

# FLIR A315

Automation: speed up your design cycle with infrared

The FLIR A315 camera has features and functions that make it the natural choice for anyone who uses PC software to solve problems and for whom 320 × 240 pixel resolution is sufficient. Among its main features are GigE Vision<sup>TM</sup> and GenICam<sup>TM</sup> compliance, which makes it plug-and-play when used with software packages such as IMAQ Vision and Halcon.

# **\$FLIR**

Automotive - car seat heating

Engines manufacturing

## **Key Features:**

- Affordable
- GigE compliant GenICam
- compliant
- Trigg/synchronization/GPIO
- 16-bit 320 × 240 images @ 60 Hz, signal, temperature linear, and radiometric
- Compliant with any software that supports GenICam, including National Instruments IMAQ Vision and Stemmers Common Vision Blox
- Lenses: 25° included, 15° and 45° optional

### Typical applications:

- High-end infrared machine vision that needs temperature measurement
- Slag detection Food
- processing
- · Electronics testing
- Power resistor testing
- Automotive

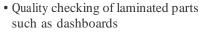
### IR Automation in Automobile Industry

Cars and commercial vehicles, engine manufacturing and subcontractors serving the industry:

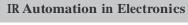
- Soldering and welding
- · Car seat heating
- Verification of window defrosting
- Heating, air conditioning functions
- Casting of plastic or metallic parts
- such as dashboards
- Friction control of tires



Food processing



- Quality checking of leather upholstery



Electronics design, PCB and component manufacture and electronics assembly:

- PCB testing, validation and verification Power electronics design
- Fault tracing in board assemblies

