

# Line Camera

感光波段范围为950nm至1700nm,  
采用InGaAs 1024像素线阵传感器。

短波红外线线阵相机

## ABL-010IR

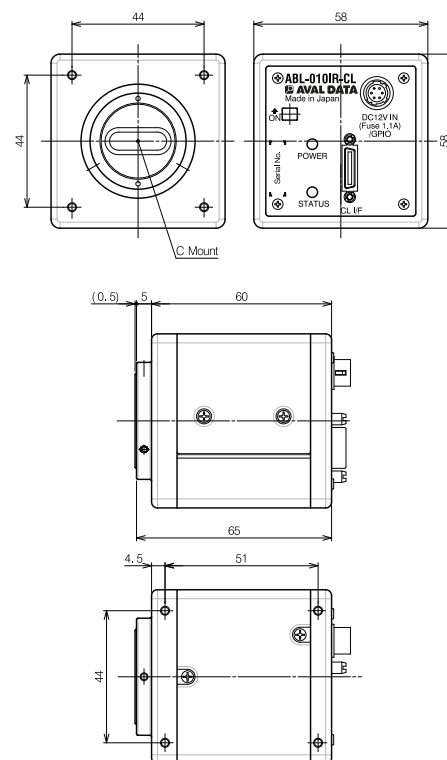
这是一款使用1024像素、像素尺寸为12.5微米、  
感光波段范围在950nm至1700nm之间的  
InGaAs线阵传感器的短波红外 (SWIR) 相机。



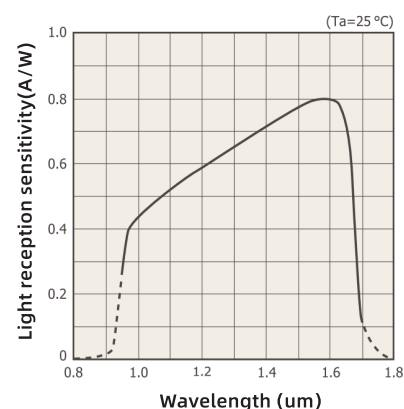
### ABL-010IR Specification

|                           |                                                                                                                                                              |                                        |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Model                     | ABL-010IR-HS-CL                                                                                                                                              | ABL-010IR-GE                           |
| Interface                 | Camera Link (SDR)                                                                                                                                            | Gigabit Ethernet (1000BASE-T)          |
| Image sensor              | Effective pixel : 1024 Pixel size : 12.5 $\mu$ m $\times$ 12.5 $\mu$ m<br>InGaAs line sensor<br>Effective image size : 12.8mm x 0.0125mm, Non-cooling system |                                        |
| Sensitivity wavelength    | 950nm~1700nm                                                                                                                                                 |                                        |
| Pixel clock interval      | 15MHz                                                                                                                                                        |                                        |
| Frame rate                | 40KHz (MAX) / Exposure time 21 $\mu$ s                                                                                                                       |                                        |
| Exposure time             | 10 $\mu$ s~1ms                                                                                                                                               |                                        |
| Read noise                | 1070nV/e-                                                                                                                                                    |                                        |
| S/N                       | 58dB                                                                                                                                                         |                                        |
| Gain                      | 0dB~+12dB                                                                                                                                                    |                                        |
| Black level               | 0 LSB to 127 LSB adjustable (10bit)                                                                                                                          |                                        |
| Main function             | Status LED, external trigger, various corrections (DSNU, PRNU, pixel defect, shading), field upgrade function                                                |                                        |
| Image output              | 8 / 10 / 12bit                                                                                                                                               |                                        |
| Power                     | Input voltage range : DC +12V $\pm$ 1V Power consumption : 4W                                                                                                |                                        |
| Lens mount                | C-mount 1 inch                                                                                                                                               |                                        |
| Operating temp / humidity | 0 $^{\circ}$ C~+40 $^{\circ}$ C / 20~80% (non-condensing)                                                                                                    |                                        |
| Storage temp / humidity   | -20 $^{\circ}$ C~+70 $^{\circ}$ C / 20~80% (non-condensing)                                                                                                  |                                        |
| Dimensions                | 58mm $\times$ 58mm $\times$ 60mm (Excluding mount and protruding parts)                                                                                      |                                        |
| Weight                    | 264g                                                                                                                                                         | 268g                                   |
| Compliance                | RoHS2, CE                                                                                                                                                    |                                        |
| Standard                  | HyperTerminal or compliant software                                                                                                                          | GigE Vision®, GenICam™, GenICam™ GenTL |
| Camera update tool        | SightCam                                                                                                                                                     |                                        |
| Compatible cable          | Camera Link SDR cable                                                                                                                                        | CAT5E, CAT6 compatible LAN cable       |
| SDK                       | For imaging / communication : SDK-AcapLib2 (Model : AZP-ACAP-02)                                                                                             |                                        |

### External dimensions



### Light reception sensitivity



Back side

