

Specifications

Model	K33
IR Resolution	240 x 180 pixels
Thermal Sensitivity/NETD	< 40 mK @ 30°C (86°F)
Contrast Optimization	Digital image enhancement using FSX™
Field of View (FOV)	51° x 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
Video Storage	No
In-Camera Video Recording	No
Image Presentation	
Display	4" LCD, 320 x 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 x W x H)	120 x 125 x 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, user documentation CD-ROM, lanyard strap, neck strap, retractable lanyard, tripod adapter
Optional Accessories	Extra battery, battery charger, hard case, retractable lanyard, strap lanyard, neck strap, USB-cable, tripod adapter, in-truck charger

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