

# CMM Vision Probe



## Features:

- 3 mega-pixel colour sensor
- 16 white LED light ring
- 50mm optics standard
- 5 micron pixels
- 110mm working distance
- Autojoint, TKJ compatible
- High speed USB 2.0
- Full autochange capability, optional
- Autofocus with Deva CMM controller
- Compatible with Deva vision products
- Custom application software functions
- Software extendable user interface

## Applications:

Non-contact measuring machines

Automatic inspection machines

Machine vision applications

Process / Quality Control

## CMM Vision Probe

The Deva 036 CMM vision probe combines a high resolution image sensor, compact optics and flexible LED light ring in one complete solution.

Retrofitting it to your CMM is easy since it can be mounted via most common probe connection systems including, Autojoint and TKJ.

Furthermore the Deva 036 is fully software compatible with other Deva vision products such as the Deva 028 image sensor and Deva 022 light ring.

### Image Sensor

- Multiple, independently configurable image capture streams operate simultaneously across one or more cameras.
- Variable frame rate image capture streams or hardware/software event driven still image capture.
- Gain priority, shutter priority and combined gain/shutter exposure modes automatically adjust for changing light conditions.
- High quality image rendition is ensured using built-in colour compensation modes for automatic adjustment of image contrast and brightness.
- Panning and zoom operation using the flexible windowing capabilities of the image sensor
- Pixel binning modes allow control of image resolution to further increase image capture times and frame rates
- Advanced auto-focus and high precision sharpness based position measurement, when integrated with Deva CMM control hardware and software.

### Lighting

Offering individual control of LED intensity, the Deva036 light ring is able to instantly direct light onto the subject from any angle ensuring that key features and edges are enhanced allowing for faster and more accurate measurements.

### Optics

The Deva 036 comes as standard with an f2.8 - f16 lens with a 50.2 mm focal. Each pixel in the image represents an area 5um square on the object.

The lens mount is M39 x 1/26th" which allows alternate lenses to be used this in turn provides for different magnifications and working areas.

### Quality

We aim to provide our customers with the highest quality products and customer support. Our team of experienced engineers are available to discuss your specific applications.

Our products are designed and manufactured in the UK and include a 36 month, no quibble warranty.



### Specification

<b>Image Sensor</b>	CMOS bayer mosaic RGB
<b>Image Resolution</b>	2048 x 1536 (QXGA)
<b>Frame rate</b>	6fps QXGA, 20fps XGA, 40fps VGA, 90fps 1/4 VGA
<b>Pixel Size (image)</b>	3.2um x 3.2um
<b>Pixel Size (object)</b>	5.05um x 5.05um
<b>Working Distance</b>	110mm
<b>Field of View</b>	10.3 x 7.8mm
<b>Light Ring</b>	16 white LEDs
<b>Connection</b>	USB 2.0
<b>Power Supply</b>	USB bus powered
<b>Supply Current</b>	< 500ma
<b>Weight</b>	300g
<b>Size</b>	80 x 80 x 115mm
<b>Mounting</b>	Autojoint, Shank



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