IR Camera Comparison Chart

FLUKE®

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Choose the right tool for the job.

EXPERT SERIES

Engineers, R&D professionals and advanced thermographers who require premium image quality and an unsurpassed level of detail in every infrared image.

PROFESSIONAL SERIES

Professional in-house, contract and service thermographers who need quality images and advanced features and specifications for use in multiple applications.

PERFORMANCE SERIES

Technicians and contractors who need quality images and feature rich affordability for quick scans and/or intermittent inspections.

Where used

EXPERT SERIES
- Industrial maintenance
- Oil and gas predictive maintenance
- Generation/transmission
- Research and development
  - Electrical
  - Mechanical
  - Biology/sciences
- Quality control
- Plus the industries included under the professional and performance series

PROFESSIONAL SERIES
- Industrial maintenance
- Heavy commercial facility maintenance
- Oil and gas maintenance
- Veterinary
- Reliability inspections
- Heavy building diagnostics
  - Building envelope
  - Construction defects
- Electrical, water, gas utilities
- Chemical processing
- Machinery, instrumentation and appliances
- Plus the industries included under the performance series

PERFORMANCE SERIES
- Electrical inspections
- HVAC/R inspections
- Mechanical
- Residential home inspections
- Light commercial maintenance
- Building diagnostics
  - Building envelope
  - Commercial/industrial facilities

	TiX1000 POA	TiX660 POA	TiX640 POA	TiX560 $17,995.00	TiX520 $14,975.00	TiX500 $13,475.00	Ti400 $10,495.00	Ti300 $8,595.00	Ti200 $8,555.00	TiS75 $8,245.00	TiS65 $7,445.00	TiS60 $6,695.00	TiS55 $5,995.00	TiS50 $5,345.00	TiS45 $4,795.00	TiS40 $3,995.00	TiS20 $2,345.00	TiS10 $1,645.00
Detector resolution	1024 x 768, 2048 x 1536 Super Res.	640 x 480, 1280 x 960 Super Res.	640 x 480	320 x 240, 640 x 480 Super Res.	320 x 240, 640 x 480 Super Res.	320 x 240, 640 x 480 Super Res.	320 x 240	240 x 180	200 x 150	320 x 240	260 x 195	260 x 195	220 x 165	220 x 165	160 x 120	160 x 120	120 x 90	80 x 60
Spatial resolution	0.6 mRad	0.8 mRad	0.8 mRad	1.31 mRad	1.31 mRad	1.31 mRad	1.31 mRad	1.75 mRad	2.09 mRad	2.0 mRad	2.4 mRad	2.4 mRad	2.8 mRad	2.8 mRad	3.9 mRad	3.9 mRad	5.2 mRad	7.8 mRad
Field of view	32.4° x 24.7°	30.9° x 23.1°	30.9° x 23.1°	24° x 17°	24° x 17°	24° x 17°	24° x 17°	24° x 17°	24° x 17°	35.7° x 26.8°	35.7° x 26.8°	35.7° x 26.8°	35.7° x 26.8°	35.7° x 26.8°	35.7° x 26.8°	35.7° x 26.8°	35.7° x 26.8°	35.7° x 26.8°
Distance to Spot	1766:1	1200:1	1200:1	753:1	753:1	753:1	753:1	566:1	470:1	504:1	409:1	409:1	346:1	346:1	252:1	252:1	189:1	126:1
Thermal sensitivity	50 mK	30 mK	30 mK	45 mK , 30 mK Filter Mode	50 mK , 40 mK Filter Mode	50 mK	50 mK	50 mK	75 mK	80 mK	80 mK	80 mk	80 mk	80 mk	90 mK	90 mK	100 mK	150 mK
Temperature range	-40 °C to +1200 °C (-4 °F to +2192°F)[1]	-40 °C to +1200 °C (-4 °F to +2192°F)[1]	-40 °C to +1200 °C (-4 °F to +2192°F)	-20 °C to +1200 °C (-4 °F to +2192°F)	-20 °C to +650 °C (-4 °F to +1562°F)	-20 °C to +650 °C (-4 °F to +1202 °F)	-20 °C to +1200 °C (-4 °F to +2192°F)	-20 °C to +650 °C (-4 °F to +1202°F)	-20 °C to +650 °C (-4 °F to +1202°F)	-20 °C to +550 °C (-4 °F to 1022 °F)	-20 °C to +550 °C (-4 °F to 1022 °F)	-20 °C to +550 °C (-4 °F to 1022 °F)	-20 °C to + 450 °C (-4 °F to 842 °F)	-20 °C to + 450 °C (-4 °F to 842 °F)	-20 °C to +350 °C (-4 °F to 662 °F)	-20 °C to +350 °C (-4 °F to 662 °F)	20 °C to +350 °C (-4 °F to 662 °F)	-20 °C to +260 °C (-4 °F to 482 °F)
Focus systems	LS, AF, MF, ES	LS, AF, MF, ES	AF, MF, ES	LS, AMF	LS, AMF	LS, AMF	LS, AMF	LS, AMF	LS, AMF	MF	MF	FF	MF	FF	MF	FF	FF	FF
Laser distance meter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–	–	–	–	–	–	–	–	–
Image enhancement	IRF, PIP, SR	IRF, PIP, SR	IRF, PIP	IRF, PIP, SR, IS	IRF, PIP, SR	IRF, PIP, SR	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF, PIP	IRF	–
Annotation	VA, TA	VA, TA	VA, TA	IRFN, VA, TA	IRFN, VA, TA	IRFN, VA, TA	IRFN, VA, TA	IRFN, VA	IRFN, VA	IRFN, VA	IRFN, VA	IRFN, VA	IRFN, VA	IRFN, VA	VA	VA	–	–
Standard video rec.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–	–	–	–	–	–
Radiometric video rec.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–	–	–	–	–	–
Optional lenses	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–	–	–	–	–	–	–	–	–