





Metadata

Part No. Product name	SC kit (30 Hz)	73513-0102 FLIR A65 f=13 mm with SC kit (7.5 Hz)	Hz, ver. 2016)	75010-0101 FLIR A65 FOV 6.2 (30 Hz, ver. 2016)	75013-0101 FLIR A65 FOV 45 (30 Hz, ver. 2016)	75025-0101 FLIR A65 FOV 25 (30 Hz, ver. 2016)	75050-0101 FLIR A65 FOV 12.4 (30 Hz, ver. 2016)	
Revision Last modified	47936 2018-03-06	47943 2018-03-06	47941 2018-03-06	47940 2018-03-06	47939 2018-03-06	47938 2018-03-06	47937 2018-03-06	
Imaging and	l optical data							
IR resolution	640 × 512 pixels	640 × 512 pixels	640 × 512 pixels	640 × 512 pixels	640 × 512 pixels	640 × 512 pixels	640 × 512 pixels	
Thermal sensitivity/NETD Field of view (FOV)	< 0.05°C @ +30°C 9 (+86°F) / 50 mK 45° × 37°	< 0.05°C @ +30°C (+86°F) / 50 mK 45° × 37°	< 0.05°C @ +30°C (+86°F) / 50 mK 90° × 69°	< 0.05°C @ +30°C (+86°F) / 50 mK 6.2° × 4.96°	< 0.05°C @ +30°C (+86°F) / 50 mK 45° × 37°	< 0.05°C @ +30°C (+86°F) / 50 mK 25° × 20°	< 0.05°C @ +30°C (+86°F) / 50 mK 12.4° × 9.92°	
Minimum focus distance	7.6 cm (3.0 in.)	7.6 cm (3.0 in.)	2.5 cm (0.98 in.)	7 m (23 ft.)	7.6 cm (3.0 in.)	30 cm (12 in.)	1.5 m (59 in.)	
Focal length Spatial resolution	13 mm (0.5 in.) 1.31 mrad	13 mm (0.5 in.) 1.31 mrad	7.5 mm (0.30 in.) 2.27 mrad	100 mm (4 in.) 0.170 mrad	13 mm (0.5 in.) 1.31 mrad	25 mm (0.98 in.) 0.68 mrad	50 mm (2 in.) 0.340 mrad	
(IFOV) F-number	1.25	1.25	1.4	1.6	1.25	1.25	1.2	
Image	30 Hz	7.5 Hz	30 Hz					
frequency								
Focus	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	
Detector dat								
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	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	7.5–13 µm	
Detector pitch	17 µm	17 µm	17 µm	17 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	Typical 12 ms	
Measuremer	nt							
Object	 -25 to +135°C (- 	 -25 to +135°C (- 	 -25 to +135°C (- 	 -25 to +135°C (- 	 -25 to +135°C (- 	 -25 to +135°C (- 	 -25 to +135°C (- 	
temperature	13 to 275°F)	13 to 275°F)	13 to 275°F)	13 to 275°F)	13 to 275°F)	13 to 275°F)	13 to 275°F)	
range	 -40 to +550°C (- 40 to +1022°F) 	 -40 to +550°C (- 40 to +1022°F) 	 -40 to +550°C (- 40 to +1022°F) 	 -40 to +550°C (- 40 to +1022°F) 	 -40 to +550°C (- 40 to +1022°F) 	 -40 to +550°C (- 40 to +1022°F) 	 -40 to +550°C (- 40 to +1022°F) 	
Accuracy	\pm 5°C (\pm 9°F) or \pm 5% of reading	\pm 5°C (\pm 9°F) or \pm 5% of reading	\pm 5°C (\pm 9°F) or \pm 5% of reading	\pm 5°C (\pm 9°F) or \pm 5% of reading	\pm 5°C (\pm 9°F) or \pm 5% of reading	\pm 5°C (\pm 9°F) or \pm 5% of reading	\pm 5°C (\pm 9°F) or \pm 5% of reading	
Measuremer	nt analysis							
Measuremer Atmospheric	nt analysis Automatic, based on	Automatic, based on	Automatic, based on	Automatic, based on	Automatic, based on	Automatic, based on	Automatic, based on	
	Automatic, based on inputs for distance, atmospheric temperature and	inputs for distance, atmospheric temperature and	inputs for distance, atmospheric temperature and	inputs for distance, atmospheric temperature and	inputs for distance, atmospheric temperature and	inputs for distance, atmospheric temperature and	inputs for distance, atmospheric temperature and	
Atmospheric transmission	Automatic, based on inputs for distance, atmospheric	inputs for distance, atmospheric	inputs for distance, atmospheric					
Atmospheric transmission correction Optics transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	
Atmospheric transmission correction Optics transmission	Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	
Atmospheric transmission correction Optics transmission correction Emissivity	Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors	
