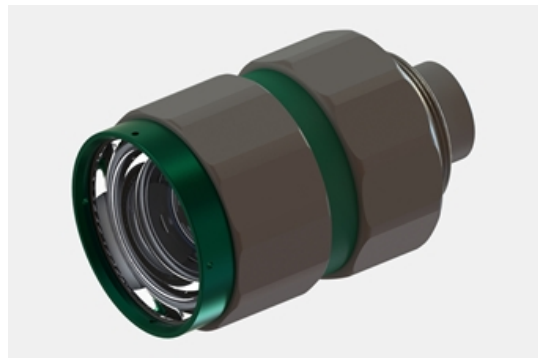


## 短波红外镜头 (SWIR Lens)

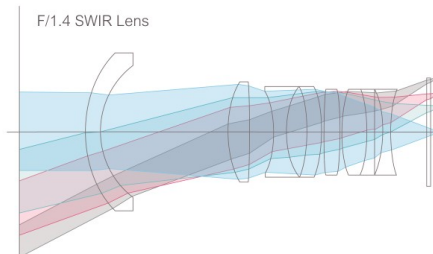
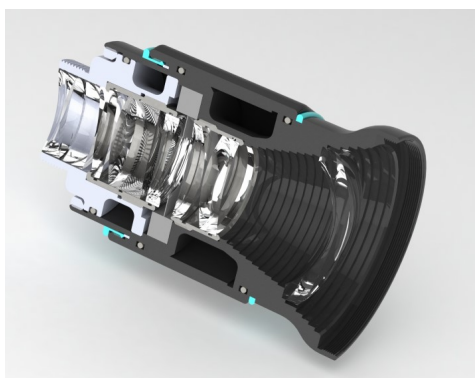
可见光波长范围一般是 400~700nm, 更长波长的光超出了可见光波长范围, 通常需要专用的红外探测器, 如 **InGaAs** 铟镓砷探测器进行观察。短波红外光在物体识别方面能够提供可见光无法提供的信息。通常, **InGaAs** 铟镓砷相机需要结合专门设计的高精度**短波红外镜头**使用, 才能充分发挥其性能。昊量光电提供的高性能、高分辨率**短波红外镜头**进行了全面的优化设计, 能够提供最高质量的短波红外成像。



标准相机成像 无法识别 resolution Pattern



短波红外相机成像 可识别 Resolution Pattern



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### 产品特点

- 高分辨率&优化设计充分发挥短波红外相机性能
- 最新的光学设计保证最优的成像质量
- 更低的 F Number, 收集更多光强, 并保证 F1.4 下的高性能
- 25.7mm 像圈兼容所有大尺寸短波红外探测器阵列
- 专门的红外材料与专业的镀膜设计保证红外波段的高透过率
- 高可靠性、高密封性, 符合美国军方振动与密封标准
- 安全无热设计, C Mount

### 典型应用

- 高光谱遥感、多光谱遥感
- 烟雾穿透、夜视安防
- 生产监测、材料分选

### 指标参数:

|                           |            | AUT-SL-25          | AUT-SL-12.5                                       |
|---------------------------|------------|--------------------|---|
| Focal Length              |            | 25mm               | 12.5mm  |
| Iris Range                |            | F1.4-F16           | F1.8-F16  |
| Operation                 | Focus Iris | Fixed              | Fixed   |
|                           |            | Manual             | Manual  |
| Spectral transimission    |            | 900-1700           | 550-1700  |
| Field of view (HxV)       |            | 1" 54°13'x42°01'   | 68° (Diagonal)                                    |
| Field of View Diagonal    |            | 2/3" 38°47'x29°35' |   |
|                           |            | 1/2" 28°43'x21°44' |   |
| Focusing range            |            | 0.7- infinity      | 0.7- infinity                                     |
| Filter thread (mm)        |            | 52                 | 52  |
| Mechanical interface      |            | C-Mount            | C-Mount   |
| Mass (g)                  |            | ~220               | 65  |
| AR Coating (nm)           |            | 900-1700           | 550-1700  |
| Operating temperature(0C) |            | -5-+40             | -40-+71   |
| Athermalisation           |            | /                  | Full passive athermalisation over operating range |

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|  |   |   |
|--|---|---|
| Mechanical Crash/Gun shock and Vibration | / | Airborne-Fixed&Rotary wing, Vehicle-tracked&Wheeled |
|--|---|---|

Fig.1 - Silicon and InGaAs detector comparison

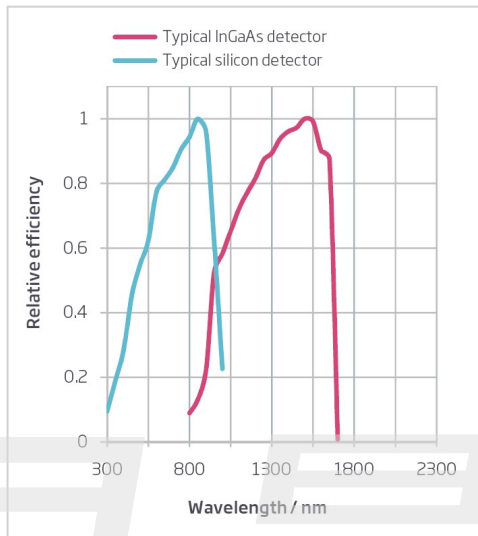
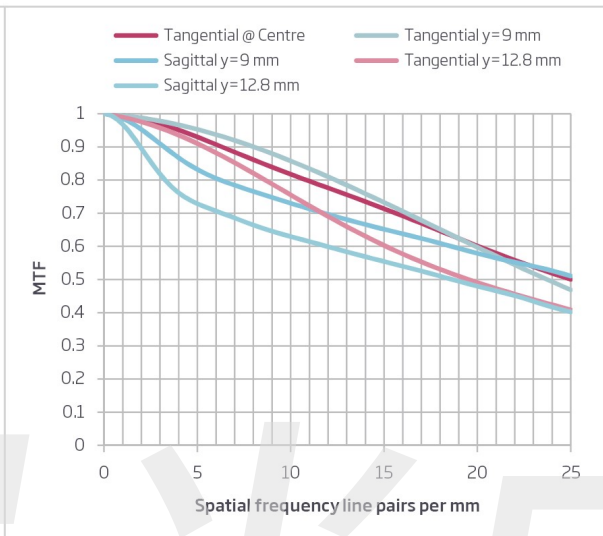


Fig. 2 - MTF chart showing SWIR lens quality



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