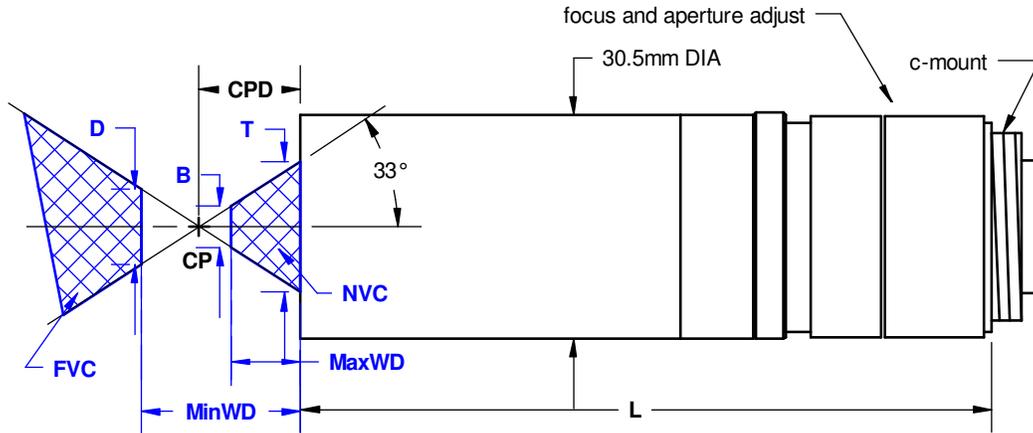


Hyper-Eye™ HA-HE-25nnnn Hypercentric Lens Specifications

For Hyper-Eye lenses, the following general camera format definitions are used:

1/4" format: 3.2mm x 2.4mm; 1/3" format: 4.8mm x 3.6mm; 1/2" format: 6.4mm x 4.8mm
 2/3" format: 8.53mm x 6.4mm; 1/1.8" format: 7.04mm x 5.28mm



When used in normal mode, Hyper-Eye hypercentric lenses provide a converging view, as if aimed at a single point called the Convergence Point (**CP**). The distance to this point is called the Convergence Point Distance (**CPD**).

The volume that can actually be well-imaged is contained within an imaginary truncated cone called the Near View Cone (**NVC**). This is the blue hatched region closest to the lens. The dimensions of this region are **T**, **B** and **MaxWD**. These will vary for different lens models.

When used in long-standoff borescope or "peephole" mode, think of there being a tiny, virtual lens at **CP**. The volume that can be well-imaged in this mode is contained by a truncated cone called the Far Viewing Cone (**FVC**). This is the blue hatched region farthest from the lens. It extends from **MinWD** to infinity. The diameter of this cone at **MinWD** is **D**.

HYPER-EYE HA-HE-25nnn (High Angle; monochrome. Specs are for 660nm¹)			
Model	HA-HE-258512	HA-HE-258516	HA-HE-257516
Camera format (Max. image DIA)	1/3" (3.4mm)	1/2" (4.6mm)	2/3" (5.3mm) ²
L	117mm	104.5mm	94mm
CPD	13.8mm	13.8mm	13.8mm
T	17.8mm	17.8mm	17.8mm
B	4.6mm	5.0mm	5.5mm
MaxWD – hypercentric limit	10.2mm	9.9mm	9.5mm
D	5.4mm	8.2mm	10.1mm
MinWD (spacer for close focus)³	18.0mm (1.5mm)	20.2mm (5mm)	21.6mm (5mm)

¹ Lenses may be used with other monochrome wavelengths, but only one color at a time.

² 1/1.8" detectors have a short dimension of almost 5.3mm. These can be used, but not quite to full field.

³ For far focusing, shorter spacers (or none at all) should be used.