

CentrePoint Variable Stereo Angle Illuminator for Mantis Elite

Mantis Elite is a patented optical viewer, in use in many tens of thousands of installations worldwide. Mantis is used for quality control, inspection, manipulation, preparation & finishing tasks and sustained & repetitive operations. Mantis reduces body and eye strain and increases accuracy, speed and production.

A new, unique illumination option is now available for Mantis Elite. It has been specifically designed to solve the problems of inspecting bores, pipes, tubes, slots, holes and connectors. These features can be machined or formed in metal and ceramics, molded into rubber, plastics and many other materials. Getting light into and out of a narrow, dark feature, in order to inspect the sides or bottom is often a problem.



Easy to fit CentrePoint Illuminator.
A unique and innovative solution to a widespread problem



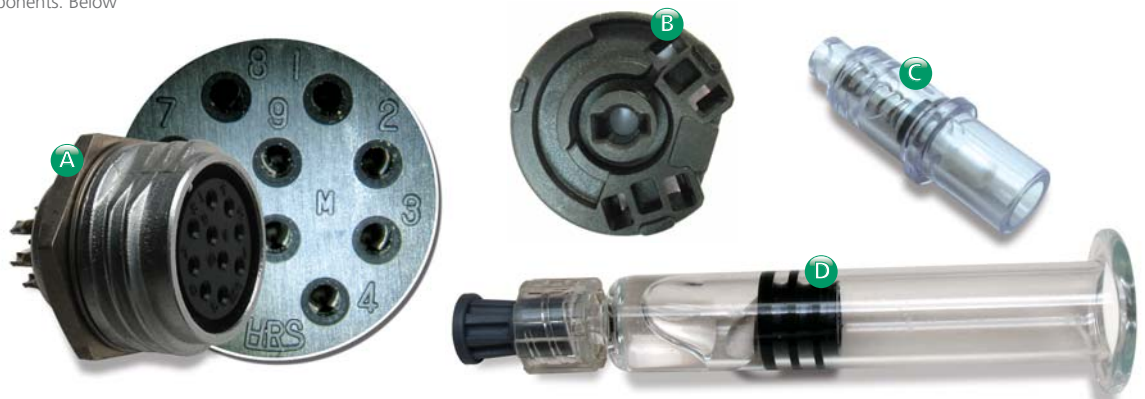
Mantis Elite fitted with the CentrePoint Illuminator

CentrePoint is a coaxial (on the same axis as the optical path) or episcopic (through the lens) illuminator.

Using a unique optical layout and bright, cool, long life LED illumination, the CentrePoint Illuminator projects light through the lens and into the hole or bore. The vertical light illuminates the surfaces of the internal features far more than conventional light, allowing the operator to see structures in detail.

The CentrePoint Illuminator can be used to improve the inspection process of many components. Below are just a few examples:

- A** Metal or plastic components such as multi-pin connectors
- B** Low contrast materials
- C** Catheters
- D** Syringe bodies

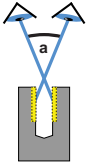


Other significant features:

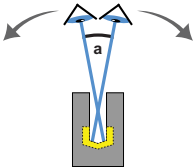
- Can be used with conventional Mantis LED array lighting
- Easy to use Iris control/diaphragm, allowing only the illumination of the subject feature, reducing flare or shine from other surfaces, which can affect optical resolution.
- Can be used with x4, x6, x8, and x10 magnification. Each objective lens has specific magnification, working distance and depth of focus values.

How it works...

The CentrePoint Illuminator interfaces with the patented Mantis Inter Pupillary Distance Control. Designed to cater for different eye centre spacing, the alignment can be used to change the stereo angle (see **a** below) to see more of very narrow bores, pipes, tubes, slots, holes and connectors. A feature unique to CentrePoint and not available on any conventional microscope.



Without the CentrePoint Illuminator, viewing some features can be extremely difficult, if not impossible.



With CentrePoint, better illumination is provided and the IPD is adjusted to allow the best view of internal features.



Vision Engineering has been providing innovative and ergonomic optical solutions to its worldwide customer base since 1958.

For more information...

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Technical Details

Optical Information		
Lens Compatibility	Working Distance	Field of View
x4	60mm	Ø32
x6	30mm	Ø23
x8	18mm	Ø17
x10	18mm	Ø13

Weight

CentrePoint Illuminator	Packed	Unpacked
	1.5kg	1.0kg

Power Supply

5V, 2.6A complete with worldwide adaptors (also includes Illuminator to Head connect cable for simultaneous surface and episcopic lighting).

Distributor

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