

Eyepiece For Thermal Imaging System Development

**Oculus - Thermal Eyepiece Module**

The Oculus type eyepiece is a new VILIR series open core module designed and manufactured to be used in a variety of thermal imaging systems including hand-held, tripod-mounted and head-mounted devices. The eyepiece is based on 0.5" AMOLED micro display, has a wide diopter adjustment range (-5/+5).

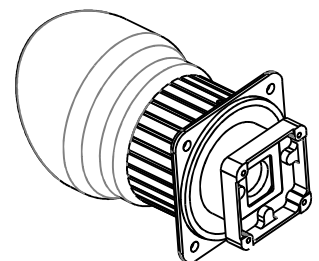
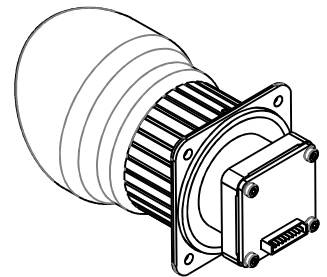
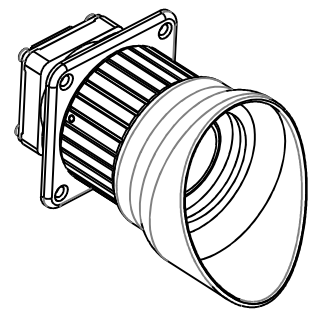
Oculus can be easily integrated into customers product development. Ideal for integrators that design thermal and multi sensor systems for defense, security, surveillance, border, port and base security applications.

OCULUS *clean Ip68* - Fully Waterproof

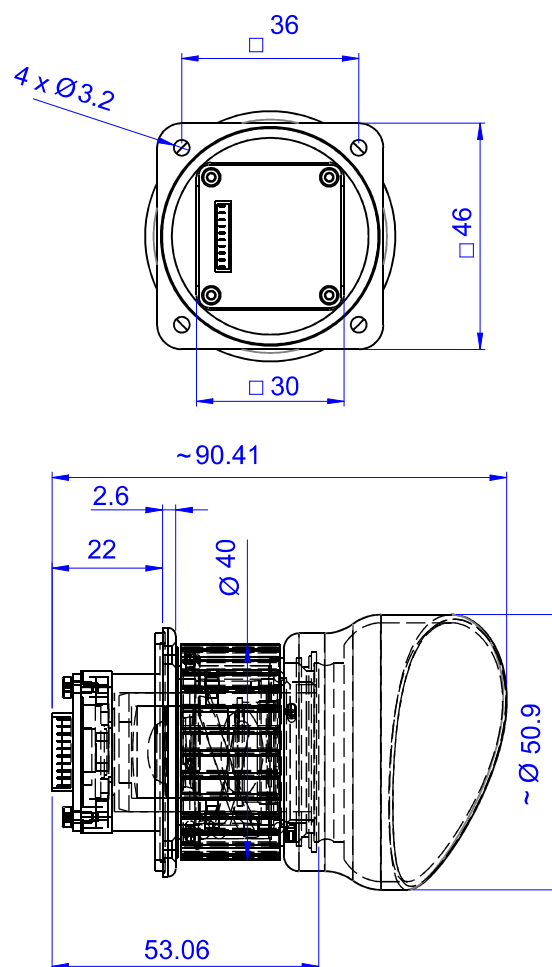
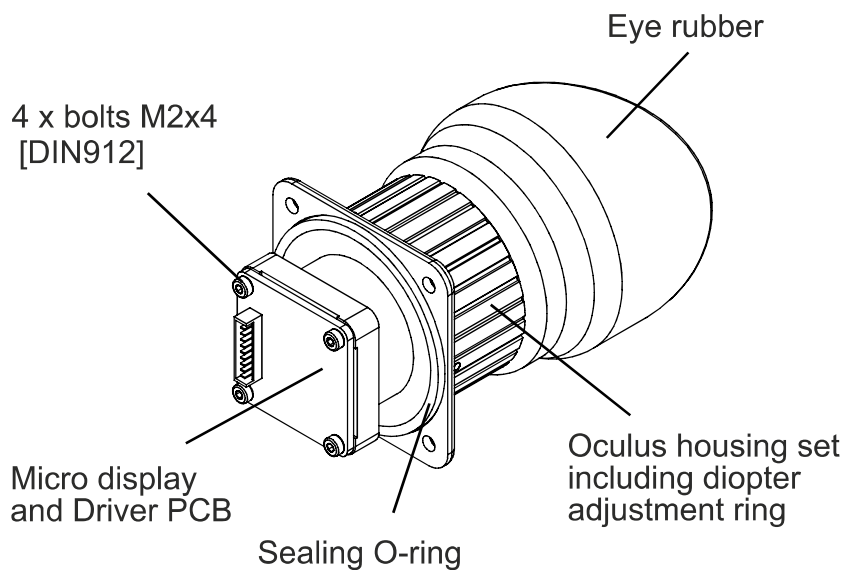
Ip68 waterproof-rated protection ensures the core performs perfectly in wet weather, even during intense rain, snowfall and submersion in 1m. of water for up to 30 min. (IEC 60529).

