

## INFRARED CAMERA LENSES

Gholographic Company can offers variety of Infrared Lens for defense, FLIR system, and Surveillance application.

Our premier range of IR lens for cooled and uncooled camera system includes:

- SWIR Lens (1-5um)
- MWIR Lens (2-5um)
- MWIR Lens (3-5um)
- LWIR Lens (8-12um)



Besides above, we also offers high end sophisticated lens includes:

- IRDB Lens Double Band (4.3um--5.4um,7.8-8.8um)
- IR2FV Lens Double Field View
- IR Zoom Lens
- IR Athermal Lens
- Motorized & Computerized

### SWIR Lens (1-5um)

| Part No.                      | Focal Length (mm) | F/# (mm) | Wavelength(um) | Focus Type          |
|-------------------------------|-------------------|----------|----------------|---------------------|
| <a href="#">IRS0252015.36</a> | 25mm              | 2        | 1um--5um       | Manually adjustable |

### MWIR Lens (2-5um)

| Part No.                     | Focal Length (mm) | F/# (mm) | Wavelength(um) | Focus Type          |
|------------------------------|-------------------|----------|----------------|---------------------|
| <a href="#">IRM050201024</a> | 50mm              | 2        | 2um--5um       | Manually adjustable |

### MWIR Lens (3-5um)

| Part No.                    | Focal Length (mm) | F/# (mm)               | Wavelength(um) | Focus Type          |
|-----------------------------|-------------------|------------------------|----------------|---------------------|
| <a href="#">IRM1X</a>       | 45mm              | 3.3(NA:0.15)           | 3um--5um       | Manually adjustable |
| <a href="#">IRM05020320</a> | 50mm              | 2                      | 3um--5um       | Manually adjustable |
| <a href="#">IRM5X</a>       | 55mm              | 2.0-4.0(NA:0.125-0.25) | 3um--5um       | Manually adjustable |
| <a href="#">IRM10020320</a> | 100mm             | 2                      | 3um--5um       | Manually adjustable |

### LWIR Lens (8-12um)

| Part No.                    | Focal Length (mm) | F/# (mm) | Wavelength(um) | Focus Type          |
|-----------------------------|-------------------|----------|----------------|---------------------|
| <a href="#">IR00920160</a>  | 9mm               | 2        | 8um--12um      | Manually adjustable |
| <a href="#">IR01020160</a>  | 10mm              | 2        | 8um--12um      | Manually adjustable |
| <a href="#">IR02510384G</a> | 25mm              | 1        | 8um--12um      | Manually adjustable |
| <a href="#">IR02909160</a>  | 29mm              | 0.9      | 8um--12um      | Manually adjustable |

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|                                   |       |     |           |                     |
|-----------------------------------|-------|-----|-----------|---------------------|
| <a href="#"><u>IR03510160</u></a> | 35mm  | 1   | 8um--12um | Manually adjustable |
| <a href="#"><u>IR03510384</u></a> | 35mm  | 1   | 8um--12um | Manually adjustable |
| <a href="#"><u>IR04008320</u></a> | 40mm  | 0.8 | 8um--12um | Manually adjustable |
| <a href="#"><u>IR05008320</u></a> | 50mm  | 0.8 | 8um--12um | Manually adjustable |
| <a href="#"><u>IR07510320</u></a> | 75mm  | 1   | 8um--12um | Manually adjustable |
| <a href="#"><u>IR10010320</u></a> | 100mm | 1   | 8um--12um | Manually adjustable |
| <a href="#"><u>IR10020640</u></a> | 100mm | 2   | 8um--12um | Manually adjustable |
| <a href="#"><u>IR12510320</u></a> | 125mm | 1   | 8um--12um | Manually adjustable |
| <a href="#"><u>IR15010320</u></a> | 150mm | 1   | 8um--12um | Manually adjustable |

### IRDB Lens Double Band (4.3um--5.4um,7.8-8.8um )

| <b>Part No.</b>                     | <b>Focal Length (mm)</b> | <b>F/# (mm)</b> | <b>Wavelength(um)</b>  | <b>Focus Type</b>   |
|-------------------------------------|--------------------------|-----------------|------------------------|---------------------|
| <a href="#"><u>IRDB01520384</u></a> | 15mm                     | 2               | 4.3um--5.4um,7.8-8.8um | Manually adjustable |
| <a href="#"><u>IRDB02020384</u></a> | 20mm                     | 2               | 4.3um--5.4um,7.8-8.8um | Manually adjustable |
| <a href="#"><u>IRDB02520384</u></a> | 25mm                     | 2               | 4.3um--5.4um,7.8-8.8um | Manually adjustable |
| <a href="#"><u>IRDB10020384</u></a> | 100mm                    | 2               | 4.3um--5.4um,7.8-8.8um | Manually adjustable |

### IR2FV Lens Double Field View

| <b>Part No.</b>                    | <b>Focal Length (mm)</b> | <b>F/# (mm)</b> | <b>Wavelength(um)</b> | <b>Focus Type</b>   |
|------------------------------------|--------------------------|-----------------|-----------------------|---------------------|
| <a href="#"><u>IRM2FV15050</u></a> | 150mm/50mm               | 4               | 3.6um--4.9um          | Manually adjustable |
| <a href="#"><u>IR2FV18060</u></a>  | 180mm/60mm               | 1.4             | 8um--12um             | Manually adjustable |

