophy of design innovation, Vision Engineering holds world patents for a number of optical / digital techniques, significantly enhancing viewing ergonomics and enabling customer quality and productivity improvements.

To see our focused quality, please contact your Vision Engineering branch, local authorized distributor, or visit our website: visioneng.us

Sales Partner



Disclaimer - Vision Engineering Ltd. has a policy of continuous development and reserves the right to change or update materials or the specification of any products. The information contained within this brochure is subject to change at any time. The production or distribution of any of the products described may be discontinued without notice. EO&E: Errors and omissions accepted.

Quality

Vision Engineering prides itself on quality products, electronics, mechanics and optics and is certified for the quality management system ISO 9001:2015. Quality is as important to us as it is to our customers. Our systems have proved themselves many times over and are chosen by the world's leading companies.

Global

Vision Engineering has manufacturing and design facilities in the UK and USA, and sales and support offices throughout Europe, the Americas, the Far East, and Asia. We provide our customers with close technical and service support globally.

Vision Engineering Ltd. (UK Manufacturing & Commercial)

The Freeman Building, Galileo
Drive, Send, Surrey, GU23 7ER, UK
T +44 (0) 1483 248300
E generalinfo@visioneng.co.uk

Vision Engineering Ltd. (Italia)

Via G. Paisiello 106
20092 Cinisello Balsamo MI, Italia
T +39 02 6129 3518
E info@visioneng.it

Vision Engineering (South East Asia)

P-03A-20, Impian Meridian,
Jalan Subang 1, USJ 1,
47600 Subang Jaya,
Selangor Darul Ehsan, Malaysia
T +604-619 2622
E info@visioneng.asia

Vision Engineering (Mexico)

T 800 099 5325
E informx@visioneng.com

Vision Engineering Inc. (NA Manufacturing & Commercial)

570 Danbury Road,
New Milford, CT 06776, USA
T +1 (860) 355 3776
E info@visioneng.com

Vision Engineering Ltd. (France)

ZAC de la Tremblaie,
Av. de la Tremblaie
91220 Le Plessis Paté, France
T +33 (0) 160 76 60 00
E info@visioneng.fr

Vision Engineering (China)

Room 904B, Building B, No.970,
Nanning Road, Xuhui Vanke
Center Shanghai, 200235,
P.R. China
T +86 (0) 21 5036 7556
E info@visioneng.com.cn

Vision Engineering (Brazil)

E info@visioneng.com.br

Vision Engineering (Latin America)

E informx@visioneng.com

Vision Engineering Ltd. (Central Europe)

Anton-Pendele-Str. 3,
82275 Emmering, Deutschland
T +49 (0) 8141 40167-0
E info@visioneng.de

Nippon Vision Engineering (Japan)

272-2 Saedo-cho, Tsuduki-ku,
Yokohama-shi, Kanagawa
224-0054, Japan
T +81 (45) 935 1117
E info@visioneng.jp

Vision Engineering (India)

T + 91 (0) 80-5555-33-60
E info@visioneng.co.in



FM 557119

Vision Engineering Ltd.
has been certified for the
quality management system
ISO 9001:2015 and calibration
accreditation ISO 17025:2017.