LONG-RANGE INFRARED CAMERAS.
The FAST-TrackIR series combines the characteristics of our renowned FAST-IR infrared cameras with impressive ranging capabilities. These cameras have an integrated motorized continuous zoom lens with autofocus and a focal length of up to 660 mm. They are extremely sensitive, and thus enable the detection of challenging targets.

KEY BENEFITS

HIGH FRAME RATE
High performance electronics produce thermal images at rates of up to 355 fps. Sub-windows can even be acquired at rates higher than 4,980 fps, depending on the model.

HIGH-SPEED INTERNAL MEMORY
1 GB internal memory procure reliable recording. An optional upgrade up to 32 GB will provide even more autonomy.

HIGH SENSITIVITY
Temperature differences as small as 20 mK are detectable.

ADVANCED CALIBRATION
Unique proprietary real-time processing of infrared images including NUC, radiometric temperature, automated exposure control (AEC) and enhanced high-dynamic-range imaging (EHDRI). With these unique features, scientists benefit from ease of use and operation flexibility while getting accurate measurements over the entire camera’s operation range.

EXAMPLES OF TYPICAL USES

Surveillance

Target ranging
TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>FAST M350z</th>
<th>FAST M351z</th>
</tr>
</thead>
<tbody>
<tr>
<td>DETECTOR TYPE</td>
<td>Cooled InSb</td>
<td></td>
</tr>
<tr>
<td>SPECTRAL RANGE</td>
<td>3.6 μm to 4.9 μm (opt.: 3 μm to 5.4 μm)</td>
<td></td>
</tr>
<tr>
<td>SPATIAL RESOLUTION</td>
<td>640 × 512 pixels</td>
<td></td>
</tr>
<tr>
<td>DETECTOR PITCH</td>
<td>15 μm</td>
<td></td>
</tr>
<tr>
<td>OPTICAL APERTURE</td>
<td>F/4</td>
<td></td>
</tr>
<tr>
<td>FILTER WHEEL</td>
<td>No</td>
<td>Standard 4-position</td>
</tr>
<tr>
<td>MAXIMUM FRAME RATE (FULL WINDOW)</td>
<td>355 Hz</td>
<td></td>
</tr>
<tr>
<td>MAXIMUM FRAME RATE (SUBWINDOW)</td>
<td>672 Hz @ 320 × 256</td>
<td>4 980 Hz @ 132 × 4</td>
</tr>
<tr>
<td>TYPICAL NETD</td>
<td>25 mK</td>
<td></td>
</tr>
<tr>
<td>NFOV</td>
<td>0.83° × 0.66°</td>
<td></td>
</tr>
<tr>
<td>WFOV</td>
<td>18.2° × 14.6°</td>
<td></td>
</tr>
<tr>
<td>MIN. EXPOSURE TIME</td>
<td>0.5 μs to full frame rate</td>
<td></td>
</tr>
<tr>
<td>LENS MOUNT</td>
<td>Bayonet interface</td>
<td></td>
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</tbody>
</table>

Specifications are subject to change without notice. Other configurations are available upon request.

OTHER SPECS & FEATURES

- Rotary-stirling closed cycle sensor cooling
- Blackbody-free permanent calibration (up to 150 °C)
- 16 bits dynamic range
- High-speed internal memory buffer: up to 32 GB (optional)
- Automatic exposure control (AEC)
- Enhanced high-dynamic-range imaging (EHDR)

- Gig-E
- Camera Link
- Trigger In, Trigger Out
- SDI, GPS, IRIG-B, RS232 and thermistor ports
- Weight: 13.2 kg (for M350z/M200z)
- Size: 20.4" × 8.9" × 7.9"
  520 mm × 225 mm × 200 mm

Cargo ship (size 145 m x 24 m) 6 km from the shore

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