



Metadata

Part No.	73309-0102	83207-0102	83209-0102	83213-0102	83225-0101	83250-0101
Product name	FLIR A35 f=9 mm with SC kit	FLIR A35 FOV 45 (60 Hz, ver. 2017)	FLIR A35 FOV 69 (30 Hz, ver. 2017)	FLIR A35 FOV 25 (60 Hz, ver. 2017)	FLIR A35 FOV 13 (60 Hz, ver. 2017)	FLIR A35 FOV 6.5 (60 Hz, ver. 2017)
Revision	47931	47934	47942	47933	47932	47935
Last modified	2018-03-06	2018-03-06	2018-03-06	2018-03-06	2018-03-06	2018-03-06

Imaging and optical data

IR resolution	320 × 256 pixels	320 × 256 pixels	320 × 256 pixels	320 × 256 pixels	320 × 256 pixels	320 × 256 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK	< 0.05°C @ +30°C (+86°F) / 50 mK	< 0.05°C @ +30°C (+86°F) / 50 mK	< 0.05°C @ +30°C (+86°F) / 50 mK	< 0.05°C @ +30°C (+86°F) / 50 mK	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	48° × 39°	45° × 35°	69° × 56°	25° × 19°	13° × 10°	6.5° × 5°
Minimum focus distance	3.2 cm (1.6 in.)	2.5 cm (0.98 in.)	3.2 cm (1.6 in.)	7.6 cm (3.0 in.)	30 cm (12 in.)	1.5 m (59 in.)
Focal length	9 mm (0.35 in.)	7.5 mm (0.30 in.)	9 mm (0.35 in.)	13 mm (0.51 in.)	25 mm (0.98 in.)	50 mm (1.97 in.)
Spatial resolution (IFOV)	2.78 mrad	2.267 mrad	3.8 mrad	1.308 mrad	0.680 mrad	0.340 mrad
F-number	1.25	1.4	1.4	1.25	1.1	1.2
Image frequency	60 Hz	60 Hz	30 Hz	60 Hz	60 Hz	60 Hz
Focus	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed

Detector data

Detector type	Focal plane array (FPA), uncooled VOX microbolometer	Focal plane array (FPA), uncooled VOX microbolometer	Focal plane array (FPA), uncooled VOX microbolometer	Focal plane array (FPA), uncooled VOX microbolometer	Focal plane array (FPA), uncooled VOX microbolometer	Focal plane array (FPA), uncooled VOX microbolometer
Spectral range	7.5–13 μm	7.5–13 μm	7.5–13 μm	7.5–13 μm	7.5–13 μm	7.5–13 μm
Detector pitch	25 μm	17 μm	34 μm	17 μm	17 μm	17 μm
Detector time constant	Typical 12 ms	Typical 12 ms	Typical 12 ms	Typical 12 ms	Typical 12 ms	Typical 12 ms

Measurement

Object temperature range	<ul style="list-style-type: none"> -25 to +135°C (-13 to 275°F) -40 to +550°C (-40 to +1022°F) 	<ul style="list-style-type: none"> -25 to +100°C (-13 to 212°F) -40 to +550°C (-40 to +1022°F) 	<ul style="list-style-type: none"> -25 to +135°C (-13 to 275°F) -40 to +550°C (-40 to +1022°F) 	<ul style="list-style-type: none"> -25 to +100°C (-13 to 212°F) -40 to +550°C (-40 to +1022°F) 	<ul style="list-style-type: none"> -25 to +100°C (-13 to 212°F) -40 to +550°C (-40 to +1022°F) 	<ul style="list-style-type: none"> -25 to +100°C (-13 to 212°F) -40 to +550°C (-40 to +1022°F)
Accuracy	±5°C (±9°F) or ±5% of reading	±5°C (±9°F) or ±5% of reading	±5°C (±9°F) or ±5% of reading	±5°C (±9°F) or ±5% of reading	±5°C (±9°F) or ±5% of reading	±5°C (±9°F) or ±5% of reading

Measurement analysis

Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity	Automatic, based on inputs for distance, atmospheric temperature and relative humidity	Automatic, based on inputs for distance, atmospheric temperature and relative humidity	Automatic, based on inputs for distance, atmospheric temperature and relative humidity	Automatic, based on inputs for distance, atmospheric temperature and relative humidity	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors	Automatic, based on signals from internal sensors	Automatic, based on signals from internal sensors	Automatic, based on signals from internal sensors	Automatic, based on signals from internal sensors	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.5 to 1.0	Variable from 0.5 to 1.0	Variable from 0.5 to 1.0	Variable from 0.5 to 1.0	Variable from 0.5 to 1.0	Variable from 0.5 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature	Automatic, based on input of reflected temperature	Automatic, based on input of reflected temperature	Automatic, based on input of reflected temperature	Automatic, based on input of reflected temperature	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature	Automatic, based on input of optics/window transmission and temperature	Automatic, based on input of optics/window transmission and temperature	Automatic, based on input of optics/window transmission and temperature	Automatic, based on input of optics/window transmission and temperature	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters	Global object parameters	Global object parameters	Global object parameters	Global object parameters	Global object parameters

Ethernet

Ethernet	Control and image	Control and image	Control and image	Control and image	Control and image	Control and image
Ethernet, type	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet
Ethernet, standard	IEEE 802.3	IEEE 802.3	IEEE 802.3	IEEE 802.3	IEEE 802.3	IEEE 802.3
Ethernet,	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45