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Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/windows correction Measurement corrections Ethernet Ethernet Ethernet Ethernet, type Ethernet, connector type Ethernet, communication Ethernet, image	Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 7.5 Hz • Signal linear/	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/	
Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/windows correction Measurement corrections Ethernet Ethernet Ethernet Ethernet, type Ethernet, connector type Ethernet, communication Ethernet, image	Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/ DDE • Automatic/	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 7.5 Hz • Signal linear/ DDE • Automatic/	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/ DDE • Automatic/	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/ DDE • Automatic/	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/ DDE • Automatic/	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/ DDE • Automatic/	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/ DDE • Automatic/	
Atmospheric transmission correction Optics transmission correction Emissivity correction Reflected apparent temperature correction External optics/windows correction Measurement corrections Ethernet Ethernet Ethernet Ethernet, type Ethernet, connector type Ethernet, communication Ethernet, image	Automatic, based on inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/ DDE	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 7.5 Hz • Signal linear/ DDE	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/ DDE	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/ DDE	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/ DDE	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/ DDE	inputs for distance, atmospheric temperature and relative humidity Automatic, based on signals from internal sensors Variable from 0.5 to 1.0 Automatic, based on input of reflected temperature Automatic, based on input of optics/window transmission and temperature Global object parameters Control and image Gigabit Ethernet IEEE 802.3 RJ-45 GigE Vision ver. 1.2 Client API GenICam compliant 8-bit monochrome @ 30 Hz • Signal linear/ DDE	

						14-bit 640 × 512 pixels								
	@ 30 HzSignal linear/	@ 7.5 HzSignal linear/	@ 30 HzSignal linear/	@ 30 HzSignal linear/	@ 30 HzSignal linear/	@ 30 HzSignal linear/	@ 30 HzSignal linear/							
	DDE • Temperature	DDE • Temperature	DDE • Temperature	DDE • Temperature	DDE • Temperature	DDE • Temperature	DDE • Temperature							
	linear GigE Vision and	linear GigE Vision and	linear GigE Vision and	linear GigE Vision and	linear GigE Vision and	linear GigE Vision and	linear GigE Vision and							
Ethernet, power							GenICam compatible Power over Ethernet, PoE IEEE 802.3af class 0							
Ethernet, protocols	Power TCP, UDP, ICMP, IGMP, DHCP, GigEVision	Power TCP, UDP, ICMP, IGMP, DHCP, GigEVision	Power TCP, UDP, ICMP, IGMP, DHCP, GigEVision	Power TCP, UDP, ICMP, IGMP, DHCP, GigEVision	Power TCP, UDP, ICMP, IGMP, DHCP, GigEVision	Power TCP, UDP, ICMP, IGMP, DHCP, GigEVision	Power TCP, UDP, ICMP, IGMP, DHCP, GigEVision							
Digital input	/output	, ,	, ,	, ,	, ,	, 5	, 5							
Digital input, purpose	General purpose	General purpose	General purpose	General purpose	General purpose	General purpose	General purpose							
Digital input	1× opto-isolated, "0" <1.2 VDC, "1" = 2-25 VDC.	1× opto-isolated, "0" <1.2 VDC, "1" = 2-25 VDC.	1× opto-isolated, "0" <1.2 VDC, "1" = 2-25 VDC.	1× opto-isolated, "0" <1.2 VDC, "1" = 2-25 VDC.	1× opto-isolated, "0" <1.2 VDC, "1" = 2-25 VDC.	1× opto-isolated, "0" <1.2 VDC, "1" = 2-25 VDC.	1× opto-isolated, "0" <1.2 VDC, "1" = 2-25 VDC.							
