THERMAL IMAGING CAMERAS FOR FIREFIGHTERS
FLIR K45™ / K55™

The FLIR K45 and K55 thermal imaging cameras (TIC) allow firefighters to see more clearly in the harshest environments, maneuver more strategically, stay better oriented, and find victims faster. Both cameras feature FLIR’s proprietary FSX® Flexible Scene Enhancement technology, producing ultra-sharp, finer textured images that shows subtler details. With FLIR TICs, first responders can quickly and confidently find their way through the darkest environments, identify targets in extreme temperature settings, and make better decisions when seconds count.

www.flir.com/K45
www.flir.com/K55

COMPACT, RUGGED, AND EASY TO USE
Glove-friendly three-button design for straightforward operation
- Compact and lightweight enough to carry anywhere or attach to your gear
- Water resistant (IP67), and rugged enough to withstand drops from 2 m (6.6 ft) onto concrete
- 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
- K45 240 x 180 (43,200 pixel) resolution and K55 320 x 240 (78,800 pixel) resolution to see clearly in smoky environments
- Rapid refresh-rate (60 Hz) helps orient first responders on the scene
- FLIR FSX digital processing adds edge detail for greater perspective and increased navigational capabilities

IMPROVED TACTICAL DECISION-MAKING
High-quality imaging can be standard issue for every firefighter
- Provides clear visual information needed to make crucial tactical decisions
- Fixed temperature scale with TI Basic Mode allows for quick reference in rapidly evolving conditions without confusing changes
- K45 stores up to 200 images and K55 records up to 200 images and/or video clips, captured with a simple trigger pull for on-scene review or later assessment
## Specifications

<table>
<thead>
<tr>
<th>Thermal imaging and optical data</th>
<th>K45</th>
<th>K55</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR resolution</td>
<td>240 x 180 (43,200 pixels)</td>
<td>320 x 240 (76,800 pixels)</td>
</tr>
<tr>
<td>Thermal sensitivity/NETD</td>
<td>&lt;40 mK @ 86°F (30°C)</td>
<td>&lt;30 mK @ 86°F (30°C)</td>
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<tr>
<td>Image/video storage</td>
<td>Up to 200 images</td>
<td>Up to 200 image or video files (max. 5 min)</td>
</tr>
<tr>
<td>Refresh rate</td>
<td>60 Hz</td>
<td></td>
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<tr>
<td>Field of view (FOV)</td>
<td>51° x 38°</td>
<td></td>
</tr>
<tr>
<td>Focal plane array</td>
<td>Uncooled microbolometer, 7.5–13 μm</td>
<td></td>
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<tr>
<td>Start-up time</td>
<td>&lt;17 sec (IR image, no GUI)</td>
<td></td>
</tr>
</tbody>
</table>

**Image presentation**

- Display: 320 x 240 pixel, 4 in backlit LCD
- Auto-range: Yes, mode-dependent
- Image modes: TI Basic (default); Black-and-white firefighting; Fire; Search-and-rescue; Heat detection
- 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
- Isotherm: Yes, according to NFPA and mode-dependent
- Automatic heat detection: Heat-detection mode (hottest 20% of scene is colorized)

### Data transfer and compatibility

<table>
<thead>
<tr>
<th>Feature</th>
<th>K45</th>
<th>K55</th>
</tr>
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<tbody>
<tr>
<td>USB type</td>
<td>USB mini-B</td>
<td></td>
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<tr>
<td>Interfaces</td>
<td>Update from PC devices</td>
<td></td>
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<tr>
<td>Compatibility</td>
<td>Works with FLIR Tools software</td>
<td></td>
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<tr>
<td>Video streaming</td>
<td>Uncompressed video over USB</td>
<td></td>
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</tbody>
</table>

**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
- Storage temperature range: -40°F to 185°F (-40°C to 85°C)
- 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
- Drop: 6.6 ft (2 m)
- Weight w/ battery: 2.4 lbs (1.1 kg)
- Size (L x W x H): 4.7 x 4.9 x 11 in (120 x 125 x 280 mm)
- Tripod mount: UNC 1/4”-20

**Package contents**

- K45 or K55 TIC, 2 batteries, battery charger, hard transport case, lanyard strap, neck strap, power supply, printed documentation, retractable lanyard, USB cable. Optional truck charger available.