# FLIR A315 Technical Specifications

Field of view (FOV)   25° x 18.8°	Imaging and optical data	
Minimum focus distance   0.4m		25° x 18.8°
Focal Length   18mm   Spatial resolution   1.36mrad		
Spatial resolution		
Lens identification   Automation   F-number   Automation   F-number   Automation   F-number   Automatic or manual (built in motor)   Detector data   Detector type   FocalPlane Array (FPA), uncooled microbolometer   Spectral range   7.5-13µm   R resolution   320 x 240pixels   Detector pitch   25µm   Detector time constant   Messurement   Object temperature range   -20°C to + 120°C   Oto + 350°C   Accuracy   2°C or ±2% of reading   Messurement analysis   Atmosphere transmission   Automatic, based on inputs for distance, artmosphere temperature and relative humidity   Automatic, based on input of optics / window correction   Enfissivity correction   Variable from 0.01 to 1.0   Reflected apparent   Automatic, based on input of optics / windows correction   External optics / Automatic, based on input of optics / windows correction   External optics / Automatic, based on input of optics / windows correction   External optics / Automatic, based on input of optics / window windows correction   Externet   Control and image   Ethernet   Control and image   Ethernet, type   Gigabit Ethernet   Ethernet, standard   EEE 802.3   Ethernet, connector type   Gigabit Ethernet   Ethernet, connector type   Gigabit Ethernet   Ethernet, connector type   Image tag (start/ stop/ general), Input ext. device (programmatically read)   Digital input   2 opto-isolated, 10-30 VDC   Digital input   2 opto-isolated, 10-30 VDC   Digital put   100   120   120   120   120   120   Digital Ipo, colation voltage   1224 VDC, 24W absolute max   External power,   2-pole jackable screw terminal   External power operation   1224 VDC, 24W absolute max   External power operation   120 operating end   15°C to +50°C   EMC   -EN 61000-6-2:2001 (Immunity)   -EN 61000-6-3:2001 (Immunity	_	
F-number Thermal sensitivity/NETD Image frequency Focus Detector data Detector type Spectral range Tresolution Typical 12ms Typical 12m		
Thermal sensitivity/ NETD Image frequency Focus Automatic or manual (built in motor)  Detector data Detector type FocalPlane Array (FPA), uncooled microbolometer 7,5-13 µm IR resolution 320 x 240 pixels Detector time constant Typical 12 µm		
Image frequency   Focus		
Detector data   Detector type   Focal Plane Array (FPA), uncooled microbolometer   Spectral range   7.5-13µm   7.5-13µm   Detector pitch   25µm   Detector pitch   25µm   Detector pitch   25µm   Detector pitch   25µm   Detector time constant   Typical 12ms   Measurement   Object temperature range   -20°C to +120°C   0 to +350°C   42°C or ±2% of reading   Measurement   Automatic, based on inputs for distance, correction   atmosphere transmission   Correction   Correction   Correction   Automatic, based on signals from internal sensors   Variable from 0.01 to 1.0   Reflected apparent   Automatic, based on input of reflected temperature temperature correction   Automatic, based on input of pitics / windows correction   Control and image	-	
Detector data   Detector type   FocalPlane Array (FPA), uncooled microbolometer   Spectral range   7.5-13µm   R resolution   320 x 240pixels   Detector pitch   25µm   Detector time constant   Typical 12ms		
Detector type   Focal Plane Array (FPA), uncooled microbolometer Spectral range   7.5-13 µm   8 resolution   320 x 240 pixels		Automatic or manual (built in motor)
Spectral range   7.5-13µm     R resolution   320 x 240pixels     Detector pitch   25µm     Detector time constant     Measurement     Object temperature range   -20°C to + 120°C     Oto +350°C     Accuracy   ±2°C or ±2% of reading     Measurement analysis     Automatic, based on inputs fordistance, atmospheric temperature and relative humidity     Optics transmission correction   Automatic, based on signals from internal sensors     Emissivity correction   Automatic, based on signals from internal sensors     Emissivity correction   Automatic, based on input of reflected temperature temperature correction     External optics/   Automatic, based on input of optics/ window windows correction   transmission and temperature     External optics/   Automatic, based on input of optics/ window windows correction   transmission and temperature     Ethernet   Control and image     Ethernet, type   Gigabit Ethernet     Ethernet, connector type   Gigabit Ethernet     Ethernet, connector type   Gigabit Ethernet     Ethernet, connector type   Topic socket-based FLIR proprietary and GenlCan protocol     Digital input output   2 opto-isolated, 10-30 VDC     Digital input output   2 opto-isolated, 10-30 VDC     Digital I/O, isolation voltage   1224 VDC, max 200 mA     Digital I/O, connector type   6-pole jackable screw terminal     Pover vsvictor   External power operation   1224 VDC, 24W absolute max     External power operation   1224 VDC, 24W absolute max     External power operation   15°C to +50°C     External power and to +40°C   EN 61000-6-3:2001 (Emission)     ER 6		
Resolution   25µm   Detector time constant   Typical 12ms   Measurement   Object temperature range		-
Detector pitch Detector time constant Measurement Object temperature range Object temperature range Accuracy  42°C or ±2°C or ±20°C 0 to ±350°C  42°C or ±2% of reading  Measurement analysis Atmosphere transmission Correction Optics transmission correction Emissivity correction Automatic, based on input for distance, atmospheric temperature and relative humidity Optics transmission correction Variable from 0.01 to 1.0 External optics/ windows correction External optics/ Windows correction  Measurement corrections Ethernet Ethernet Ethernet Ethernet Ethernet, type Ethernet, type Ethernet, connector type Ethernet, connector type Digital input/output Digital input purpose Digital input 2 2 opto-isolated, 10-30 VDC Digital output, purpose Digital I/O, sopply voltage Digital I/O, sopply voltage Digital I/O, sopply voltage Digital I/O, sopply voltage Digital I/O, connector type External power, connector type  Poversystem  External power, connector type External power, connector type External power, connector type External power, connector type  External power, connector type  External power, connector type  External power, connector type  Humidity (operating and storage)  External power, connector type  External power, connector type  Humidity (operating and storage)  External power, connector type  Humidity (operating and storage)  External power, connector type  Power system  Humidity (operating and storage)  External power, connector type  Humidity (operating and storage)  External power, connector type  Humidity (operating and storage)  External power, connector type  Power system  Humidity (operating and storage)  External power, connector type  Power system  Humidity (operating and storage)  External power, connector type  Humidity (operating and storage)  External power, connector type  Power system  Humidity (operating and storage)  External power, connector type  Power system  Humidity (operating and storage)  External power, connector type  Humidity (operating and storage)  External power, connector type  Hu		
