FRONTLINE VISION

FV-SEE FIRE 1200

FIREFIGHTING THERMAL IMAGING CAMERA

SEE THROUGH SMOKE. FIND THE HEAT. ACT FASTER.

The FV-SEE FIRE 1200 is a professional firefighting thermal imaging camera designed for structural firefighting, search and rescue, hotspot detection, hazard assessment and industrial emergency response.

With a high-resolution 384 × 288 thermal detector, 40 mK sensitivity and temperature measurement up to 1200°C, it helps firefighters quickly identify people, hidden fire, abnormal heat sources and potential re-ignition hazards in smoke-filled and low-visibility environments.



384 × 288
THERMAL RESOLUTION
110,592 temperature pixels for clear imaging

40 mK
THERMAL SENSITIVITY
Detects subtle temperature differences

60 Hz
REAL-TIME IMAGING
Smooth and responsive thermal video

UP TO 1200°C
TEMPERATURE MEASUREMENT
Automatic range switching (-40°C to 650°C / up to 1200°C)

38.5° × 29°
FIELD OF VIEW
Wide view for fast room scanning

0.15 m – 600 m
DETECTION DISTANCE
From 15 cm for close-range inspection to 600 m for long-range target detection

APPLICATIONS



STRUCTURAL FIREFIGHTING
Locate fire seats, hidden heat and potential re-ignition.



SEARCH & RESCUE
Identify firefighters and victims through smoke and darkness.



HOTSPOT DETECTION
Locate residual heat after suppression operations.



HAZARD ASSESSMENT
Detect abnormal temperature zones and monitor changing fire conditions.



INDUSTRIAL EMERGENCY RESPONSE
Inspect machinery, electrical equipment and thermal anomalies.

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TECHNICAL SPECIFICATIONS

THERMAL IMAGING

Detector Type	Uncooled infrared detector
Detector Resolution	384 × 288
Thermal Pixels	110,592 pixels
Thermal Sensitivity (NETD)	≤ 40 mK
Spectral Range	8 – 14 µm
Frame Rate	60 Hz
Field of View (H × V)	38.5° × 29°
Spatial Resolution	2 mrad
Digital Zoom	2× / 4×
Detection Distance	0.15 m to 600 m
Temperature Measurement Range	-40°C to 650°C / up to 1200°C (automatic range switching)
Temperature Accuracy	±2°C (within 100°C) / ±2% (above 100°C)
Temperature Units	°C / °F selectable



White Hot



Black Hot



Fire Situation Mode

STORAGE & RECORDING

Standard Storage	16 GB (internal)
Maximum Supported Storage	Up to 1 TB
Image Storage Capacity	More than 4,000 images
Image Capture	Yes (image and video)

POWER

Battery Type	Rechargeable lithium battery
Operating Time	> 5 hours per battery
Batteries Supplied	2 batteries
Charging Interface	USB Type-C (camera and battery)
Charging Method	Charge via camera or battery directly
Battery Level Indicator	Yes (on screen)





Fire Scene Mode



Search & Rescue Mode

DISPLAY & USER INTERFACE

Display Screen	3.5" TFT LCD, 640 × 480 pixels
Display Brightness	Automatic adjustment
Screen Protection	Rugged cover glass (option for Corning® Gorilla® Glass)
User Controls	3-button operation
Visible Light Camera	5 million pixels
Integrated Flashlight	300 lumen LED
Laser Indication	Yes
Laser Ranging	Yes (80 m / 600 m)
Electronic Compass	Yes
Hot / Cold Tracking	Yes

ENVIRONMENTAL PERFORMANCE

Protection Rating	IP67 (water and dust proof)
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +70°C
High-Temperature Endurance	≥ 30 min at 80°C ≥ 10 min at 120°C ≥ 5 min at 260°C
Drop Resistance	2.0 m onto concrete (without packaging)

PHYSICAL CHARACTERISTICS

Dimensions	200 × 110 × 70 mm ±5 mm
Weight	700 g ± 50 g (including battery)
Construction	Rugged handheld design for firefighting
Other Features	Ergonomic design, compact and lightweight

384 × 288 THERMAL RESOLUTION

40 mK THERMAL SENSITIVITY

60 Hz REAL-TIME IMAGING

1200°C MAXIMUM TEMPERATURE

0.15 – 600 m DETECTION DISTANCE

IP67 FIREGROUND PROTECTION