Key Features:

- Configured for AMOLED 0.5"
- Focal length: 30 mm \pm 1 %
- Distortion: < 1%
- Diopter adjustment: -5/ +5
- Eye relief: 20 mm
- Protection:
 - standard Ip67
 - optional Ip68
- Digital video interface:
 - 24bit 4:4:4 RGB/YCbCr
 - 16bit 4:2:2 YCbCr
 - 8bit 4:2:2 YCbCr/Mono
- Resolution: 800 (x3) x 600
- Magnification: 8 X
- Field of view: 12.6° x 13.0°
- Lens material: Optical glass
- Weight with display: ~120 g
- Size: Ø 51 x 91 mm
- Power supply:
 - Kernel - DC 1.8V@Max50mA
 - OLED Pixels-DC5.0V@MAX200mA



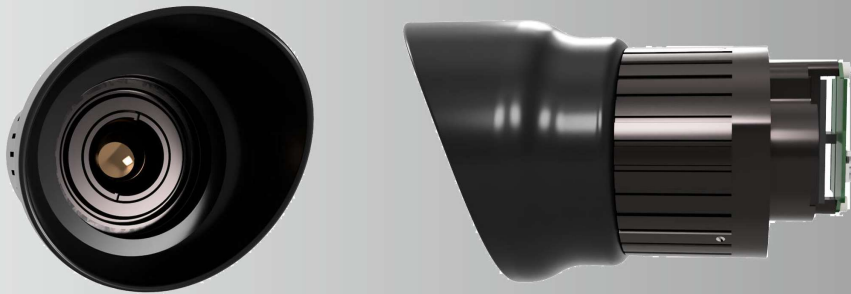
Configuration and dimensions:



Package contents:

- Oculus housing set, including diopter adjustment ring
- Eye rubber
- Sealing O-ring, 4 screws M3x8
- Optional:
 - Micro display SVGA050SCV1R1
 - Driver DVR050-CV-R03
 - Wire harness, L = 20 cm



Eyepiece For Thermal Imaging System Development**Oculus *digital* - Thermal Eyepiece Module**

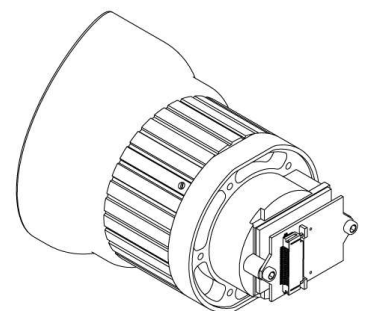
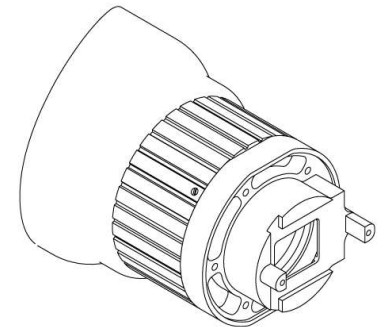
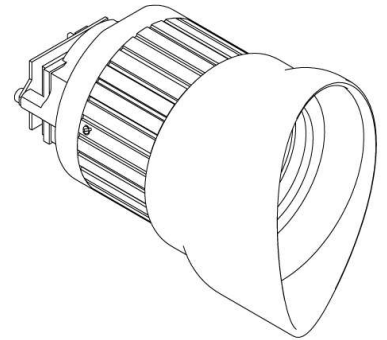
The digital Oculus type eyepiece is a new VILIR series open core module designed and manufactured to be used in a variety of thermal imaging systems including hand-held, tripod-mounted and head-mounted devices.