Detector time constant   Measurement   Object temperature range   -20°C to + 120°C   O to +350°C   Accuracy   ±2°C or ±2% of reading   Oto +350°C   Accuracy   ±2°C or ±2% of reading   Measurement analysis   Automatic, based on inputs for distance, atmospheric temperature and relative humidity   Optics transmission correction   Automatic, based on signals from internal sensors   Emissivity correction   Variable from 0.01 to 1.0   Reflected apparent   Automatic, based on input of reflected temperature temperature correction   External optics/   Automatic, based on input of optics/ window   windows correction   transmission and temperature   Global object parameters   Ethernet   Ethernet   Control and image   Ethernet, type   Gigabit Ethernet   Ethernet, standard   IEEE 802.3   Ethernet, connector type   RJ-45   Ethernet, connector type   RJ-45   Ethernet, communication   TCP/IP socket-based FLIR proprietary and GenlCam protocol   Digital input   output   Output   Output   Output   Output   Output   Output   Output to ext. device (programmatically set)   Output to ext. device (programmatica		
Measurement   Object temperature range		
Object temperature range  ### Accuracy  ###		Typical 12ms
Accuracy #2°C or ±2% of reading  Measurement analysis  Atmosphere transmission Automatic, based on inputs for distance, atmosphere transmission correction Purisive correction Automatic, based on signals from internal sensors Emissivity correction Variable from 0.01 to 1.0  Reflected apparent Automatic, based on input of reflected temperature temperature correction External optics/ Automatic, based on input of potics/ window windows correction transmission and temperature  Measurement corrections  Ethernet  Ethernet  Control and image  Ethernet, type Gigabit Ethernet  Ethernet, connector type  Ethernet, connector type  Ethernet, connector type  Bigital input/ output  Digital input/ output  Digital input 2 2 opto-isolated, 10-30 VDC  Digital output, purpose  Digital I/O, siolation voltage  Digital I/O, siolation voltage  Digital I/O, sonpector type  External power operation  External power operation  External power operation  External power, connector type  Voltage  Environmental data  Operating temperature range  Humidity (operating and story and and analys		
Accuracy   #2°C or *2% of reading	Object temperature range	-20°C to +120°C
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Atmosphere transmission correction atmospheric temperature and relative humidity Optics transmission correction Automatic, based on inputs for distance, atmospheric temperature and relative humidity Optics transmission correction Variable from 0.01 to 1.0 Reflected apparent Automatic, based on input of reflected temperature temperature correction External optics/ Automatic, based on input of optics/ window windows correction transmission and temperature Measurement corrections Global object parameters  Ethernet Ethernet Ethernet Ethernet, type Gigabit Ethernet Ethernet, standard IEEE 802.3 Ethernet, connector type Gigabit Ethernet Ethernet, communication TCP/IP socket-based FLIR proprietary and GenICan protocol  Digital input/output  Digital input/output  Digital input Quiptut Valuation 2 opto-isolated, 10-30 VDC Digital output, purpose Output to ext. device (programmatically set) Digital I/O, isolation voltage Digital I/O, sopply voltage 12/24 VDC, max 200 mA Digital I/O, connector type Fowersystem  External power operation 1224 VDC, 24W absolute max External power, connector type Voltage Allowed range 10-30 VDC  Environmental data Operating temperature range 40°C to +70°C Humidity (operating and storage) 41°C to +50°C EMC - EN 61000-6-2:2001 (Immunity) - EN 61000-6-2:2001 (Immuni		±2°C or ±2% of reading
correction Optics transmission correction Emissivity correction Emissivity correction Emissivity correction External optics/ Windows correction Ethernet Ethernet Ethernet Ethernet, type Ethernet, connector type Ethernet, communication Digital input/ output Digital input Digital input Digital ivo, sopation voltage Digital I/O, connector type External power, connector type External power, connector type External power, connector type Environmental data Operating temperature range External power, connector type Emic External power, connector type Uoltage Emic External power, connector type Uoltage Environmental data Operating temperature range Humidity (operating and storage) Emic External power, connector type Environmental data Operating temperature range Humidity (operating and storage) Emic Emic Emic Emic Emic Emic Emic Emic		
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Emissivity correction   Variable from 0.01 to 1.0	Optics transmission correction	
Reflected apparent temperature correction  External optics/ windows correction transmission and temperature  Measurement corrections  Ethernet  Ethernet  Ethernet, type Ethernet, standard Ethernet, connector type Ethernet, communication  Digital input/ output  Digital input, purpose Digital output, purpose Digital I/O, soolation voltage Digital I/O, soolation voltage Digital I/O, connector type External power operation External power operation External power, connector type  External power, Connector type External power operation External power, connector type Voltage  Allowed range 10-30 VDC  Environmental data  Operating temperature range Humidity (operating and storage)  EMC  - EN 61000-6-2:2001 (Immunity) - EN 61000-6-2:		
temperature correction External optics/ windows correction Measurement corrections  Ethernet Ethernet Ethernet, type Ethernet, standard Ethernet, connector type Ethernet, communication  Digital input/output  Digital input/output  Digital input, purpose Digital output, purpose Digital Ov, isolation voltage Digital I/O, sopalise I/O, sopa	·	Automatic, based on input of reflected temperature
External optics/ windows correction  Measurement corrections  Ethernet  Ethernet  Ethernet  Ethernet, type  Ethernet, connector type  Ethernet, communication  Digital input/ output  Digital input purpose  Digital output, purpose  Digital I/O, isolation voltage  Digital I/O, connector type  External power operation  External power, connector type  Environmental data  Operating temperature range  Humidity (operating and storage)  Emy  Emy  Emy  Emy  Emy  Emy  Emy  Em		-
Windows correction  Measurement corrections  Ethernet  Ethernet  Ethernet  Ethernet, type  Ethernet, standard  Ethernet, connector type  Ethernet, communication  Digital input/ output  Digital input purpose  Digital input purpose  Digital output, purpose  Digital I/O, isolation voltage  Digital I/O, supply voltage  External power operation  External power, connector type  External power, connector type  External power, connector type  Environmental data  Operating temperature range  Humidity (operating and storage)  Emage tag (start/ stop/ general), Input ext. device (programmatically read)  Operating temperature range  Humidity (operating and storage)  Emage tag (start/ stop/ general), Input ext. device (programmatically set)  Output to ext. device (programmatically set)  Output to ext. device (programmatically set)  Digital I/O, isolation voltage  Digital I/O, supply voltage  Digital I/O, supply voltage  Digital I/O, supply voltage  External power operation  External power operation  External power, 2-pole jackable screw terminal  Derating temperature range  Allowed range 10-30 VDC  Environmental data  Operating temperature range  Humidity (operating and storage)  Environmental temperature range  UEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C  ENG 61000-6-3:2001 (Emission)  -FCC 47 CFR Part 15 Class B (Emission)  FOC 47 CFR Part 15 Class B (Emission)  -FCC 47 CFR Part 15 Class B (Emission)  Phy (IEC 60058-2-29)  Vibration  2 g(IEC 60068-2-29)  Vibration  Provical data  Weight  UNC 1/4*-20 (on three sides)  Example of the first temperature sides)  Example of the first temperature sides on three sides)		Automatic, based on input of optics/ window
