

FLIR A615 med 7° linse



Track Temperature Changes, Stream Radiometric Images

The FLIR A615 produces high quality, 307,200 pixel infrared images with embedded temperature readings, so you can measure any point within the scene up to 2000°C.

The FLIR A615 is an easy-to-control, affordable, and compact thermal imaging camera for condition monitoring, process control/quality assurance, and fire prevention. This camera can be fully controlled by a PC, and is Plug and Play with third-party machine vision software such as National Instruments, Cognex, Matrox, MVtec, and Stemmer Imaging.

OVERVIEW

Focal Length 41.3 mm (1.63 in.)

Housing material Aluminium

IR Resolution 640 x 480 pixels

Packaging Size 360 x 180 x 550 mm (14.2 x 7.1 x 21.7 in.)

Contents Hard transport case or cardboard box, Thermal imaging camera with lens, Utility CD-ROM, Calibration certificate, Ethernet™ cable, USB cable (FLIR A615), Mains cable, Power cable (pig-tailed), Power supply, Printed Getting Started Guide, Printed Important Information Guide, User documentation CD-ROM, Warranty extension card or Registration card, 6-pole screw terminal (mounted on camera)

CONNECTIONS & COMMUNICATIONS

Digital I/O connector type 6-pole jackable screw terminal

Digital I/O isolation voltage 500 VRMS

Digital I/O supply voltage 12/24 VDC, max 200 mA

Digital input purpose Image tag (start, stop, general), Image flow ctrl. (Stream on/off), Input ext. device (programmatically read)

Digital Inputs 2 opto-isolated, 10–30 VDC

Digital Output Purpose Output to ext. device (programmatically set)

Digital Outputs 2 opto-isolated, 10–30 VDC, max 100 mA

Ethernet Control and image

Ethernet Communication TCP/IP socket-based FLIR proprietary and GenICam protocol

Ethernet Connector Type RJ-45

Ethernet Image Streaming 16-bit 640 x 480 pixels at 50 Hz, 16-bit 640 x 240 pixels at 100 Hz, 16-bit 640 x 120 pixels at 200 Hz (Signal linear, Temperature linear, Radiometric GigE Vision and GenICam compatible)

Ethernet Protocols TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

Ethernet Standard IEEE 802.3

Ethernet Type Gigabit Ethernet

USB Control and image

USB - Communication TCP/IP socket-based FLIR proprietary

USB - Connector Type USB Mini-B

USB - Image Streaming 16-bit 640 × 480

USB - Protocols TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP

USB - Standard USB 2 HS

ENVIRONMENTAL

Atmospheric transmission correction Automatic, based on inputs for distance, atmospheric temperature and relative humidity

EMC EN 61000-6-2:2001 (Immunity), EN 61000-6-3:2001 (Emission), FCC 47 CFR Part 15 Class B (Emission)

Emissivity Correction Variable from 0.01 to 1.0

Encapsulation IP 30 (IEC 60529)

Humidity (Operating and Storage) IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (77 to 104°F)

Operating Temperature Range -15°C to +50°C (+5°F to +122°F)

Shock 25 g (IEC 60068-2-27)

Storage Temperature Range -40°C to +70°C (-40 to 158°F)

Vibration 2 g (IEC 60068-2-6)

IMAGING & OPTICAL

Camera size (L x W x H) 222 × 73 × 75 mm (8.7 × 2.9 × 3.0 in.)

Camera size excl lens (L x W x H) 203 × 73 × 75 mm (8.0 × 2.9 × 3.0 in.)

Detector Pitch 17 µm

Detector Time Constant Typical 8 ms

f-number 1.0

Field of view (FOV) 15° × 11° (19° diagonal)

Focus Automatic or manual (built in motor)

Image Frequency 50 Hz (100/200 Hz with windowing)

Lens Identification Automatic

Minimum Focus Distance 0.50 m (1.64 ft.)

Spatial resolution (IFOV) 0.41 mrad

MEASUREMENT & ANALYSIS

Accuracy ±2°C or ±2% of reading

External Optics & Windows Correction Automatic, based on input of optics/window transmission and temperature

Measurement Corrections Global object parameters

Object Temperature Range -20 to +150°C +100 to +650°C +300 to +2000°C

Optics Transmission Correction Automatic, based on signals from internal sensors

Reflected apparent temperature correction Automatic, based on input of reflected temperature

Thermal Sensitivity/NETD < 0.05°C @ +30°C (86°F) / 50 mK

POWER

External Power Connector Type 2-pole jackable screw terminal

External Power Operation 12/24 VDC, 24 W absolute max

Voltage Allowed range 10–30 VDC

Tekniske Data:

og R&D

Oppløsning: 640x480

Kommunikasjon: Ethernet

Fokus: Auto

Tilbehør

EAN

200300

EL.NR

200300

Produkt

Kalibrering termografikamera (320x240 og høyere) 6 punkter