



## e-con Systems India Pvt Ltd

7<sup>th</sup> Floor, RR Tower – IV,  
Super A-16 & A-17, Thiru-Vi-Ka Industrial Estate,  
Guindy, Chennai - 600 032.  
[www.e-consystems.com](http://www.e-consystems.com)

### See3CAM\_12CUNIR



## Lens Datasheet

**Revision 1.1**

Tuesday, October 28, 2014



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## See3CAM\_12CUNIR

### 1 Revision History

Rev	Date	Description	Author
1.0	24-Oct-2014	Initial Draft	Hardware Team
1.1	28-Oct-2014	Modified Key feature	Hardware Team



## 2 Description

The lens used in See3CAM\_12CUNIR is high resolution, 1/3" format, multi-mega pixel, miniature wide angle lens.

### 2.1 Key Features

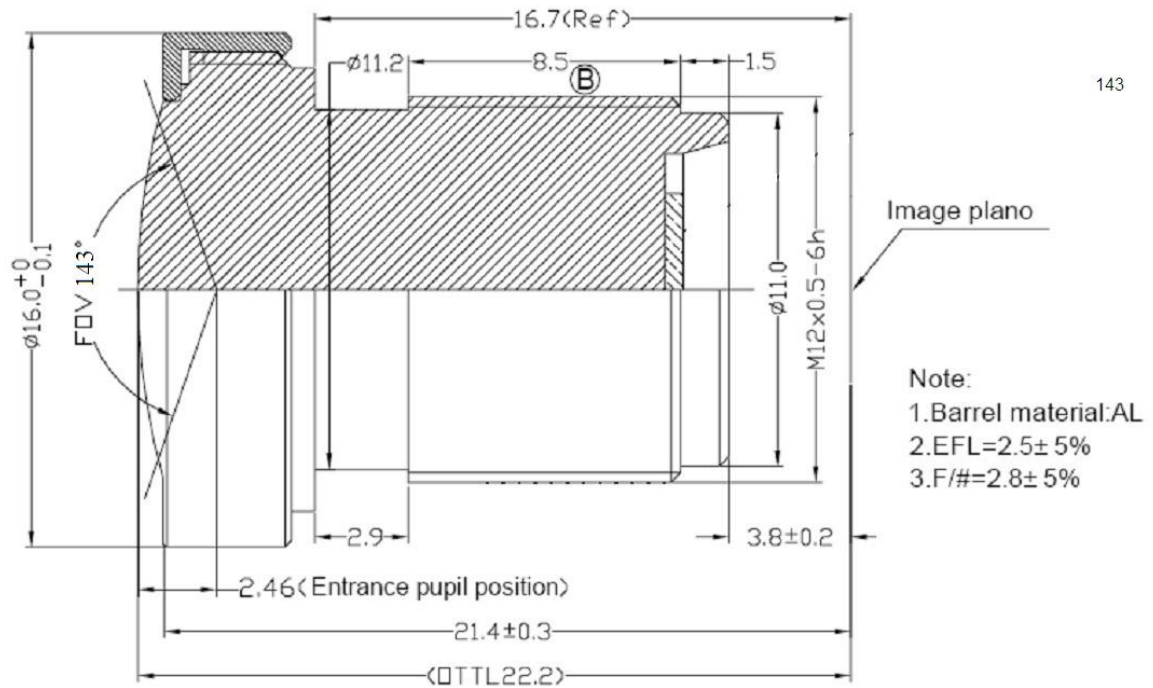
- ✓ Image circle for use with up to 1/3" format sensors, with a DFOV of 143°.
- ✓ Allows both visible and NIR (without filters)
- ✓ Available with filter (optional) - Visible block & NIR pass Filter.
- ✓ High image quality for HD video
- ✓ All glass and metal design for optimal thermal and environmental stability.
- ✓ Compact size.

## 3 Optical Specifications

Description	Miniature wide-angle lens
Imager Format	1/3"
Focal Length (mm)	2.5
F/#	2.8
Image Circle	6.0 mm
Field of View	143° DFOV on 1/3"
F-θ distortion	~ 6.5 %
Relative Illumination	80 %
TTL	~ 22 mm
Design MTF @ 100lp/mm	~ 70 % on-axis Sagittal ~ 68 % at +/-70° Tangential ~ 40 % at +/-70°
Chief Ray Angle	~ 20°
Filter options (optional)	Available with Near IR pass & Visible Block



## 4 Mechanical Dimensions



## 5 Conclusion

This document describes the optical specifications of the lens used in See3CAM\_12CUNIR. For more information, please contact [sales@e-consystems.com](mailto:sales@e-consystems.com)