Ethernet Ethernet, type Ethernet, standard Ethernet, connector type RJ-45 Ethernet, communication TCP/IP socket-based FLIR proprietary and GenICard protocol  Digital input/ output Digital input, purpose Image tag (start/ stop/ general), Input ext. device (programmatically read) Digital output, purpose Digital output, purpose Digital I/O, isolation voltage Digital I/O, supply voltage Digital I/O, supply voltage Digital I/O, connector type Powersystem External power operation External power, connector type Voltage Allowed range 10-30 VDC Environmental data Operating temperature range Storage temperature range -15°C to +50°C Environmental data Operating temperature range -15°C to +70°C Humidity (operating and storage) EEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C EMC -EN 61000-6-2:2001 (Immunity) -EN 61000-6-2:2001 (Immunity) -EN 61000-6-2:2001 (Emission) -FCC 47 CFR Part 15 Class B (Emission) Encapsulation 1P 40 (EC 60529) Bump 25g (EC 60068-2-29) Vibration Physical data Weight 0.7kg Camera size (L x W x H) 170 x 70 x 70 mm Tripod mounting UNC1/4*-20 (on three sides) Base mounting to the first parameters and selection of the sides)		transmission and temperature
Ethernet Ethernet, type Gigabit Ethernet Ethernet, type Gigabit Ethernet Ethernet, type Ethernet, standard IEEE 802.3 Ethernet, connector type Ethernet, connector type Ethernet, communication TCP/IP socket-based FLIR proprietary and GenICan protocol  Digital input/ output  Digital input, purpose Image tag (start/ stop/ general), Input ext. device (programmatically read) Digital output, purpose Output to ext. device (programmatically set) Digital output 2 opto-isolated, 10-30 VDC Digital I/O, isolation voltage Digital I/O, isolation voltage So0VRMS Digital I/O, supply voltage Digital I/O, connector type External power operation External power operation External power, connector type Voltage Allowed range 10-30 VDC Environmental data Operating temperature range Humidity (operating and storage) EMC -EN 61000-6-2:2001 (Immunity) -EN 61000-6-3:2001 (Emission) -FCC 47 CFR Part 15 Class B (Emission) IP 40 (IEC 600529) Bump 25g (IEC 60068-2-9) Vibration Physical data Weight O.7kg Camera size (L x W x H) Tipod mounting UNC1/4"-20 (on three sides) Base mounting Ox M thread mounting holes (on three sides)	Measurement corrections	
Ethernet, type Ethernet, type Ethernet, standard Ethernet, standard Ethernet, standard Ethernet, connector type Ethernet, connector type Ethernet, communication TCP/IP socket-based FLIR proprietary and GenICam protocol  Digital input/ output  Digital input, purpose Image tag (start/ stop/ general), Input ext. device (programmatically read) Digital input purpose Digital output, purpose Digital output, purpose Digital I/O, isolation voltage Digital I/O, isolation voltage Digital I/O, supply voltage Digital I/O, connector type Power system External power operation External power operation External power, connector type Voltage Allowed range 10-30 VDC  Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage) EMC -EN 61000-6-2:2001 (Immunity) -EN 61000-6-3:2001 (Immunity) -EN 61000-6-3:2001 (Emission) -FCC 47 CFR Part 15 Class B (Emission)  Encapsulation IP 40 (IEC 600529) Bump 25g (IEC 60068-2-9) Vibration 2 x M4 thread mounting holes (on three sides) Base mounting UNC1/4"-20 (on three sides)	Ethernet	3 1
Ethernet, type   Gigabit Ethernet   Ethernet, standard   IEEE 802.3   Ethernet, connector type   RJ-45   Ethernet, communication   TCP/IP socket-based FLIR proprietary and GenICarr protocol   Digital input/ output   Digital input, purpose   Image tag (start/ stop/ general), Input ext. device (programmatically read) Digital output, purpose   Output to ext. device (programmatically set)   Digital output   2 opto-isolated, 10-30 VDC   Digital I/O, isolation voltage   500VRMS   Digital I/O, supply voltage   12/24 VDC, max 200 mA   Digital I/O, connector type   6-pole jackable screw terminal   Powersystem   External power operation   12/24 VDC, 24W absolute max   External power,   2-pole jackable screw terminal   Connector type   Allowed range 10-30 VDC   Environmental data   Operating temperature range   -15°C to +50°C   Storage temperature range   -40°C to +70°C   Humidity (operating and storage)   +40°C   EMC   -EN 61000-6-2:2001 (Immunity)   -FC 47 CFR Part 15 Class B (Emission)   -FC 47 CFR Part 15 Class B (Emission)   Encapsulation   IP 40 (IEC 60529)   Bump   25g (IEC 60068-2-29)   Vibration   2g (IEC 60068-2-6)   Physical data   Weight   0.7kg   Camera size (L x W x H)   170 x 70 x 70 mm   Tripod mounting   UNC1/4"-20 (on three sides)		Control and image
Ethernet, standard Ethernet, connector type Ethernet, communication  Digital input/ output  Digital input, purpose Image tag (start/ stop/ general), Input ext. device (programmatically read)  Digital input Digital output, purpose Digital output, purpose Digital I/O, isolation voltage Digital I/O, supply voltage Digital I/O, connector type External power operation External power, connector type  Power stystem  External power, Connector type  Allowed range 10-30 VDC  Environmental data  Operating temperature range Humidity (operating and storage)  EMC  EMC  -EN 61000-6-2:2001 (Immunity) -FC 47 CFR Part 15 Class B (Emission) -FC 47 CFR	Ethernet type	-
Ethernet, connector type Ethernet, communication  TCP/IP socket-based FLIR proprietary and GenICamprotocol  Digital input/ output  Digital input, purpose  Image tag (start/ stop/ general), Input ext. device (programmatically read)  Digital input  2 opto-isolated, 10-30 VDC  Digital output, purpose  Output to ext. device (programmatically set)  Digital I/O, isolation voltage  Digital I/O, sopply voltage  Digital I/O, connector type  External power operation  External power, connector type  Voltage  Allowed range 10-30 VDC  Environmental data  Operating temperature range  Storage temperature range  Humidity (operating and storage)  EMC  - EN 61000-6-2:2001 (Immunity) - EN 61000-6-3:2001 (Emission) - FCC 47 CFR Part 15 Class B (Emission)  Encapsulation  IP 40 (IEC 60529)  Bump  25g (IEC 60068-2-6)  Physical data  Weight  O.7kg  Camera size (L x W x H)  Tripod mounting  Base mounting  Image tag (start/ stop/ general), Input ext. device (programmatically read)  10-20 VDC  10-20 VDC  10-20 VDC, max 100 MA  10-20 VDC, max 100 MA  10-20 VDC, max 200 mA  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  External power, connector type  Voltage  Allowed range 10-30 VDC  Environmental data  Operating temperature range  -15°C to +50°C  -16°C to +70°C  -18°C to +50°C  -18°C to +50°		- C
