



PRECISION AUTOMATED FEATURE MEASUREMENT

FASTER, EASIER AND MORE COST EFFECTIVE THAN EVER BEFORE



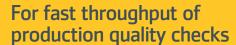
VECTRO. DESIGNED FOR AUTOMATION

Vectro automates the advanced non-contact feature measurement capabilities of the GapGun Pro, Third Dimension's bestselling handheld laser measurement system.

It's simpler and faster delivering increased levels of accuracy and excellent returns on investment.







• Vectro and sensor mounted on a robot arm move to enable measurement of a part.

For high precision break sharp edge applications

- Vectro and sensor mounted on a fixture, measuring a fixed part.
- Vectro and sensor mounted on a fixture, with a robot bringing the part to be measured.



For offline metrology testing for research and development

• Vectro and sensor mounted in any fixtured or robotic configuration.

VERSATILE AND COMPATIBLE

Vectro works either robot mounted or in fixtured applications. The system includes a mounting plate that can be attached to your choice of robot.





REDUCE COSTS, IMPROVE QUALITY AND INCREASE PRODUCTIVITY

Vectro improves productivity by enabling greater throughput, cutting inspection costs and reducing rework. All of this with the added benefit of improved quality.



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Fast and efficient

Vectro measures quickly and automatically, allowing more to be manufactured every hour, without sacrificing quality.

Accurate, repeatable and reliable

Consistent positioning with fixtured or robotically guided measurements eliminates human error and ensures accurate results every time. VChange sensors come with full calibration certificates, traceability and a 3 year warranty.

Automatic manufacturing decisions

Vectro automates checking of parts against their dimensional specification with real-time go/no-go decisions, or statistical analysis.

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Vectro is compatible with the full range of VChange sensor heads, allowing the measurement of a diverse range of feature shapes, sizes and surface types. For even greater versatility, Vectro is tool changer compatible to dynamically switch sensor heads.

Modular and versatile

05

Easy to integrate

Vectro can be built into any application with Third Dimension's easy-to-use Link integration software. Simple commands trigger measurements and retrieve results, leaving more time to focus on the production process.

06

Dynamic user interface

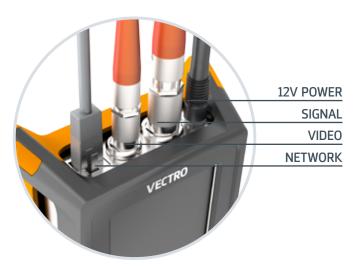
The Vectro display presents live profile information and measured values, making it even easier to focus on improving the quality of products.



Automated feature measurement from a fully integrated system.

THE VECTRO BASE SYSTEM INCLUDES:

- Vectro data collector
- Power converter
- Head mount
- GapGun 7.6 or later software to run on Vectro
- VChange sensor head(s) as required
- Controller to head mount cables
- Mains power leads
- Software pack(s) as required







SENSOR TYPES

A vast range of measurements can be collected using just one system and Third Dimension's extensive range of interchangeable VChange sensors:

1. SUPER HIGH RESOLUTION: 7mm

Field of view: 6.5mm (0.26") RET resolution: 3µ (0.0001")

2. HIGH RESOLUTION: 15mm

Field of view: 25mm (1.0") Max gap & flush: 10mm (0.4") RET resolution: 11µ (0.0004")



3. STANDARD: 40mm

Field of view: 55mm (2.2") Max gap & flush: 25mm (1") RET resolution: 24µ (0.0010")



4. WIDE ANGLE: 80mm

Field of view: 90mm (3.5") Max gap & flush: 50mm (2") RET resolution: 40µ (0.0016")



VECTRO TECHNICAL SPECIFICATION

Product Code	GG16-0614	
Power Rating	6W (12V @ 0.5A)	
Screen	97mm (3.8") Daylight readable, full colour, high resolution LCD touchscreen 640 x 480px	
User interface	Click and drag touchscreen, trigger and power/reset button	
Feedback	Audio output and Haptic feedback	
Storage capacity	2GB internal storage	
Peripheral devices	USB 2.0 port	
IP Rating	IP 50	
Ethernet	100MBPS Fast Ethernet (100BaseTX)	
Operating Temperature	0 to 40°C (32 to 104°F)	
Storage temperature	-20°C to 60°C (-4 to 140°F)	
Size	116 x 134 x 46.5mm (4.5 x 5.3 x 1.8") L x W x D	
Weight	460g (16oz)	
Software	GapGun 7.6 or later (included)	
HEAD MOUNT		
Product code	GG16-1488	
Compatibility	Any VChange sensor: FOV7, FOV15, FOV40 or FOV80	
IP Rating	IP50	
CONTROLLER TO HEAD MOUNT (CABLES	
Length	3000mm	
Connector type	2000mm LEMO locking connectors	
Length Connector type COMPATIBLE PC SOFTWARE GG17-0056	SPC3d Software Pack: for configuring Virtual measurement tools, data logging, reviewing measurements	→ SPC3d
Connector type COMPATIBLE PC SOFTWARE	LEMO locking connectors SPC3d Software Pack: for configuring Virtual	→ SPC3d SINLINE
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WANT TO KNOW HOW VECTRO CAN HELP REDUCE COSTS AND IMPROVE QUALITY?

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EMAIL: info@third.com VISIT: www.third.com



f ThirdDim

Vectro systems are designed, developed and manufactured by:



Authorised dealer