ImageIR® 8800
High-end Thermography Camera

Europe’s leading specialist for infrared sensors and measurement technology

Cooled FPA photon detector with (640 × 512) IR pixels
Opto-mechanical MicroScan with (1,280 × 1,024) IR pixels
Frame rate up to 14,593 Hz, GigE Vision compatible
Snapshot detector, internal trigger interface
Extremely short integration times in the microsecond range
Thermal resolution better than 0.025 K

1) ImageIR® 8800 with interchangeable lenses from InfraTec
2) Software IRBIS® 3
3) Rotating rotor blade of a wind turbine

www.InfraTec.eu
www.InfraTec-infrared.com
With its ImageIR® 8800, InfraTec offers another top-level thermographic camera model belonging to the ImageIR® high-end camera series. It is equipped with a cooled LWIR-focal-plane array photon detector that provides a format of \((640 \times 512)\) IR pixels and operates in snapshot mode. Combining an outstanding thermal resolution of better than \(0.025\) K with very high frame rates of up to \(14,593\) Hz and extremely short integration times of only a few microseconds this camera qualifies for airborne biological and geological surveys, non-destructive testing and the analysis of fast thermal processes, which are related to large temperature measuring ranges. Its modular structure which consists of optical, detector and interface modules makes it easily adaptable to the respective application.

An integrated trigger interface guarantees a repeatable high-precision triggering of quick procedures. Multiple configurable digital in- and outputs serve as control ports for the camera or as generator of control signals for external devices. The optical channel consists of exchangeable infrared lens systems as well as application-specific apertures, filters and optical elements.

<table>
<thead>
<tr>
<th>Lenses</th>
<th>Focal length (mm)</th>
<th>FOV (°)</th>
<th>IFOV (mrad)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide-angle lens</td>
<td>13</td>
<td>(40.5 \times 32.9)</td>
<td>1.2</td>
</tr>
<tr>
<td>Standard lens</td>
<td>25</td>
<td>(21.7 \times 17.5)</td>
<td>0.6</td>
</tr>
<tr>
<td>Telephoto lens</td>
<td>50</td>
<td>(11.0 \times 8.8)</td>
<td>0.3</td>
</tr>
<tr>
<td>Telephoto lens</td>
<td>100</td>
<td>(5.5 \times 4.4)</td>
<td>0.15</td>
</tr>
<tr>
<td>Telephoto lens</td>
<td>200</td>
<td>(2.7 \times 2.2)</td>
<td>0.08</td>
</tr>
</tbody>
</table>

* Depending on model

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