

## P/N: 72002-0202

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### Website

<http://www.flir.com>


### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



 <b>NOTE</b>	
Only educational institutions are eligible for purchasing this product.	
<b>Imaging and optical data</b>	
NETD	100 mK
Field of view	41° × 31°
Minimum focus distance	<ul style="list-style-type: none"> <li>Thermal: 0.15 m (0.49 ft.)</li> <li>MSX: 1.0 m (3.3 ft.)</li> </ul>
Focal length	1.54 mm (0.061 in.)
Spatial resolution (IFOV)	11 mrad
F-number	1.1
Image frequency	9 Hz
Focus	Focus free
<b>Detector data</b>	
Focal Plane Array	Uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
IR sensor size	80 × 60
<b>Image presentation</b>	
Display (color)	<ul style="list-style-type: none"> <li>3.0 in.</li> <li>320 × 240 pixels</li> </ul>
Display, aspect ratio	4:3
Auto orientation	Yes
Touch screen	Yes, capacitive
Image adjustment (alignment calibration)	Yes
<b>Image presentation modes</b>	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Gallery	Yes

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#72002-0202; r. /35008; en-US

<b>Measurement</b>	
Object temperature range	-10°C to +150°C (14 to 302°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
<b>Measurement analysis</b>	
Spotmeter	On/off
Emissivity correction	Yes; matt/semi-matt/semi-glossy + custom value
Measurements correction	<ul style="list-style-type: none"> <li>Emissivity</li> <li>Reflected apparent temperature</li> </ul>
<b>Set-up</b>	
Color palettes	<ul style="list-style-type: none"> <li>Iron</li> <li>Rainbow</li> <li>Rainbow HC</li> <li>Gray</li> </ul>
Set-up commands	Local adaptation of units, language, date and time formats
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simpl. Chinese, Spanish, Swedish, Trad. Chinese, Turkish.
<b>Lamp</b>	
Output power	0.85 W
Field of view	60°
<b>Service functions</b>	
Camera software update	Using FLIR Tools
<b>Storage of images</b>	
Storage media	Internal memory store at least 500 sets of images
Image file format	<ul style="list-style-type: none"> <li>Standard JPEG</li> <li>14-bit measurement data included</li> </ul>
<b>Video streaming</b>	
Non-radiometric IR video streaming	Yes
Visual video streaming	Yes
<b>Digital camera</b>	
Digital camera	640 × 480 pixels
Digital camera, focus	Fixed focus
<b>Data communication interfaces</b>	
USB, connector type	USB Micro-B: Data transfer to and from PC
USB, standard	USB 2.0

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<b>Power system</b>	
Battery type	Rechargeable Li-ion polymer battery
Battery voltage	3.7 V
Battery operating time	2 h
Charging system	Charged inside the camera
Charging time	1.5 h
External power operation	<ul style="list-style-type: none"> <li>AC adapter, 90–260 VAC input</li> <li>5 V output to camera</li> </ul>
Power management	Automatic shut-down
<b>Environmental data</b>	
Operating temperature range	–10°C to +50°C (14 to 122°F)
Storage temperature range	–40°C to +70°C (–40 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) / 2 cycles
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non condensing
EMC	<ul style="list-style-type: none"> <li>WEEE 2012/19/EC</li> <li>RoHs 2011/65/EC</li> <li>C-Tick</li> <li>EN 61000-6-3</li> <li>EN 61000-6-2</li> <li>FCC 47 CFR Part 15 Class B</li> </ul>
Magnetic fields	EN 61000-4-8
Battery regulations	UL 1642
Encapsulation	Camera housing and lens: IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
<b>Physical data</b>	
Weight (incl. Battery)	0.13 kg (0.29 lb.)
Size (L × W × H)	125 × 80 × 24 mm (4.9 × 3.1 × 0.94 in.)
Tripod mounting	Yes
Housing material	<ul style="list-style-type: none"> <li>PC and ABS, partially covered with TPE</li> <li>Aluminum</li> </ul>
Color	Black and gray



## FLIR C2 Educational Kit

P/N: 72002-0202

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Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Infrared camera</li><li>• Lanyard</li><li>• Power supply/charger with EU, UK, US, CN and Australian plugs</li><li>• Printed documentation</li><li>• Tripod mount</li><li>• FLIR C2 educational kit card with download links for FLIR Tools+, FLIR ResearchIR Standard (incl. printed license key), and educational resources.</li><li>• USB cable</li></ul>
Packaging, weight	0.53 kg (1.17 lb.)
Packaging, size	175 × 115 × 75 mm (6.9 × 4.5 × 3.0 in.)
EAN-13	4743254002067
UPC-12	845188011376
Country of origin	Estonia

### Supplies & accessories:

- T198532; Car charger
- T198534; Power supply USB-micro
- T198533; USB cable Std A <-> Micro B
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB





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## CE Declaration of Conformity

This is to certify that the System listed below has been designed and manufactured to meet the requirements, as applicable, of the following EU-Directives and corresponding harmonising standards. The systems consequently meet the requirements for the CE-mark.

Directives:

**Directive 2004/108/EC:**

**Electromagnetic Compatibility**

**Directive 2011/65/EC:**

**Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS recast)**

Standards:

**Information technology:**

**EN 55022**

**Radio disturbance characteristics - (AC:2011)**

**Information technology:**

**EN 55024**

**Immunity characteristics - (CISPR 24:2010)**

**RoHS:**

**EN 50581**

**Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances**

Additional standards:

**Emission:**

**EN 61000-6-3**

**Electromagnetic Compatibility  
Generic standards - Emission**

**Immunity:**

**EN 61000-6-2**

**Electromagnetic Compatibility  
Generic standards - Immunity**

**System:**

**FLIR CX-series**

FLIR Systems AB  
Quality Assurance

  
Björn Svensson  
Director, Quality Assurance