Ethernet, communication  TCP/IP socket-based FLIR proprietary and GenICamprotocol  Digital input/ output  Digital input, purpose  Image tag (start/ stop/ general), Input ext. device (programmatically read)  Digital input  Digital output, purpose  Digital output, purpose  Digital I/O, isolation voltage  Digital I/O, supply voltage  Digital I/O, connector type  Powersystem  External power, connector type  Voltage  Allowed range 10-30 VDC  Environmental data  Derating temperature range  Humidity (operating and storage)  Storage)  Humidity (operating and storage)  Encapsulation  Encapsulation  Encapsulation  IP 40 (IEC 60529)  Bump  25 g (IEC 60068-2-6)  Physical data  Weight  Camera size (L x W x H)  Tripod mounting  Base mounting  Image tag (start/ stop/ general), Input ext. device (programmatically set)  Dopologeneral), Input ext. device (programatically set)  Dopologeneral over, condense subset)  Dopologeneral openeral		
protocol  Digital input/ output  Digital input, purpose  Image tag (start/ stop/ general), Input ext. device (programmatically read)  Digital input  Digital input  Digital output, purpose  Digital output  Digital I/O, isolation voltage  Digital I/O, supply voltage  Digital I/O, connector type  Power system  External power operation  External power, connector type  Voltage  Allowed range 10-30 VDC  Environmental data  Derating temperature range  Humidity (operating and storage)  Storage temperature range  Humidity (operating and storage)  EMC  -EN 61000-6-2:2001 (Immunity)  -EN 61000-6-3:2001 (Emission)  -FCC 47 CFR Part 15 Class B (Emission)  Encapsulation  IP 40 (IEC 60529)  Bump  25 (IEC 60068-2-6)  Physical data  Weight  Camera size (L x W x H)  Tripod mounting  UNC 1/4"-20 (on three sides)  Dout to ext. device (programmatically read)  Lopical (10-30 VDC)  Dout to ext. device (programmatically read)  Lopical (10-30 VDC, max 100mA)  Dout No		
Digital input/ output Digital input, purpose Image tag (start/ stop/ general), Input ext. device (programmatically read) Digital input 2 opto-isolated, 10-30 VDC Digital output purpose Digital output 2 opto-isolated, 10-30 VDC, max 100mA Digital I/O, isolation voltage Digital I/O, supply voltage Digital I/O, connector type 12/24 VDC, max 200 mA Digital I/O, connector type 6-pole jackable screw terminal Power system External power operation External power, connector type Voltage Allowed range 10-30 VDC Environmental data Operating temperature range Humidity (operating and storage) Humidity (operating and storage) EMC -EN 61000-6-2:2001 (Immunity) -EN 61000-6-3:2001 (Emission) -FCC 47 CFR Part 15 Class B (Emission) Encapsulation IP 40 (IEC 60529) Bump 25g (IEC 60068-2-6) Physical data Weight O.7kg Camera size (L x W x H) Tripod mounting UNC 1/4"-20 (on three sides)  2 x M4 thread mounting holes (on three sides)	Edicinet, communication	
Digital input purpose  Image tag (start/ stop/ general), Input ext. device (programmatically read)  Digital input  2 opto-isolated, 10-30 VDC  Digital output purpose  Digital I/O, isolation voltage  Digital I/O, supply voltage  Digital I/O, connector type  Power system  External power, connector type  Voltage  Allowed range 10-30 VDC  Environmental data  Operating temperature range  Humidity (operating and storage)  Storage)  EMC  - EN 61000-6-2:2001 (Immunity) - EN 61000-6-3:2001 (Emission) - FCC 47 CFR Part 15 Class B (Emission)  Encapsulation  IP 40 (IEC 60529)  Bump  25 (IEC 60068-2-6)  Physical data  Weight  Camera size (L x W x H)  Tripod mounting  UNC 1/4"-20 (on three sides)  Output to tax, device (programmatically read)  2 opto-isolated, 10-30 VDC, max 100mA  Doutput to ext. device (programmatically set)  2 opto-isolated, 10-30 VDC, max 100mA  Doutput to ext. device (programmatically set)  2 opto-isolated, 10-30 VDC, max 100mA  Doutput to ext. device (programmatically set)  2 opto-isolated, 10-30 VDC, max 100mA  Digital I/O, solation voltage  12/24 VDC, max 200 mA  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  Power system  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  External power,  2-pole jackable screw terminal  External power,  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw	Digital input/output	protocor
(programmatically read)  Digital input Digital output, purpose Digital output, purpose Digital output Digital I/O, isolation voltage Digital I/O, solation voltage Digital I/O, soupply voltage Digital I/O, connector type External power operation External power, connector type Digital Experimental data  Operating temperature range Humidity (operating and storage) EMC EMC EMC EMC  Digital I/O, connector type  Allowed range 10-30 VDC  Environmental data  Operating temperature range FC to +50°C Storage temperature range Humidity (operating and storage) -EN 61000-6-2:2001 (Immunity) -EN 61000-6-3:2001 (Emission) -FC 47 CFR Part 15 Class B (Emission)  Encapsulation IP 40 (IEC 60529) Bump 25g (IEC 60068-2-6)  Physical data  Weight O.7kg Camera size (L x W x H) Tripod mounting UNC 1/4"-20 (on three sides)  Double A 000 VDC  Duty to ext. device (programmatically set) 2 opto-isolated, 10-30 VDC, max 100 mA  10-30 VDC, max 200 mA  10-30 VDC  Environmental data  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  External power  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  External power  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  External power  2-pole jackable screw terminal  External power  2-pole jackable screw terminal  External power  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  External power  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  External power  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  12/24 VDC, 24W		Image tag (start/ston/general) Input ext. device
Digital input Digital output, purpose Digital output, purpose Digital output Digital output Digital I/O, isolation voltage Digital I/O, supply voltage Digital I/O, supply voltage Digital I/O, connector type Digital I/O, connector type  External power operation External power, connector type Voltage Allowed range 10-30 VDC Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage) EMC Derivating temperature range EMC Derivating temperature range Digital I/O, supply voltage EMC Derivating temperature range Digital I/O, connector type Digital I/O, supply voltage Allowed range 10-30 VDC Derivating temperature range Derivative humidity +25°C to +40°C Derivative humidity +25°C to +50°C Derivative humidity +2	Digital liput, purpose	
Digital output, purpose Digital output Digital output Digital I/O, isolation voltage Digital I/O, supply voltage Digital I/O, connector type D	Digital input	
Digital output 2 opto-isolated, 10-30 VDC, max 100mA Digital I/O, isolation voltage 500VRMS Digital I/O, supply voltage 12/24 VDC, max 200 mA Digital I/O, connector type 6-pole jackable screw terminal  Power system External power operation 12/24 VDC, 24W absolute max External power, 2-pole jackable screw terminal  Voltage Allowed range 10-30 VDC  Environmental data Operating temperature range -15°C to +50°C Storage temperature range -40°C to +70°C Humidity (operating and storage) +40°C EMC -EN 61000-6-2:2001 (Immunity) -EN 61000-6-3:2001 (Emission) -FCC 47 CFR Part 15 Class B (Emission)  Encapsulation IP 40 (IEC 60529) Bump 25g (IEC 60068-2-29) Vibration 2g (IEC 60068-2-6)  Physical data Weight 0.7kg Camera size (L x W x H) 170 x 70 x 70mm Tripod mounting UNC 1/4"-20 (on three sides) Base mounting 12/24 VDC, max 200 mA 12/24		
