THERMAL IMAGING CAMERAS FOR FIREFIGHTERS

FLIR K33™/ K53™

The K33 and K53 are easy-to-use thermal imaging cameras (TIC) that offer affordability without sacrificing the reliability, clarity, or performance that first responders expect from FLIR. Both cameras feature FLIR’s patented FSX® Flexible Scene Enhancement, which intensifies thermal images’ structural and textural details. The enhanced perspective and greater orientation improves firefighters’ tactical decision-making capabilities. First responders gain a sense of confidence and safety as they forge ahead to fight fires and save lives.

www.flir.com/K33
www.flir.com/K53

STREAMLINED HIGH PERFORMANCE
Simple, single-button glove-friendly control; straightforward operation
- Compact and lightweight enough to carry anywhere or attach to your gear
- Record images and videos with a simple trigger-pull*
- Water-resistant (IP67), and rugged enough to withstand a drop from 2 m (6.6 ft) onto a concrete floor
- Fully operational at temperatures up to 500°F/260°C (max. 5 minutes)

UNCOMPROMISING CLARITY AND RESOLUTION
Detail-rich images help you see clearly and move safely in smoky conditions
- K33 240 x 180 (43,200 pixel) resolution and K53 320 x 240 (78,800 pixel) resolution to see clearly in smoky environments
- Rapid refresh-rate (60 Hz) for better on-scene orientation
- FLIR FSX digital processing adds edge detail for greater perspective and increased navigational capabilities
- Bright and easy to see 4” LCD display

IMPROVED TACTICAL DECISION-MAKING
High-quality imaging can be standard issue for every firefighter
- Affordable enough for fire crews to have multiple TICs in use at a fire scene
- Provides clear visual information needed to make crucial tactical decisions
- Stores thermal images and video clips to access for on-scene review or to produce scene incident reports*

*K53 model only
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Thermal imaging and optical data</th>
<th>K33</th>
<th>K53</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR resolution</td>
<td>240 × 180 (43,200 pixels)</td>
<td>320 × 240 (76,800 pixels)</td>
</tr>
<tr>
<td>Thermal sensitivity/NETD</td>
<td>&lt;40 mK @ 88°F (30°C)</td>
<td>&lt;30 mK @ 88°F (30°C)</td>
</tr>
<tr>
<td>Image/video storage</td>
<td>NA</td>
<td>Up to 200 image or video files (max. duration of 5 min)</td>
</tr>
<tr>
<td>Refresh rate</td>
<td>60 Hz</td>
<td></td>
</tr>
<tr>
<td>Field of view (FOV)</td>
<td>51° × 38°</td>
<td></td>
</tr>
<tr>
<td>Focal plane array</td>
<td>Uncooled microbolometer, 7.5–13 μm</td>
<td></td>
</tr>
<tr>
<td>Start-up time</td>
<td>&lt;17 sec (IR image, no GUI)</td>
<td></td>
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</tbody>
</table>

**Image presentation**

| Display                                          | 320 × 240 pixel, 4 in backlit LCD |                       |
| Auto-range                                       | Selectable on/off in FLIR Tools   |                       |
| Image modes                                      | Fixed color scale, TI Basic       |                       |
| Flexible Scene Enhancement (FSX®)                | Yes                                |                       |

**Measurement**

| Object temperature range                         | -4°F to 302°F (-20°C to 150°C); 32°F to 1202°F (0°C to 650°C) |
| Accuracy                                         | ±7.2°F (±4°C) or ±4% of reading for ambient temperature 50°F to 95°F (10°C to 35°C) |

| Spotmeters                                       | 1                                  |

**Data transfer and compatibility**

| USB type                                         | USB mini-B                         |

**Interfaces**

| Update from PC devices, data transfer to and from PC |

**Video streaming**

| Uncompressed video over USB |

**General**

| Operating temperature range                     | -4°F to 185°F (-20°C to 85°C) – infinity; 302°F (150°C) – 15 minutes; 500°F (260°C) – 5 minutes |
| Battery type and voltage                         | Li-ion, 3.6 V rechargeable           |
| Battery operating time                           | Approximately 4 hours at 77°F (25°C) and with typical use |
| Charging time                                    | 2 h to 85% capacity                  |

**Directives**

| Designed to meet specifications for the following: Vibration + Impact acceleration resistance + Corrosion + Viewing surface abrasion + Heat resistance + Heat and flame + Product label durability |

**Power management**

| Automatic shutdown and sleep mode |

**Encapsulation**

| IP 67 (IEC 60529) |

**Drop**

| 6.6 ft (2 m) |

**Weight w/ battery**

| 1.54 lbs (0.7 kg) |

**Safety (power supply)**

| CE/EN/UL/CSA/PSE 60950-1 |

**Size (L × W × H)**

| 4.7 × 4.9 × 11 in (120 × 125 × 280 mm) |

**Tripod mount**

| UNC 1/4"-20 |

**Package contents**

| K33 or K53 TIC, 2 batteries, battery charger, hard transport case, lanyard strap, neck strap, power supply, printed documentation, retractable lanyard, USB cable. Optional truck charger available. |

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**Warranty**

2 years limited warranty

5 years limited warranty

10 years limited warranty

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**Contact Information**

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NASDAQ: FLIR

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