FIXED THERMAL CAMERAS

The 5C Framework

Measurement you can trust—across the FLIR fixed thermal camera range.

FLIR A40 · A50 · A70 · A400 · A500 · A700

A400 · A500 · A700 Motorized focus

Five engineering disciplines make FLIR fixed thermal cameras dependable for automation, condition monitoring, R&D, and early fire detection—when the measurement has to be right.

Compensation

Thermal drift compensation

Stable, repeatable measurements, unaffected by ambient temperature swings.

Calibration

Accredited radiometric calibration

Radiometric calibration traceable to national standards (NIST, RISE), across the full range and the entire sensor.

Consistent stream

Temperature-linear output

Linear, predictable temperature output over GigE Vision and GenICam for easy integration.

Constant focus

Athermalized optics

Athermalized optics hold focus through temperature changes—no refocusing needed.

Cybersecurity

Firewall, 802.1X, and ISO 27001

On-camera firewall and IEEE 802.1X authentication, backed by ISO/IEC 27001:2022 security.

WHY IT MATTERS

A number is only useful if you can trust it.

It's how FLIR fixed cameras hold up across changing environments, long runs, and demanding integrations—so decisions rest on data, not guesswork.

A40 · A50 · A70 Fixed focus

ONE RANGE, TWO WAYS TO DEPLOY

Smart Sensor

ON-CAMERA ANALYTICS

Measurement tools, analytics, and alarms run on the camera, set up via its web interface. Integrates with HMI and SCADA.

Image Streaming

STREAM TO YOUR HOST

Radiometric data streams over GigE Vision and GenICam to a PC or PLC for analysis in software such as FLIR Research Studio.

Both configurations are available across the range.

A40 · A50 · A70 have fixed focus; A400 · A500 · A700 add motorized focus, more lens options, and measurement up to 2000°C.

WHERE IT'S USED

Industrial automation
Process and equipment monitoring.

Condition monitoring
Predictive maintenance and uptime.

R&D and science
Repeatable thermal measurement.

Early fire detection
Monitoring of high-risk areas.

Critical infrastructure
Asset protection and safety.

Product quality
In-line thermal inspection.

When measurement matters, engineers choose FLIR.

Engineered for accuracy. Trusted for critical decisions.