As cameras can now capture even higher picture resolutions through the use of megapixel sensor technology and advanced processing, the lenses also need to have an optical resolution that allows the camera to work at its optimal point.

**System overview**

This P-iris lens allows the camera to determine the optimal operating parameters to achieve the best possible image while alleviating the problem of diffraction that often occurs with megapixel sensors. The lens has a standard CS mount for use with a variety of cameras. The mechanical construction is designed to withstand the environmental stress of surveillance installations and provides long and reliable operation with no maintenance.

**Certifications and approvals**

<table>
<thead>
<tr>
<th>Region</th>
<th>Regulatory compliance/quality marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>CE</td>
</tr>
</tbody>
</table>

**Functions**

P-iris lenses have many advantages over standard DC-iris lenses and are most valuable in variable lighting conditions. They allow control of the iris to be passed completely to the camera. The firmware in cameras from Bosch is then able to intelligently control the iris opening. The stepper motor in a P-iris lens is very precise which means that the iris opening can be set exactly as required.

The camera ensures that the iris opening is not too small so that un-sharp images caused by diffraction are avoided, but still maintains the required depth of field so that objects of interest remain in focus.
**Installation/configuration notes**

![Diagram of LVF-8008C-P0413 Varifocal lens, 4-13mm, 12MP, CS mount]

**Parts included**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Unit</td>
</tr>
</tbody>
</table>

**Technical specifications**

**Optical**

- Maximum sensor format: 1/1.8-inch
- Focal range: 4 – 13 mm
- Iris range: F1.5 to close
- Min. object distance: 0.3 m (1 ft)
- Back focus distance: 15.24 mm (in air)

**Angle of view with DINION ultra 8000 MP (HxV)**

- 4K UHD mode (16:9): Wide: 86x48°; Tele: 27x15°
- 12MP mode (4:3): Wide: 90x67°; Tele: 29x21°

**Angle of view with DINION IP starlight 8000 MP (HxV)**

- 16:9 mode: Wide: 105x57°; Tele: 33x18.5°
- 4:3 mode: Wide: 94x70°; Tele: 30x22°

**Mechanical**

- Weight: 172 g (0.38 lb)
- Dimensions: Ø 65 x 93 mm
- Lens mount: CS-mount

**Environmental**

- Operating Temperature: -10°C to +50°C (+14°F to +122°F)
- Storage Temperature: -40°C to +60°C (-40°F to + 140°F)
- Operating Humidity: Up to 90% non-condensing

**Ordering information**

LVF-8008C-P0413 Varifocal lens, 4-13mm, 12MP, CS mount

Varifocal megapixel lens; P-iris; CS-mount; 1/1.8"; F1.5; 4-13mm

Order number LVF-8008C-P0413

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