Digital output, purpose	General purpose output to ext. device (programmatically set)	General purpose output to ext. device (programmatically set)	General purpose output to ext. device (programmatically set)	General purpose output to ext. device (programmatically set)	General purpose output to ext. device (programmatically set)	General purpose output to ext. device (programmatically set)	General purpose output to ext. device (programmatically set)							
Digital output	1× opto-isolated, 2–40 VDC, max. 185 mA	1× opto-isolated, 2–40 VDC, max. 185 mA	1× opto-isolated, 2–40 VDC, max. 185 mA	1× opto-isolated, 2–40 VDC, max. 185 mA	1× opto-isolated, 2–40 VDC, max. 185 mA	1× opto-isolated, 2–40 VDC, max. 185 mA	1× opto-isolated, 2–40 VDC, max. 185 mA							
Digital I/O, isolation voltage		500 VRMS	500 VRMS	500 VRMS	500 VRMS	500 VRMS	500 VRMS							
Digital I/O, supply voltage	2–40 VDC, max. 200 mA	2–40 VDC, max. 200 mA	2–40 VDC, max. 200 mA	2–40 VDC, max. 200 mA	2–40 VDC, max. 200 mA	2–40 VDC, max. 200 mA	2-40 VDC, max. 200 mA							
Digital I/O, connector type	12-pole M12 connector (shared with Digital synchronization and External power)	12-pole M12 connector (shared with Digital synchronization and External power)	12-pole M12 connector (shared with Digital synchronization and External power)	12-pole M12 connector (shared with Digital synchronization and External power)	12-pole M12 connector (shared with Digital synchronization and External power)	12-pole M12 connector (shared with Digital synchronization and External power)	12-pole M12 connector (shared with Digital synchronization and External power)							
in, purpose Synchronization	Frame synchronization in to control camera 1×, non-isolated	Frame synchronization in to control camera 1×, non-isolated	Frame synchronization in to control camera 1×, non-isolated	Frame synchronization in to control camera 1×, non-isolated	Frame synchronization in to control camera 1×, non-isolated	Frame synchronization in to control camera 1×, non-isolated	Frame synchronization in to control camera 1×, non-isolated							
in Synchronization in, type	LVC Buffer @3.3V, "0″ <0.8 V, "1″>2.0 V.	LVC Buffer @3.3V, "0″ <0.8 V, "1″>2.0 V.	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.	LVC Buffer @3.3V, ``0" <0.8 V, ``1">2.0 V.	LVC Buffer @3.3V, ``0" <0.8 V, ``1">2.0 V.	LVC Buffer @3.3V, "0" <0.8 V, "1">2.0 V.							
Synchronization out, purpose	Frame synchronization out to control another FLIR Ax5 camera	Frame synchronization out to control another FLIR Ax5 camera	Frame synchronization out to control another FLIR Ax5 camera	Frame synchronization out to control another FLIR Ax5 camera	Frame synchronization out to control another FLIR Ax5 camera	Frame synchronization out to control another FLIR Ax5 camera	Frame synchronization out to control another FLIR Ax5 camera							
Synchronization out	1×, non-isolated	1×, non-isolated	1×, non-isolated	1×, non-isolated	1×, non-isolated	1×, non-isolated	1×, non-isolated							
Synchronization out, type	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= - 24 mA max.	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= - 24 mA max.	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= - 24 mA max.	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= - 24 mA max.	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= - 24 mA max.	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= - 24 mA max.	LVC Buffer @ 3.3V, "0"=24 MA max, "1"= - 24 mA max.							
	12-pole M12 connector (shared with Digital I/O and External power)	12-pole M12 connector (shared with Digital I/O and External power)	12-pole M12 connector (shared with Digital I/O and External power)	12-pole M12 connector (shared with Digital I/O and External power)	12-pole M12 connector (shared with Digital I/O and External power)	12-pole M12 connector (shared with Digital I/O and External power)	12-pole M12 connector (shared with Digital I/O and External power)							
Power syste	m													
External power operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max.							
External power, connector type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)							
Voltage	Allowed range 10-30 VDC	Allowed range 10-30 VDC	Allowed range 10–30 VDC	Allowed range 10-30 VDC	Allowed range 10-30 VDC	Allowed range 10-30 VDC	Allowed range 10–30 VDC							
Environmen	tal data													
Operating temperature range	-15°C to +50°C (+5°F to +122°F) The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.	-15°C to +50°C (+5°F to +122°F) The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.	-15° C to $+60^{\circ}$ C ($+5^{\circ}$ F to $+140^{\circ}$ F) The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.	-15° C to $+60^{\circ}$ C ($+5^{\circ}$ F to $+140^{\circ}$ F) The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.	-15° C to $+60^{\circ}$ C ($+5^{\circ}$ F to $+140^{\circ}$ F) The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.	-15°C to +60°C (+5°F to +140°F) The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.	-15° C to $+60^{\circ}$ C $(+5^{\circ}$ F to $+140^{\circ}$ F) The operating temperature range assumes that the camera is mounted on the base support (included in the package) or a similar type of heatsink.							