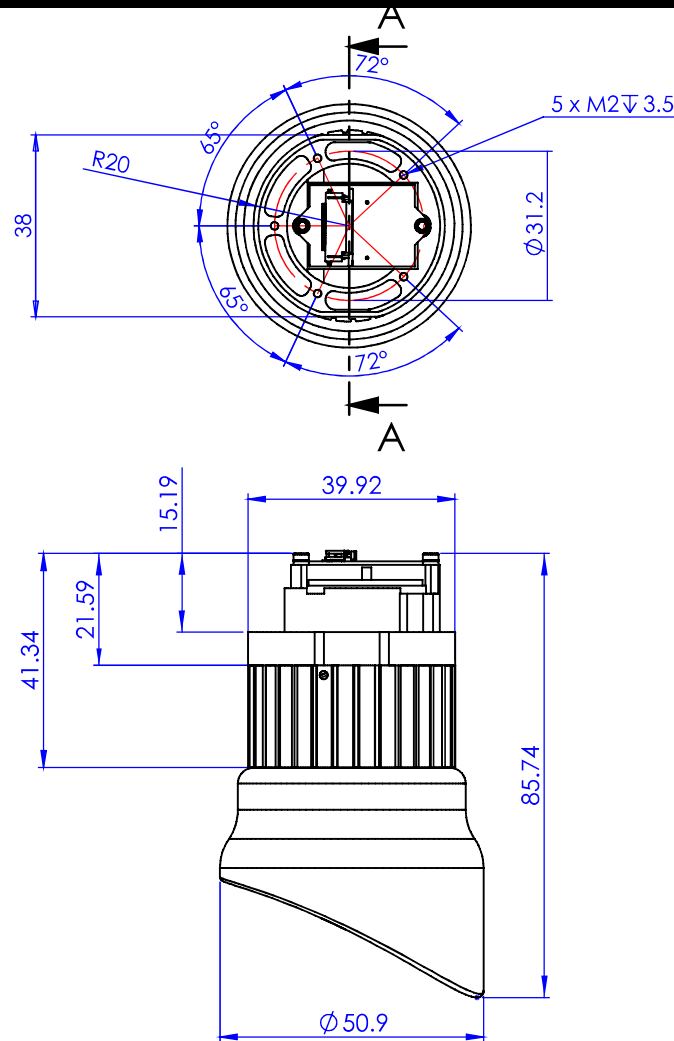
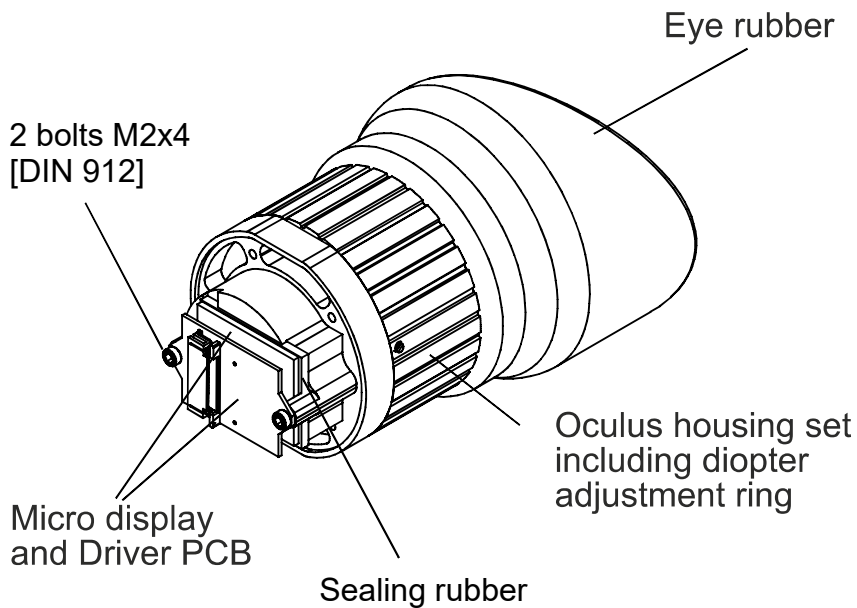
The eyepiece is based on AMOLED microdisplay (either 0.39" MDP03 or 0.5" SVGA050 options) and has a wide diopter adjustment range (-5/+5).

Oculus eyepiece can be easily integrated into customers product development. Ideal for integrators that design thermal and multi sensor systems for defense, security, surveillance, border, port and base security applications.

Key Features:

- Configured for AMOLED micro displays: either 0.39" MDP03 or 0.5" SVGA050
- Resolution 0.39" MDP03: 1024x768x4 sub-pixel (3.29M dots)
- Resolution 0.5" SVGA050: 800 (x3)x600
- Focal length: 30 mm \pm 1 %
- Distortion: < 1%
- Diopter adjustment: -5 / +5
- Eye relief: 20 mm
- Exit pupil: 8 mm
- Protection: standard - IP67, optional - IP68
- Magnification: 8 X
- Field of view: 12.6° x 13.0°
- Lens material: Optical glass
- Weight with display: ~120 g
- Size: Ø 40 x 86 mm



Configuration and dimensions:**Package contents:**

- Oculus housing set, including diopter adjustment ring
- Eye rubber
- Optional:
 - Micro display: MDP03CCWFH4 or SVGA050SCV1R1
 - Driver AST-9B or AST-9M. The pin-outs are available upon request
 - sealing rubber
 - 2 bolts M2x4 [DIN 912]
 - Wire harness