Digital I/O, isolation voltage Digital I/O, supply voltage Digital I/O, connector type Power system External power operation External power, connector type Voltage Allowed range 10-30 VDC Environmental data Operating temperature range Humidity (operating and storage) Humidity (operating and storage) EMC ENC ENC ENC ENC ENC ENC ENC  ENC  E		
Digital I/O, supply voltage Digital I/O, connector type Power system External power operation External power, connector type Voltage Allowed range 10-30 VDC Environmental data  Operating temperature range Humidity (operating and storage) EMC EMC		
Digital I/O, connector type  Power system  External power operation  External power, connector type  Voltage  Allowed range 10-30 VDC  Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage)  Fencior Storage temperature range  Humidity (operating and storage)  Fencior Storage temperature range  Humidity (operating and storage)  Fencior Storage temperature range  Humidity (operating and storage)  Fencior Storage temperature range  Humidity (operating and storage)  Fencior Storage temperature range  Humidity (operating and storage)  Fencior Storage (Immunity)		
Power system  External power operation  External power, connector type  Voltage  Allowed range 10-30 VDC  Environmental data  Operating temperature range  Storage temperature range  Humidity (operating and storage)  **EC 60068-2-30/24 h 95% relative humidity +25°C to +40°C  EMC  -EN 61000-6-2:2001 (Immunity) -EN 61000-6-2:2001 (Emission) -FCC 47 CFR Part 15 Class B (Emission)  Encapsulation  IP 40 (IEC 60529)  Bump  25g (IEC 60068-2-29)  Vibration  2g(IEC 60068-2-6)  Physical data  Weight  O.7kg  Camera size (L x W x H)  Tripod mounting  UNC 1/4"-20 (on three sides)  Base mounting  12/24 VDC, 24W absolute max  2-pole jackable screw terminal  1800-0-30 VDC  EMC  40°C to +70°C  -EN 61000-6-2:2001 (Immunity) -EN 61000-6-2:2001 (Immunity) -EN 61000-6-2:2001 (Emission) -FCC 47 CFR Part 15 Class B (Emission)  IP 40 (IEC 60529)  Bump  25g (IEC 60068-2-29)  Vibration  2g(IEC 60068-2-20)  Vibration  2g(IEC 60068-2-20)  Vibration  UNC 1/4"-20 (on three sides)		
External power operation         12/24 VDC, 24W absolute max           External power, connector type         2-pole jackable screw terminal           Voltage         Allowed range 10-30 VDC           Environmental data         -15°C to +50°C           Operating temperature range         -40°C to +70°C           Humidity (operating and storage)         IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C           EMC         - EN 61000-6-2:2001 (Immunity) - EN 61000-6-3:2001 (Emission) - FCC 47 CFR Part 15 Class B (Emission)           Encapsulation         IP 40 (IEC 60529)           Bump         25g (IEC 60068-2-29)           Vibration         2g (IEC 60068-2-6)           Physical data         Weight           Weight         0.7kg           Camera size (L x W x H)         170 x 70 x 70mm           Tripod mounting         UNC1/4"-20 (on three sides)           Base mounting         2 x M4 thread mounting holes (on three sides)		o-pote jackable serew terfilliai
2-pole jackable screw terminal		12/24 VDC 24W -h h-t-
connector type         Allowed range 10-30 VDC           Environmental data         -15°C to +50°C           Storage temperature range         -40°C to +70°C           Humidity (operating and storage)         -40°C to +70°C           EMC         -EN 61000-6-2:2001 (Immunity)           - EN 61000-6-3:2001 (Emission)         -FCC 47 CFR Part 15 Class B (Emission)           - FC 47 CFR Part 15 Class B (Emission)         -FCC 47 CFR Part 15 Class B (Emission)           - FCC 47 CFR Part 15 Class B (Emission)         -FCC 47 CFR Part 15 Class B (Emission)           - FCC 47 CFR Part 15 Class B (Emission)         -FCC 47 CFR Part 15 Class B (Emission)           - FCC 47 CFR Part 15 Class B (Emission)         -FCC 47 CFR Part 15 Class B (Emission)           - FCC 47 CFR Part 15 Class B (Emission)         -FCC 47 CFR Part 15 Class B (Emission)           - FCC 47 CFR Part 15 Class B (Emission)         -FCC 47 CFR Part 15 Class B (Emission)           - FCC 47 CFR Part 15 Class B (Emission)         -FCC 47 CFR Part 15 Class B (Emission)           - FCC 47 CFR Part 15 Class B (Emission)         -FCC 47 CFR Part 15 Class B (Emission)           - FCC 47 CFR Part 15 Class B (Emission)         -FCC 47 CFR Part 15 Class B (Emission)           - FCC 47 CFR Part 15 Class B (Emission)         -FCC 47 CFR Part 15 Class B (Emission)           - FCC 47 CFR Part 15 Class B (Emission)         -FCC 47 CFR Part 15 Class B (Emission)		14/4 VDC, 44 W adsolute max
Voltage         Allowed range 10-30 VDC           Environmental data         -15°C to +50°C           Storage temperature range         -40°C to +70°C           Humidity (operating and storage)         IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C           EMC         - EN 61000-6-2:2001 (Immunity) - EN 61000-6-3:2001 (Emission) - FCC 47 CFR Part 15 Class B (Emission)           Encapsulation         IP 40 (IEC 60529)           Bump         25g (IEC 60068-2-29)           Vibration         2g (IEC 60068-2-6)           Physical data         Weight           Camera size (L x W x H)         170 x 70 x 70mm           Tripod mounting         UNC 1/4"-20 (on three sides)           Base mounting         2 x M4 thread mounting holes (on three sides)	I C-41	2 - 1 - 1 - 1 - 1 - 1 - 1
Environmental data           Operating temperature range         -15°C to +50°C           Storage temperature range         -40°C to +70°C           Humidity (operating and storage)         IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C           EMC         - EN 61000-6-2:2001 (Immunity) - EN 61000-6-3:2001 (Emission) - FCC 47 CFR Part 15 Class B (Emission)           Encapsulation         IP 40 (IEC 60529)           Bump         25g (IEC 60068-2-29)           Vibration         2g(IEC 60068-2-29)           Physical data         Weight           Camera size (L x W x H)         170 x 70 x 70mm           Tripod mounting         UNC 1/4"-20 (on three sides)           Base mounting         2 x M4 thread mounting holes (on three sides)		2-pole jackable screw terminal
Operating temperature range         -15°C to +50°C           Storage temperature range         -40°C to +70°C           Humidity (operating and storage)         IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C           EMC         - EN 61000-6-2:2001 (Immunity) - EN 61000-6-3:2001 (Emission) - FCC 47 CFR Part 15 Class B (Emission)           Encapsulation         IP 40 (IEC 60529)           Bump         25g (IEC 60068-2-29)           Vibration         2g(IEC 60068-2-6)           Physical data           Weight         0.7kg           Camera size (L x W x H)         170 x 70 x 70mm           Tripod mounting         UNC 1/4"-20 (on three sides)           Base mounting         2 x M4 thread mounting holes (on three sides)	connector type	
Storage temperature range	connector type Voltage	
Humidity (operating and storage)	connector type Voltage Environmental data	Allowed range 10-30 VDC
