

Fixed Focal Length SWIR Imaging Lens Data Sheet



Description

Beck Optronic Solutions offers a range of high performance fixed focal length lenses suitable for use in the SWIR (0.7-1.7 μ m) waveband.

The lenses and thin film coatings have been designed specifically for the SWIR waveband. Some suppliers offer “SWIR” lenses that are in fact visible waveband optics with only coatings optimised for SWIR. The BOS range of lenses is designed from first principles, with optical glasses as well as coatings optimised for operation in the SWIR waveband. Importantly, the performance is validated through SWIR waveband MTF testing.

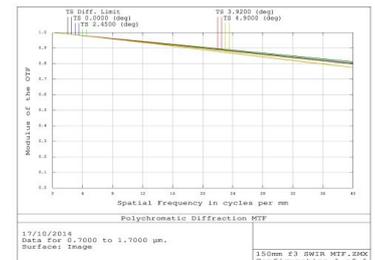
These lenses are ideal for many applications including security, solar cell, fruit and vegetable inspection, quality control, machine vision and biomedical imaging.

Designed with an image format of 25.6mm diameter, they are suitable for use with all the major area and linear array cameras available on the market.



Resolution approaching the diffraction limit.

- Working distance 1m to infinity
- Distortion <2%
- ROHS compliant
- Continuous aperture adjustment
- OEM Styling available



Specifications

Part number	Focal length	F/#	Mount	Length	Diameter	Filter thread
D1811-01	25mm	1.4 – 22	C-Mount*	65mm	58mm	M37 x 0.5
D1811-02	35mm	1.4 – 22	C-Mount*	110mm	65mm	M43 x 0.75
D1811-03	50mm	1.8 – 22	C-Mount*	125mm	75mm	M52 x 1
D1811-04	75mm	2.0 – 22	C-Mount*	188mm	100mm	M62 x 1
D1811-05	100mm	3.0 – 22	C-Mount*	130mm	50mm	M37 x 0.5
D1811-06	150mm	3.0 – 22	C-Mount*	180mm	65mm	M52 x 1

* CS-Mount also available

About Beck Optronic Solutions

BOS has a reputation for excellence in design and manufacture of precision optics that can be traced back over 175 years. Based near London, UK, BOS delivers complex, integrated electro-optic systems for defence and commercial use across the electromagnetic spectrum from UV to LWIR.

For pricing or further information please contact us at:

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