### IR Zoom Lens

| <b>Part No.</b>                    | <b>Focal Length (mm)</b> | <b>F/# (mm)</b> | <b>Wavelength(um)</b> | <b>Focus Type</b>   |
|------------------------------------|--------------------------|-----------------|-----------------------|---------------------|
| <a href="#"><u>IRZ10010320</u></a> | 33mm-100mm               | 1               | 8um--12um             | Manually adjustable |

### IR Athermal Lens

| <b>Part No.</b>                    | <b>Focal Length (mm)</b> | <b>F/# (mm)</b> | <b>Wavelength(um)</b> | <b>Focus Type</b> |
|------------------------------------|--------------------------|-----------------|-----------------------|-------------------|
| <a href="#"><u>IRA02510648</u></a> | 25mm                     | 1               | 8um--12um             | Motor             |
| <a href="#"><u>IRA05010648</u></a> | 50mm                     | 1               | 8um--12um             | Motor             |
| <a href="#"><u>IRA07510648</u></a> | 75mm                     | 1               | 8um--12um             | Motor             |
| <a href="#"><u>IRA10010648</u></a> | 100mm                    | 1               | 8um--12um             | Motor             |

## Motorized & Computerized

We offers motorized IR lens as well as computerized IR lenses. Motorized features will make operation easier and at other cases, motorized features are must for active athermal application. Our typical voltage applied on motor is 5V, 12 V subject to lens size and motor size. The motor is with

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reliable quality and can work under harsh environment from -30 degree to +70 degree. Any lower or higher temperature will need special motor which is also available.

Computerized IR Lens has smart feature that is to move lens by software through central computer. While you are viewing IR image in the screen in the central room, you can zoom or move the lens to see more clear detail or larger field from computer or console. Our connection is RS232 or USB type. Software upgrade support is available over the time.



### **SWIR Lens**

This family of high resolution NIR lenses image from 0.9 - 2.3  $\mu\text{m}$  making them especially well-suited for PCB inspection, specialty laser applications, surveillance and alignment and tracking.

A high F/N and excellent transmission characteristics allow superior imaging in these wavelengths of interest.

RL-SWIR : 1X relay lens is designed for inspection imaging in the Near Infrared (0.9-1.7 $\mu\text{m}$  or 1.7 - 3  $\mu\text{m}$ ) and sized to accommodate 320 x 240 pixels in GaAs sensors.

Its long back focal length (154 mm) makes it well-suited to microscope applications.

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| Part No.             | FL (mm)   | F/# (mm) | Wavelength(um)       | Mount   | Focus Type          |
|----------------------|-----------|----------|----------------------|---------|---------------------|
| <u>IRS0252015.36</u> | 25        | 2        | 1 - 5                | C-Mount | Manually adjustable |
| SWIR25/1.4           | 25        | 1.4      | 0.9 – 2.3            | C-Mount | Manually adjustable |
| SWIR35/1.4           | 35        | 1.4      | 0.9 – 2.3            | C-Mount | Manually adjustable |
| SWIR44/1.4           | 44        | 1.4      | 0.9 – 2.3            | C-Mount | Manually adjustable |
| SWIR50/1.4           | 50        | 1.4      | 0.9 – 2.3            | C-Mount | Manually adjustable |
| SWIR75/1.4           | 75        | 1.4      | 0.9 – 2.3            | C-Mount | Manually adjustable |
| SWIR100/1.4          | 100       | 1.4      | 0.9 – 2.3            | C-Mount | Manually adjustable |
| SWIR25/2             | 25        | 2        | 0.9 – 2.3            | C-Mount | Manually adjustable |
| SWIR35/2             | 35        | 2        | 0.9 - 3              | C-Mount | Manually adjustable |
| SWIR50/2             | 50        | 2        | 0.9 - 3              | C-Mount | Manually adjustable |
| SWIR75/2             | 75        | 2        | 0.9 - 3              | C-Mount | Manually adjustable |
| SWIR100/2            | 100       | 2        | 0.9 - 3              | C-Mount | Manually adjustable |
| SWIR300/3.5          | 300       | 3.5      | 0.9 - 3              | C-Mount | Manually adjustable |
| SWIR25/4             | 25        | 4        | 0.9 – 2.3            | C-Mount | Manually adjustable |
| SWIR35/4             | 35        | 4        | 0.9 – 2.3            | C-Mount | Manually adjustable |
| SWIR50/4             | 50        | 4        | 0.9 – 3              | C-Mount | Manually adjustable |
| SWIR75/4             | 75        | 4        | 0.9 – 3              | C-Mount | Manually adjustable |
| SWIR100/4            | 100       | 4        | 0.9 – 3              | C-Mount | Manually adjustable |
| SWIR500/7            | 500       | 7        | 0.9 – 3              | C-Mount | Manually adjustable |
| Zoom SWIR 4X         | 75-300    | 6-16     | 0.9 - 3              | C-Mount | Motorized           |
| Zoom SWIR 7X         | 75-500    | 6-16     | 0.9 - 3              | C-Mount | Motorized           |
| RL-SWIR 1X/5.6       | BFL > 150 | 5.6      | 0.9 - 1.7<br>1.7 - 3 | C-Mount | Manually adjustable |
| SWIR 2X              |           |          | 0.9-1.7              | C-Mount |                     |



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