

SirZ

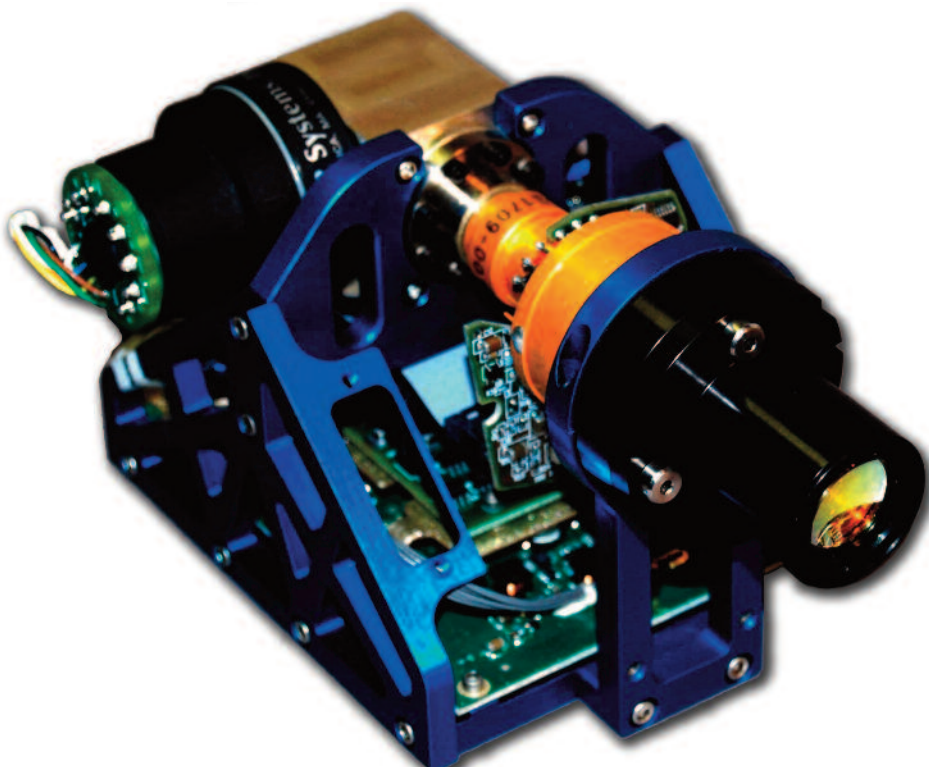
MirZ

LirZ

BirZ

## **BirZ 23 BROADBAND 23mm F/4 Fixed Focal Lens**

BirZ Series, Suitable for 1-5 $\mu$ m Multispectral Detectors (Broadband)



### **Key Features:**

- Extremely compact size
- Allows both SWIR and MWIR performance
- Intended application for use as a visual aid for pilots
- Fits popular cameras, such as the FLIR Photon HRC, SCD Pelican and more

## BirZ 23 Specifications:

### Optical Specifications (nominal values)

<b>Focal Length</b>	23mm
<b>F/#</b>	f/4
<b>Spectral Range</b>	1.5 - 5 microns
<b>Image Format</b>	640 x 512 pixels, 15 micron pixel size
<b>Image Diagonal</b>	12.3mm
<b>Back Focal Length</b>	29 mm +/- 3 mm
<b>Cold Stop to FPA Distance</b>	19.08mm
<b>Average Transmission (All elements AR coated)</b>	> 80%
<b>Horizontal FOV</b>	22.66°
<b>Distortion</b>	4%
<b>On-Axis MTF</b>	> 40% at 25 lp/mm
<b>MOD</b>	5 meters

### Mechanical Specifications

<b>Max Dimensions</b>	Length = 41.2mm, Front OD = 44.5mm
<b>Focus/Zoom Mechanisms</b>	Manual
<b>Zoom Time (WFOV to NFOV)</b>	N/A
<b>Through-Zoom Boresight</b>	N/A
<b>Weight</b>	113 grams
<b>Mount</b>	Customized to Specification
<b>Operating Temperature</b>	- 30°C to + 65°C
<b>Storage Temperature</b>	- 40°C to + 80°C

## BirZ 23 Field Of View Data:

### FOV (23mm)

<b>HFOV</b>	320x240	480x384	640x512
<b>30 microns</b>	22.66		
<b>25 microns</b>	19.18	27.55	34.82
<b>15 microns</b>	11.79	17.38	22.66