storage)         +40°C           EMC         - EN 61000-6-2:2001 (Immunity)           - EN 61000-6-3:2001 (Emission)         - FCC 47 CFR Part 15 Class B (Emission)           Encapsulation         IP 40 (IEC 60529)           Bump         25g (IEC 60068-2-29)           Vibration         2g (IEC 60068-2-6)           Physical data         Weight           Weight         0.7kg           Camera size (L x W x H)         170 x 70 x 70 mm           Tripod mounting         UNC1/4"-20 (on three sides)           Base mounting         2 x M4 thread mounting holes (on three sides)	connector type  Voltage  Environmental data  Operating temperature range	Allowed range 10-30 VDC  -15°C to +50°C
EMC	connector type  Voltage  Environmental data  Operating temperature range  Storage temperature range	Allowed range 10-30 VDC  -15°C to +50°C  -40°C to +70°C
- EN 61000-6-3:2001 (Emission) - FCC 47 CFR Part 15 Class B (Emission)  Encapsulation	connector type  Voltage  Environmental data  Operating temperature range Storage temperature range Humidity (operating and	Allowed range 10-30 VDC  -15°C to +50°C  -40°C to +70°C  IEC 60068-2-30/24 h 95% relative humidity +25°C to
- FCC 47 CFR Part 15 Class B (Emission)  Encapsulation IP 40 (IEC 60529)  Bump 25g (IEC 60068-2-29)  Vibration 2g (IEC 60068-2-6)  Physical data  Weight 0.7kg  Camera size (L x W x H) 170 x 70 x 70mm  Tripod mounting UNC 1/4"-20 (on three sides)  Base mounting 2 x M4 thread mounting holes (on three sides)	connector type  Voltage  Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage)	Allowed range 10-30 VDC  -15°C to +50°C -40°C to +70°C  IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C
Encapsulation   IP 40 (IEC 60529)	connector type  Voltage  Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage)	Allowed range 10-30 VDC  -15°C to +50°C -40°C to +70°C  IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C - EN 61000-6-2:2001 (Immunity)
Bump         25g (IEC 60068-2-29)           Vibration         2g(IEC 60068-2-6)           Physical data            Weight         0.7kg           Camera size (L x W x H)         170 x 70 x 70 mm           Tripod mounting         UNC1/4"-20 (on three sides)           Base mounting         2 x M4 thread mounting holes (on three sides)	connector type  Voltage  Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage)	Allowed range 10-30 VDC  -15°C to +50°C -40°C to +70°C IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C -EN 61000-6-2:2001 (Immunity) -EN 61000-6-3:2001 (Emission)
Vibration         2g(IEC 60068-2-6)           Physical data         Weight           Weight         0.7kg           Camera size (L xW x H)         170 x 70 x 70 mm           Tripod mounting         UNC1/4"-20 (on three sides)           Base mounting         2 x M4 thread mounting holes (on three sides)	connector type  Voltage  Environmental data  Operating temperature range  Storage temperature range  Humidity (operating and storage)  EMC	Allowed range 10-30 VDC  -15°C to +50°C -40°C to +70°C  IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C -EN 61000-6-2:2001 (Immunity) -EN 61000-6-3:2001 (Emission) -FCC 47 CFR Part 15 Class B (Emission)
Physical data           Weight         0.7kg           Camera size (L xW x H)         170 x 70 x 70 mm           Tripod mounting         UNC1/4"-20 (on three sides)           Base mounting         2 x M4 thread mounting holes (on three sides)	connector type  Voltage  Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage)  EMC  Encapsulation	Allowed range 10-30 VDC  -15°C to +50°C -40°C to +70°C IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C - EN 61000-6-2:2001 (Immunity) - EN 61000-6-3:2001 (Emission) - FCC 47 CFR Part 15 Class B (Emission) IP 40 (IEC 60529)
Weight         0.7kg           Camera size (L xW x H)         170 x 70 x 70 mm           Tripod mounting         UNC 1/4"-20 (on three sides)           Base mounting         2 x M4 thread mounting holes (on three sides)	connector type  Voltage  Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage)  EMC  Encapsulation Bump	Allowed range 10-30 VDC  -15°C to +50°C -40°C to +70°C  IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C -EN 61000-6-2:2001 (Immunity) -EN 61000-6-3:2001 (Emission) -FCC 47 CFR Part 15 Class B (Emission)  IP 40 (IEC 60529) 25g (IEC 60068-2-29)
Camera size (L xW x H)         170 x 70 x 70 mm           Tripod mounting         UNC 1/4"-20 (on three sides)           Base mounting         2 x M4 thread mounting holes (on three sides)	connector type  Voltage  Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage)  EMC  Encapsulation Bump	Allowed range 10-30 VDC  -15°C to +50°C -40°C to +70°C  IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C -EN 61000-6-2:2001 (Immunity) -EN 61000-6-3:2001 (Emission) -FCC 47 CFR Part 15 Class B (Emission)  IP 40 (IEC 60529) 25g (IEC 60068-2-29)
Tripod mounting UNC1/4"-20 (on three sides)  Base mounting 2 x M4 thread mounting holes (on three sides)	connector type  Voltage  Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage)  EMC  Encapsulation Bump Vibration	Allowed range 10-30 VDC  -15°C to +50°C -40°C to +70°C  IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C -EN 61000-6-2:2001 (Immunity) -EN 61000-6-3:2001 (Emission) -FCC 47 CFR Part 15 Class B (Emission)  IP 40 (IEC 60529) 25g (IEC 60068-2-29)
Tripod mounting UNC1/4"-20 (on three sides)  Base mounting 2 x M4 thread mounting holes (on three sides)	connector type  Voltage  Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage)  EMC  Encapsulation Bump Vibration  Physical data  Weight	Allowed range 10-30 VDC  -15°C to +50°C -40°C to +70°C  IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C - EN 61000-6-2:2001 (Immunity) - EN 61000-6-3:2001 (Emission) - FCC 47 CFR Part 15 Class B (Emission)  IP 40 (IEC 60529) 25g (IEC 60068-2-29) 2g (IEC 60068-2-6)
	connector type  Voltage  Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage)  EMC  Encapsulation Bump Vibration  Physical data  Weight	Allowed range 10-30 VDC  -15°C to +50°C -40°C to +70°C  IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C - EN 61000-6-3:2001 (Immunity) - EN 61000-6-3:2001 (Emission) - FCC 47 CFR Part 15 Class B (Emission)  IP 40 (IEC 60529) 25g (IEC 60068-2-29) 2g (IEC 60068-2-6)
Housing material Aluminium	connector type  Voltage  Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage)  EMC  Encapsulation Bump Vibration  Physical data  Weight Camera size (L x W x H)	Allowed range 10-30 VDC  -15°C to +50°C -40°C to +70°C  IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C - EN 61000-6-2:2001 (Immunity) - EN 61000-6-3:2001 (Emission) - FCC 47 CFR Part 15 Class B (Emission)  IP 40 (IEC 60529) 25g (IEC 60068-2-29) 2g (IEC 60068-2-6)  0.7kg 170 x 70 x 70mm
	connector type  Voltage  Environmental data  Operating temperature range Storage temperature range Humidity (operating and storage)  EMC  Encapsulation Bump Vibration  Physical data Weight Camera size (L x W x H) Tripod mounting	Allowed range 10-30 VDC  -15°C to +50°C -40°C to +70°C IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C - EN 61000-6-3:2001 (Immunity) - EN 61000-6-3:2001 (Emission) - FCC 47 CFR Part 15 Class B (Emission) IP 40 (IEC 600529) 25g (IEC 60068-2-29) 2g (IEC 60068-2-6)  0.7kg 170 x 70 x 70mm UNC 1/4"-20 (on three sides)

