# FLIR K33 & K53

## Thermal Imaging Cameras for Firefighters

### STREAMLINED HIGH PERFORMANCE MADE EVEN MORE AFFORDABLE

FLIR's new K33 and K53 provide you with two new lower-cost, easier-to-use options without sacrificing the reliable clarity and performance that FLIR K-Series TICs are well-known for. Both feature FLIR's FSX™ Flexible Scene Enhancement that intensifies structural and textural details in thermal images for better perspective and orientation.

By making it easier to see more clearly under the smokiest, darkest conditions, the K33 and K53 can help improve situational awareness and provide first responders a greater sense of confidence and safety as they forge ahead to fight fires and save lives.


### Fire Power Simplified

Simple operation lets you stay focused on the job. A single, glove-friendly button gets you up and running. A squeeze of the trigger freezes a K33 image or captures K53 stills and videos for reviewing later.

### Uncompromising Resolution

Higher-resolution thermal imaging once exclusive to FLIR Kx5 models is now available in a streamlined package. Choose the K33 for 240 x 180 pixel IR or the K53 for 320 x 240 quality.

### Vivid FSX™ Thermal Images

A big, bright 4" LCD and onboard FSX digital processing enhances thermal image detail for greater visibility, making it easier for firefighters to find their way. 60Hz frame rate keeps up with the action.

### Affordability Redefined

At under $3K for the K33 and under $5K for the K53, FLIR offers the broadest cost-effective range of high performance TICs to help you stretch your budget and put these essential tools into more hands.*

### The Best Warranty

FLIR's unique 2-5-10 Warranty covers the battery for two years, parts and labor for five, and the thermal imaging detector for 10.

* Prices are subject to change.


www.flir.com/fire

FLIR® | The World's Sixth Sense®

## Specifications

| Model | K33 | K53 |
|---|---|---|
| IR Resolution | 240 x 180 pixels | 320 × 240 pixels |
| Thermal Sensitivity/NETD | < 40 mK @ 30°C (86°F) | < 30 mK @ 30°C (86°F) |
| Contrast Optimization | Digital image enhancement using FSX™ | |
| Field of View (FOV) | 51° × 38° | |
| Focus | Fixed focus | |
| Image Frequency | 60 Hz | |
| Detector Type | Focal Plane Array (FPA), uncooled microbolometer | |
| Spectral Range | 7.5–13 µm | |
| Start-up Time | < 17 sec. (IR-image, no GUI) | |
| Start-up Time from Sleep Mode | < 4 sec. | |
| Image Storage | No | Up to 200 JPEGS (co-dependent on the number of video clips) |
| Video Storage | No | Up to 200 files (5 minute max. per clip) |
| In-Camera Video Recording | No | Non-radiometric MPEG-4 to internal flash memory |
| **Image Presentation** | | |
| Display | 4" LCD, 320 × 240 pixels, backlit | |
| Image Modes | TI Basic | |
| Auto-Range | Yes, mode dependent | |
| **Measurement** | | |
| Object Temperature Range | –20°C to 150°C (-4°F to 302°F), 0°C to 650°C (32°F to 1202°F) | |
| Accuracy | ±4°C or ±4% of reading for ambient temperature, 10°C to 35°C (50°F to 95°F) | |
| **Measurement Analysis** | | |
| Spotmeter | One spotmeter | |
| Isotherm | Yes, according to NFPA and mode dependent | |
| Automatic Heat Detection | Heat detection mode (hottest 20% of the scene is colorized) | |
| **Set-up** | | |
| Color Palettes | Multiple palettes, mode dependent | |
| Regional Adjustments | Units, date, and time formats | |
| **Data Communication Interfaces** | | |
| Interface | USB-mini | |
| USB | USB Mini-B: Data transfer to and from PC/ uncompressed colorized video | |
| **Power System** | | |
| Battery | Li Ion, 4 hours operating time | |
| Charging System | 2-bay charger, truck charger available | |
| Charging Time | 2 hours to 85% (3 hours and 25 minutes) capacity, charging status indicated by LEDs | |
| Charging Temperature | 0°C to 45°C (32°F to 113°F) | |
| **Environmental Data** | | |
| Operating Temperature Range | –20°C to 85°C (–4°F to 185°F), 150°C (302°F): 15 min., 260°C (500°F): 5 min. | |
| Storage Temperature Range | –40°C to 85°C (-40°F to 185°F) | |
| Humidity (Operating and Storage) | IEC 60068-2-30/24 h 95% relative humidity, 25°C to 40°C (77°F to 104°F) / 2 cycles | |
| Relative Humidity | 95% relative humidity 25°C to 40°C (77°F to 104°F) non-condensing | |
| Directives | Designed to meet NFPA 1801:2013 specification: • Vibration • Impact acceleration resistance • Corrosion • Viewing surface abrasion • Heat resistance • Heat and flame • Product label durability | |
| EMC | • EN 61000-6-2:2005 (Immunity) • EN 61000-6-3:2011 (Emission) • FCC 47 CFR Part 15B (Emission) | |
| Magnetic Fields | EN 61000-4-8, Test level 5 for continuous field (severe industrial environment) | |
| Encapsulation | IP 67 (IEC 60529) | |
| Shock | 25 g (IEC 60068-2-27) | |
| Vibration | 2 g (IEC 60068-2-6) | |
| Drop | 2.0 m / 6.6 ft., on concrete floor (IEC 60068-2-31) | |
| Safety (Power Supply) | CE/EN/UL/CSA/PSE 60950-1 | |
| **Physical Data** | | |
| Camera Weight, Incl. Battery | < 1.1 kg / 2.4 lb | |
| Camera Size (L × W × H) | 120 × 125 × 280 mm / 4.7 x 4.9 x 11 in. | |
| Tripod Mounting | UNC ¼"-20 | |
| **Packaging** | | |
| Packaging, Contents | Infrared camera, battery (2 ea.), battery charger, hard transport case, power supply, printed documentation, USB cable, lanyard strap, neck strap, retractable lanyard | |
| Optional Accessories | Extra battery, battery charger, retractable lanyard, strap lanyard, neck strap, USB-cable, tripod adapter, in-truck charger | |

For more information on FLIR's firefighting thermal imaging cameras, please visit www.flir.com/fire.


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