

ThermaCAM™ Optics

for ThermaCAM E/B2-series and ThermoVision™ A20-series infrared cameras

ThermaCAM E/B2-series and ThermoVision A20-series infrared camera systems are designed with interchangeable lenses.

LENSES FOR EVERY APPLICATION

FLIR Systems offers a complete range of optics to suit nearly any requirement. Whether the application requires an extremely wide field-of-view or a long distance telescope, a suitable lens exists.

EASILY ATTACHABLE

Optics mount easily to the camera. Each lens has its own unique calibration to insure accuracy.

Once calibrated at the factory, the camera will automatically identify the lens attachment and load the appropriate data into the radiometric calculations. There is no need for manual adjustment.

HIGHEST QUALITY AND PERFORMANCE

All lenses are manufactured at FLIR Systems utilising the latest diamond turning machines to ensure the highest quality and performance.

WIDE OPTICS SELECTION

WIDE ANGLE AND TELESCOPIC OPTICS AVAILABLE. THE WIDE ANGLE OPTICS CAN ALSO BE USED AS A MACRO LENS

DIAMOND TURNED GERMANIUM OPTICS

HIGHEST QUALITY GERMANIUM WITH ANTIREFLECTIVE COATINGS FOR MAXIMUM TRANSMISSION

INDIVIDUALLY CALIBRATED

ALL LENSES ARE FACTORY CALIBRATED FOR HIGHEST ACCURACY

AUTOMATIC RECOGNITION

EACH OPTIC IS AUTOMATICALLY RECOGNISED BY THE CAMERA;
NO ADJUSTMENTS ARE NECESSARY

APPLICATIONS SUPPORT

ENGINEERS ARE AVAILABLE TO DISCUSS YOUR OPTICAL REQUIREMENTS



Telescopic lenses offer a detailed view of the object and accurate measurement

Wide-angle lenses give you a complete overview of the situation

Macro- and microscopic lenses show you the smallest details

TECHNICAL SPECIFICATIONS

lens	min focus distance		Object distance									
			0.1	0.30	0.50	1.20	2	4	6	10	30	100
9° x 7° with 36 mm lens 2 x telescope	1.2 m	HFOV* VFOV** IFOV***				0.19 0.14 1.17	0.31 0.23 1.94	0.62 0.47 3.89	0.93 0.70 5.18	1.56 1.17 9.72	4.67 3.50 29.17	15.66 11.67 97.22
19° x 14° with 17 mm lens universal	0.3 m	HFOV VFOV IFOV		0.10 0.07 0.62	0.16 0.12 1.03	0.40 0.30 2.47	0.66 0.49 4.12	1.32 0.99 8.24	1.98 1.48 12.35	3.29 2.47 20.59	9.88 7.41 61.76	32.94 24.71 205.88
34° x 25° with 9 mm lens 0.5 wide angle	0.1 m	HFOV VFOV IFOV	0.06 0.05 0.39	0.19 0.14 1.17	0.31 0.23 1.94	0.75 0.56 4.67	1.24 0.93 7.78	2.49 1.87 15.56	3.74 2.80 23.33	6.22 4.67 38.89	18.67 14.00 116.67	62.22 46.67 388.89
60° x 45° with 4.5 mm lens 0.25 wide angle	0.1 m	HFOV VFOV IFOV	0.12 0.09 0.78	0.37 0.28 2.33	0.62 0.47 3.89	1.49 1.12 9.33	2.49 1.87 15.56	4.98 3.73 31.11	7.47 5.60 46.67	12.4 9.33 77.78	37.33 28.00 233.33	124.44 93.33 777.78

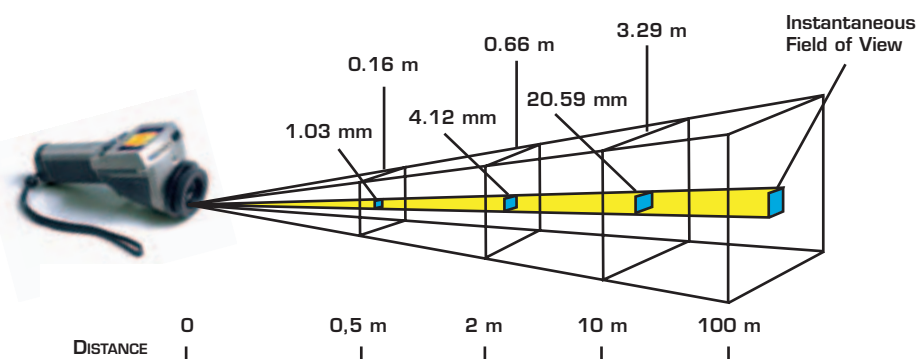
Note: All values presented above are nominal.

*HFOV = Horizontal Field of view (in m)

**VFOV = Vertical Field of View (in m)

***IFOV = Spot size (in mm)

RELATION BETWEEN FIELD OF VIEW AND DISTANCE (17 MM LENS)



FLIR SYSTEMS AB

World Wide Thermography Center
Rinkebyvägen 19 - PO Box 3
SE-182 11 Danderyd
Sweden
Tel.: +46 (0)8 753 25 00
Fax: +46 (0)8 753 23 64
e-mail: sales@flir.se
www.flir.com

FLIR SYSTEMS LTD.

United Kingdom
Tel.: +44 (0)1732 220 011
e-mail: sales@flir.uk.com

FLIR SYSTEMS Co. LTD.

Hong Kong
Tel.: +852 27 92 89 55
e-mail: flir@flir.com.hk

FLIR SYSTEMS GMBH

Germany
Tel.: +49 (0)69 95 00 900
e-mail: info@flir.de

FLIR SYSTEMS SARL

France
Tel.: +33 (0)1 41 33 97 97
e-mail: info@flir.fr

FLIR SYSTEMS S.R.L.

Italy
Tel.: +39 02 99 45 10 01
e-mail: info@flir.it

FLIR SYSTEMS AB

Belgium
Tel.: +32 (0)3 287 87 10
e-mail: info@flir.be

WWW.FLIR.COM



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ThermoVision™ A20-Series, adaptable
to every situation thanks to a wide
range of optics