Storage temperature range	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)							
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)							
ЕМС	 EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B 	 EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B 	 EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B 	 EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B 	 EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B 	 EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B 	 EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B 							
Encapsulation					(Emission) IP 40 (IEC 60529) with base support mounted	(Emission) IP 40 (IEC 60529) with base support mounted	(Emission) IP 40 (IEC 60529) with base support mounted							
Shock Vibration	base support mounted 25 g (IEC 60068-2-27) 2 g (IEC 60068-2-6)	base support mounted 25 g (IEC 60068-2-27) 2 g (IEC 60068-2-6)	base support mounted 25 g (IEC 60068-2-27) 2 g (IEC60068-2-6) and MIL-STD810G	base support mounted 25 g (IEC 60068-2-27) 2 g (IEC60068-2-6) and MIL-STD810G	base support mounted 25 g (IEC 60068-2-27) 2 g (IEC60068-2-6) and MIL-STD810G	base support mounted 25 g (IEC 60068-2-27) 2 g (IEC60068-2-6) and MIL-STD810G	base support mounted 25 g (IEC 60068-2-27) 2 g (IEC60068-2-6) and MIL-STD810G							
Physical dat	_													

Weight	0.200 kg (0.44 lb.)	0.200 kg (0.44 lb.)	-	-	-	-	-
Camera size (L × W × H)	$106 \times 40 \times 43 \text{ mm}$ (4.2 $\times 1.6 \times 1.7 \text{ in.}$)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)	$104.1 \times 49.6 \times 46.6$ mm (4.1 × 1.9 × 1.8 in.)	196.4 × 82.0 × 82.0 mm (7.7 × 3.2 × 3.2 in.)	$104.1 \times 49.6 \times 46.6$ mm (4.1 × 1.9 × 1.8 in.)	107.8 × 49.6 × 46.6 mm (4.2 × 1.9 × 1.8 in.)	144.1 × 58.4 × 58.4 mm (5.7 × 2.3 × 2.3 in.)
Tripod mounting	$1 \times$ UNC 1/4"-20 (with Base support accessory, included in the delivery box)	$1 \times$ UNC ¹ / ₄ "-20 (with Base support accessory, included in the delivery box)	$1 \times$ UNC ¹ / ₄ "-20 (with Base support accessory, included in the delivery box)	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)	1 × UNC ¼"-20 (with Base support accessory, included in the delivery box)
Base mounting	$4 \times M3$ thread mounting holes (bottom)	$4 \times M3$ thread mounting holes (bottom)	$4 \times M3$ thread mounting holes (bottom)	$4 \times M3$ thread mounting holes (bottom)	$4 \times M3$ thread mounting holes (bottom)	4 × M3 thread mounting holes (bottom)	$4 \times M3$ thread mounting holes (bottom)
Housing material	Magnesium and aluminum	Magnesium and aluminum	Magnesium and aluminum	Magnesium and aluminum	Magnesium and aluminum	Magnesium and aluminum	Magnesium and aluminum
Shipping info	ormation						
Packaging, type List of contents	Cardboard box • Hard transport case • Infrared camera with lens • Base support • Cable tie (2 ea.) • Ethernet cable CAT-6, 2m/6.6 ft (2 ea.) • FLIR ResearchIR Standard 4 • Focus adjustment tool • Gooseneck • Mains cable kit (UK,EU,US) • PoE Injector (power over Ethernet) • Printed documentation • Table stand	Cardboard box • Hard transport case • Infrared camera with lens • Base support • Cable tie (2 ea.) • Ethernet cable CAT-6, 2m/6.6 ft (2 ea.) • FLIR ResearchIR Standard 4 • Focus adjustment tool • Gooseneck • Mains cable kit (UK,EU,US) • PoE Injector (power over Ethernet) • Printed documentation • Table stand	Cardboard box • Infrared camera with lens • Base support • Focus adjustment tool • Printed documentation	Cardboard box • Infrared camera with lens • Base support • Printed documentation	Cardboard box • Infrared camera with lens • Base support • Focus adjustment tool • Printed documentation	Cardboard box Infrared camera with lens Base support Printed documentation 	Cardboard box • Infrared camera with lens • Base support • Printed documentation
Packaging, weight		5.3 kg (11.7 lb.)	-	-	-	-	-
5	295 × 200 × 105 mm (11.6 × 7.9 × 4.1 in.)	370 × 180 × 320 mm (14.6 × 7.1 × 12.6 in.)	-	-	-	-	-
EAN-13	7332558011829	7332558010624	7332558011621	7332558012321	7332558011102	7332558011119	7332558012314
UPC-12	845188012915	845188011291	845188012571	845188013431	845188011970	845188011987	845188013424
Country of origin	Estonia	Sweden	Sweden	Sweden	Sweden	Sweden	Sweden