Technical Data
FLIR B335 (9 Hz)

Part number:

45610-0201

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Corporate Headquarters

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
Telephone: +1-503-498-3547

Website

http://www.flir.com

Customer support

http://support.flir.com

Legal disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply.

Information and equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited.

Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV) / Minimum focus distance	25° × 19° / 0.4 m (1.31 ft.)
Spatial resolution (IFOV)	1.36 mrad
Image frequency	9 Hz
Focus	Automatic or manual
Zoom	1–4× continuous, digital zoom, including panning
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.5–13 µm

Image presentation

Display	Built-in touch screen, 3.5 in. LCD, 320 × 240 pixels
Image modes	IR image, visual image, picture in picture, thumbnail gallery
Picture in Picture	Resizable and movable IR area on visual image

Measurement

Object temperature range	−20°C to +120°C (−4°F to +248°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis

Spotmeter	5
Area	5 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Isotherm	Detect high/low temperature/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm

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Set-up

Color palettes	BW, BW inv, Iron, Rain, RainHC, Bluered
Set-up commands	Local adaptation of units, language, date and time formats

Storage of images

Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	IR/visual images; simultaneous storage of IR and visual images

Image annotations

Voice	60 seconds
Text	Text from predefined list or soft keyboard on touch screen
Image marker	4 on IR or visual image
Sketch	From touch screen
External sensors	Possible to connect (Bluetooth®): Extech Moisture Meter MO297 Extech Clamp Meter EX845
Report generation	• Instant Report (*.pdf file) in camera including IR and visual images • Separate PC software with extensive report generation

Video recording in camera and video streaming

Radiometric IR-video streaming	Full dynamic to PC using USB
Non-radiometric IR-video streaming	MPEG-4 to PC using USB

Digital camera

Built-in digital camera	3.1 Mpixel (2048 × 1536 pixels), and video lamp
Built-in digital lens data	FOV 53° × 41°

Laser pointer

Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image

Data communication interfaces

Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video, head-set connection
Bluetooth	Communication with headset and external sensors, using USB adapter
Wi-Fi	Peer to peer (adhoc) or infrastructure (network), using USB adapter
USB	• USB-A: Connect external USB device • USB Mini-B: Data transfer to and from PC / streaming MPEG-4

Power system

Battery	Li Ion, 4 hours operating time
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Power management	Automatic shutdown and sleep mode (user selectable)

Environmental data

Operating temperature range	−15°C to +50°C (+5°F to +122°F)
Storage temperature range	−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)

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Environmental data

Encapsulation	Camera housing and lens: IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)

Physical data

Camera weight, incl. battery	0.88 kg (1.94 lb.)
Camera size (L × W × H)	106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20

Shipping information

- Hard transport case
- Infrared camera with lens
- Battery (2 ea.)
- Battery charger
- Bluetooth® USB micro adapter
- Calibration certificate
- Downloads brochure
- FLIR QuickReport™ PC software CD-ROM
- Headset
- Memory card with adapter
- Power supply, incl. multi-plugs
- Printed Getting Started Guide
- Printed Important Information Guide
- Service & training brochure
- Sunshield
- USB cable
- User documentation CD-ROM
- Video cable
- Warranty extension card
- Wi-Fi USB micro adapter (depending on CE and FCC regulations regarding wireless equipment for your country)

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