

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



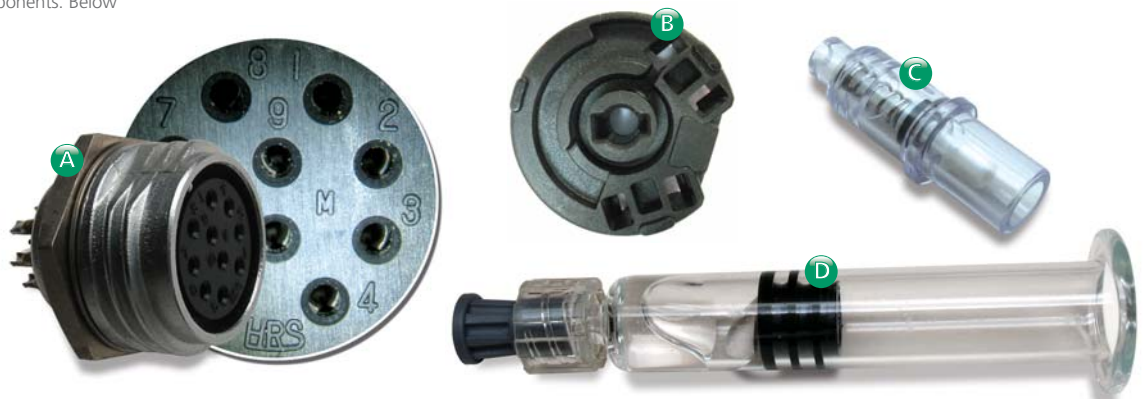
Mantis Elite fitted with the CentrePoint Illuminator

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

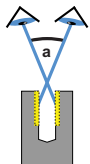


Other significant features:

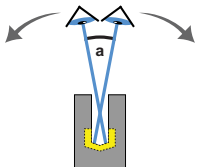
- Can be used with conventional Mantis LED array lighting
- Easy to use Iris control/diaphragm, allowing only the illumination of the subject feature, reducing flare or shine from other surfaces, which can affect optical resolution.
- Can be used with x4, x6, x8, and x10 magnification. Each objective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

Vision Engineering has a network of offices and technical distributors around the world. For more information, please contact your Vision Engineering branch, local authorised distributor, or visit our website.

Vision Engineering Ltd.
(Manufacturing)
Send Road, Send, Woking,
Surrey, GU23 7ER, England
Tel: +44 (0) 1483 248300
Fax: +44 (0) 1483 223297
Email: generalinfo@visioneng.com

Vision Engineering Inc.
(Manufacturing & Commercial)
570 Danbury Road, New Milford,
CT 06776 USA
Tel: +1 (860) 355 3776
Fax: +1 (860) 355 0712
Email: info@visioneng.com

Vision Engineering Ltd.
(Central Europe)
Anton-Pendele-Str. 3,
D-82275, Emmering, Germany
Tel: +49 (0) 8141 40167-0
Fax: +49 (0) 8141 40167-55
Email: info@visioneng.de

Vision Engineering Ltd.
(France)
1 Rue de Terre Neuve, ZA Courtaboeuf,
91967 Les Ulis Cedex, France
Tel: +33 (0) 164 46 90 82
Fax: +33 (0) 164 46 31 54
Email: info@visioneng.fr

Vision Engineering Ltd.
(Commercial)
Monument House, Monument Way West,
Woking, Surrey, GU21 5EN, England
Tel: +44 (0) 1483 248300
Fax: +44 (0) 1483 248301
Email: generalinfo@visioneng.com

Vision Engineering Inc.
(Commercial West Coast USA)
745 West Taft Avenue, Orange,
CA 92865 USA
Tel: +1 (714) 974 6966
Fax: +1 (714) 974 7266
Email: info@visioneng.com

Nippon Vision Engineering
(Japan)
272-2 Saedo-cho, Tsuduki-ku,
Yokohama-shi, 224-0054, Japan
Tel: +81 (0) 45 935 1117
Fax: +81 (0) 45 935 1177
Email: info@visioneng.jp

Vision Engineering Ltd.
(Italy)
Via Cesare Cantù, 9
20092 Cinisello Balsamo MI, Italy
Tel: +39 02 6129 3518
Fax: +39 02 6129 3526
Email: info@visioneng.it

Vision Engineering Ltd
(China)
11J, International Ocean Building,
720 Pudong Avenue, Shanghai,
200120, P.R. China
Tel: +86 (0) 21 5036 7556
Fax: +86 (0) 21 5036 7559
Email: info@visioneng.com.cn

Vision Engineering
(India)
Tel: +91 (022) 2613 0699
Fax: +91 (022) 2610 3845
Email: info@visioneng.co.in

Distributor

Visit our multi-lingual website:

www.visioneng.com

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
1.5kg

Unpacked
1.0kg

Power Supply

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