



Metadata

Table with 8 columns (Part No., Product name, Revision, Last modified) and 8 rows of product metadata.

Imaging and optical data

Table with 8 columns and 12 rows of imaging and optical data including resolution, thermal sensitivity, FOV, focus distance, focal length, IFOV, F-number, image frequency, and focus.

Detector data

Table with 8 columns and 5 rows of detector data including detector type, spectral range, detector pitch, and detector time constant.

Measurement

Table with 8 columns and 2 rows of measurement data including object temperature range and accuracy.

Measurement analysis

Table with 8 columns and 6 rows of measurement analysis data including atmospheric transmission correction, optics transmission correction, emissivity correction, reflected apparent temperature correction, external optics/windows correction, and measurement corrections.

Ethernet

Table with 8 columns and 6 rows of Ethernet data including Ethernet type, standard, connector type, communication, and image streaming.

	14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> Signal linear/DDE Temperature linear GigE Vision and GenICam compatible	14-bit 640 × 512 pixels @ 7.5 Hz <ul style="list-style-type: none"> Signal linear/DDE Temperature linear GigE Vision and GenICam compatible	14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> Signal linear/DDE Temperature linear GigE Vision and GenICam compatible	14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> Signal linear/DDE Temperature linear GigE Vision and GenICam compatible	14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> Signal linear/DDE Temperature linear GigE Vision and GenICam compatible	14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> Signal linear/DDE Temperature linear GigE Vision and GenICam compatible	14-bit 640 × 512 pixels @ 30 Hz <ul style="list-style-type: none"> Signal linear/DDE Temperature linear GigE Vision and GenICam compatible
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0 Power	Power over Ethernet, PoE IEEE 802.3af class 0 Power	Power over Ethernet, PoE IEEE 802.3af class 0 Power	Power over Ethernet, PoE IEEE 802.3af class 0 Power	Power over Ethernet, PoE IEEE 802.3af class 0 Power	Power over Ethernet, PoE IEEE 802.3af class 0 Power	Power over Ethernet, PoE IEEE 802.3af class 0 Power
Ethernet, protocols	TCP, UDP, ICMP, IGMP, DHCP, GigE Vision	TCP, UDP, ICMP, IGMP, DHCP, GigE Vision	TCP, UDP, ICMP, IGMP, DHCP, GigE Vision	TCP, UDP, ICMP, IGMP, DHCP, GigE Vision	TCP, UDP, ICMP, IGMP, DHCP, GigE Vision	TCP, UDP, ICMP, IGMP, DHCP, GigE Vision	TCP, UDP, ICMP, IGMP, DHCP, GigE Vision

Digital input/output

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	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)
Synchronization in, purpose	Frame synchronization in to control camera	Frame synchronization in to control camera	Frame synchronization in to control camera	Frame synchronization in to control camera	Frame synchronization in to control camera	Frame synchronization in to control camera	Frame synchronization in to control camera
Synchronization in	1×, non-isolated	1×, non-isolated	1×, non-isolated	1×, non-isolated	1×, non-isolated	1×, non-isolated	1×, non-isolated
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.
Digital synchronization, connector type	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 system

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

Environmental 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°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°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°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°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°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.
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)
EMC	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission) 	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission) 	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission) 	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission) 	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission) 	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission) 	<ul style="list-style-type: none"> EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 40 (IEC 60529) with base support mounted	IP 40 (IEC 60529) with base support mounted	IP 40 (IEC 60529) with base support mounted	IP 40 (IEC 60529) with base support mounted	IP 40 (IEC 60529) with base support mounted	IP 40 (IEC 60529) with base support mounted	IP 40 (IEC 60529) with base support mounted
Shock	25 g (IEC 60068-2-27)	25 g (IEC 60068-2-27)	25 g (IEC 60068-2-27)	25 g (IEC 60068-2-27)	25 g (IEC 60068-2-27)	25 g (IEC 60068-2-27)	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)	2 g (IEC 60068-2-6)	2 g (IEC60068-2-6) and MIL-STD810G	2 g (IEC60068-2-6) and MIL-STD810G	2 g (IEC60068-2-6) and MIL-STD810G	2 g (IEC60068-2-6) and MIL-STD810G	2 g (IEC60068-2-6) and MIL-STD810G

Physical data

Weight	0.200 kg (0.44 lb.)	0.200 kg (0.44 lb.)	-	-	-	-	-
Camera size (L × W × H)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)	104.1 × 49.6 × 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 × 49.6 × 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 × 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)	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 × M3 thread mounting holes (bottom)	4 × M3 thread mounting holes (bottom)	4 × M3 thread mounting holes (bottom)	4 × M3 thread mounting holes (bottom)	4 × M3 thread mounting holes (bottom)	4 × M3 thread mounting holes (bottom)	4 × 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 information

Packaging, type	Cardboard box	Cardboard box	Cardboard box	Cardboard box	Cardboard box	Cardboard box	Cardboard box
List of contents	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Infrared camera with lens Base support Focus adjustment tool Printed documentation 	<ul style="list-style-type: none"> Infrared camera with lens Base support Printed documentation 	<ul style="list-style-type: none"> Infrared camera with lens Base support Focus adjustment tool Printed documentation 	<ul style="list-style-type: none"> Infrared camera with lens Base support Printed documentation 	<ul style="list-style-type: none"> Infrared camera with lens Base support Printed documentation
Packaging, weight		5.3 kg (11.7 lb.)	-	-	-	-	-
Packaging, size	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