

# SupIR 45/135mm f/1.1, f/1.6, Motorized Focus 680020\*

**HD**  
FORMAT



## WFOV(45mm)

| HFOV | 320x240 | 640x480 | 1024x768 |
|------|---------|---------|----------|
| 25μ  | 10.4°   |         |          |
| 17μ  | 7.0°    | 14.3°   |          |
| 12μ  | 4.9°    | 9.9°    | 16.3°    |

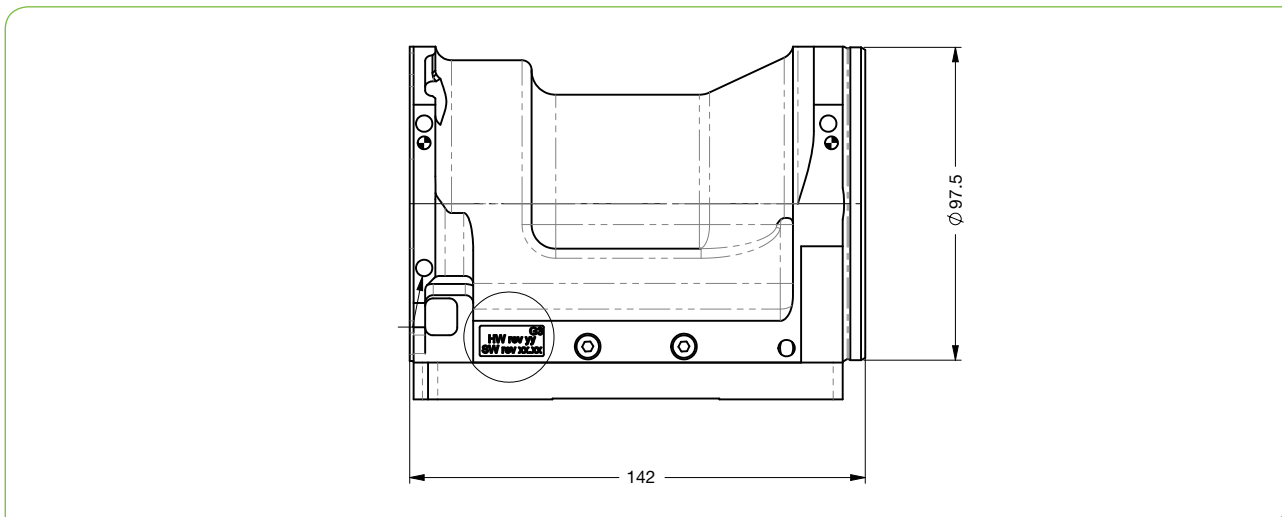
## NFOV(135mm)

| HFOV | 320x240 | 640x480 | 1024x768 |
|------|---------|---------|----------|
| 25μ  | 3.4°    |         |          |
| 17μ  | 2.3°    | 4.6°    |          |
| 12μ  | 1.6°    | 3.3°    | 5.2°     |

LWIR | Multiple FOV

| Property                      | Value                                    |             |
|-------------------------------|--|-------------|
| <b>Optical</b>                | <b>WFOV</b>                              | <b>NFOV</b> |
| Focal Length                  | 45mm                                     | 135mm       |
| F#                            | 1.1                                      | 1.6         |
| Average transmission (8-12μm) | 85% (HC)                                 |             |
| Back Focal Length             | 48.35mm in air                           |             |
| <b>Mechanical</b>             |  |             |
| Focus Mechanism               | Motorized adjustable                     |             |
| Focus Range                   | 10m to infinity                          |             |
| Focus Time (full travel)      | <1 sec.                                  |             |
| Weight                        | 1.4kg                                    |             |
| Max. Dimensions               | Length 142mm, Width 97.5mm, Height 110mm |             |
| FOV Switch Mechanism          | Motorized                                |             |
| FOV Switch Time               | <2 sec.                                  |             |

\* Requires export license



| Property              | Value   |                        |       |          |                   |
|-----------------------|---|------------------------|-------|----------|-------------------|
| <b>Electrical</b>     |   |                        |       |          |                   |
| Focus & FOV Motor     | 0.7A average, 1.0A peak at T=-40°C<br>0.6A average, 1.0A peak at T=20°C |                        |       |          |                   |
| Supply Voltage        | 12V   |                        |       |          |                   |
| Current Consumption   | 0.7A average, 1.0A peak   |                        |       |          |                   |
| <b>Environmental</b>  |   |                        |       |          |                   |
| Operation Temperature | -40°C to +65°C  |                        |       |          |                   |
| Storage Temperature   | -40°C to +71°C  |                        |       |          |                   |
| Sealing               | IP 67 front element only  |                        |       |          |                   |
| Configurations        | Weight (gr)   | Dimensions             | BWD** | Thread   | Coating           |
| 680020-009            | 1400  | 142mm x 110mm x 97.5mm | 9.24  | 4x 3.175 | HC mounting plate |

\* The ICD drawing provided here is primarily a representation and may not accurately reflect the product's actual dimensions and specifications. For precise integration specifications contact your local sales representative.

\*\* The BWD value is calculated for a unique detector setup with varying sealing windows in terms of thickness and material. For more details, contact your local sales representative.