Scope of delivery	
Packaging, contents	Hard transport case or cardboard box
	Infrared camera with lens
	Calibration certificate
	Ethernet™ cable
	Mains cable
	Power cable, pig-tailed
	Power supply
	Printed Getting Started Guide
	Printed Important Information Guide
	User documentation CD-ROM
	Utility CD-ROM
	Warranty extension card or Registration card

IR lens $f = 30 \text{ mm}$ , $15^{\circ}$ incl. case
IR lens $f = 10 \text{ mm}$ , $45^{\circ}$ incl. case
Close-up 4× (100 μm) incl. case
Close-up 2×(50 μm) incl. case
Lens 76 mm (6°) with case and mounting support for A/SC3XX
Lens 4 mm (90°) with case and mounting support for A/SC3XX
Close-up 1×(25 μm) incl. case and mounting support for A/SC3XX
High temp. option +1200°C/+2192°F for FLIR T/B2XX to T/B4XX and A/SC3XX Series
Power supply for A/SC3XX and A/SC6XX
Power cord EU
Power cord US
Power cord UK
Ethernet cable CAT-6, 2m/6.6 ft.

Supplies & Accessories

Power cable, pigtailed

Hard transport case for A/SC3XX and A/SC6XX series
Delivery Box for A/SC3XX
ThermoVision™ System Developers Kit Ver. 2.6
ITC Advanced General Thermography Course – attendance, 1 pers.
ITC Advanced General Thermography Course – group of 10 pers.
ITC Level 1 Thermography Course – attendance, 1 pers.
ITC Level 1 Thermography Course – group of 10 pers.
ITC Level 2 Thermography Course – attendance, 1 pers.
ITC Level 2 Thermography Course – attendance, 1 pers.
ITC Level 2 Thermography Course – group of 10 pers.



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