

### P/N: 90204-0101

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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 with any questions.



Imaging and optical data	
Infrared resolution	640 × 480 pixels
UltraMax (super-resolution)	Yes
NETD	<ul> <li>&lt;40 mK, 24° @ +30°C (+86°F)</li> <li>&lt;50 mK, 14° @ +30°C (+86°F)</li> </ul>
Field of view	• 24° × 18° • 14° × 10°
Minimum focus distance	0.15 m (0.49 ft.), 24°     1.0 m (3.28 ft.), 14°
Minimum focus distance with MSX	0.5 m (1.64 ft.), 24°     1.0 m (3.28 ft.), 14°
Focal length	• 17 mm (0.67 in.), 24° • 29 mm (1.41 in.), 14°
Spatial resolution (IFOV)	0.66 mrad/pixel, 24°     0.38 mrad/pixel, 14°
Available extra lenses	42° (AutoCal)
Lens identification	Automatic
f number	• 1.3, 24° • 1.5, 14°
Image frequency	30 Hz

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Imaging and optical data	
Focus	Continuous LDM
	One-shot LDM     One-shot contrast
	Manual
Field of view match	Yes
Digital zoom	1–8× continuous
Detector data	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	12 μm
Image presentation	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m²)	400
Screen size	4 in.
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	1
Viewfinder	No
Image adjustment	Automatic
	Automatic maximum
	Automatic minimum     Manual
Image presentation modes	
Infrared image	Yes
Visual image	Yes
Thermal fusion	No
MSX	Yes
Picture in Picture	Resizable and movable
Gallery	Yes
Measurement	
Camera temperature range	• -20 to 120°C (-4 to 248°F)
	0 to 650°C (32 to 1202°F)     300 to 1500°C (572 to 2732°F)
Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F)	Range –20 to 120°C (–4 to 248°F):
a	<ul> <li>-20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)</li> <li>100 to 120°C (212 to 248°F): ±2%</li> </ul>
	Range 0 to 650°C (32 to 1202°F):
	<ul> <li>0 to 100°C (32 to 212°F): ±2°C (±3.6°F)</li> <li>100 to 650°C (212 to 1202°F): ±2%</li> </ul>
	Range 300 to 1500°C (572 to 2732°F): ±2%

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Inspection mode		
Measurement analysis   Spotmeter   3 in live mode	Inspection mode	
Spotmeter 3 in live mode Area 3 in live mode Area 3 in live mode Automatic hot/cold detection Auto-maximum/minimum markers within area Measurement presets - No measurements - Center spot - Hot spot - Cold spot - User preset 1 - User preset 2  Difference temperature Yes Reference temperature Yes Emissivity correction Yes: variable from 0.01 to 1.0 or selected from materials list Measurement corrections Yes External optics/windows correction Yes External optics/windows correction Yes  Alarm - Color alarm (isotherm) - Above - Below - Below - Interval - Condensation (moisture/humidity/dewpoint) - Insulation  Measurement function alarm Audible/visual alarms (above/below) on any selected measurement function  Set-up - Arctic - White hot - Black h	FLIR Inspection route	Enabled in the camera
Area 3 in live mode Automatic hot/cold detection Auto-maximum/minimum markers within area  Measurement presets - No measurements - Center spot - Hot spot - Cold spot - User preset 1 - User preset 2  Difference temperature - Yes  Emissivity correction Yes: variable from 0.01 to 1.0 or selected from materials list  Measurement corrections Yes External optics/windows correction Yes  Alarm - Above - Below - Interval - Interval - Color alarm (isotherm) - Above - Below - Interval - Insulation - Insulation  Measurement function alarm - Audible/visual alarms (above/below) on any selected measurement function  Set-up  Color palettes - Arctic - White hot - Black hot - Iron - Black hot - Iron - Rainbow HC  Setup commands Local adaptation of units, language, date and time formats  Languages 21  Service functions - Insulation	Measurement analysis	
Automatic hot/cold detection  Measurement presets  - No measurements - Center spot - Hot spot - Cold spot - User preset 1 - User preset 2  Difference temperature  Yes  Reference temperature  Yes: variable from 0.01 to 1.0 or selected from materials list  Measurement corrections  Yes  External optics/windows correction  Yes  Alarm  Color alarm (isotherm)  - Above - Below - Interval - Condensation (moisture/humidity/dewpoint) - Insulation  Measurement function alarm  Audible/visual alarms (above/below) on any selected measurement function  Set-up  Color palettes  - Arctic - White hot - Black hot - Iron - Lava - Rainbow HC  Setup commands  Local adaptation of units, language, date and time formats  Local adaptation of units, language, date and time formats  Camera software update  Using USB cable or SD card  Storage of images  Storage media  Removable memory; SD card (8 GB)  Time lapse (periodic image storage)  Remote control operation  Using USB cable or Wi-Fi  Image file format  Standard JPEG, measurement data included. Infrared-only mode  Image annotations  Voice  60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video  Text  Text from predefined list or soft keyboard on	Spotmeter	3 in live mode
No measurements   No measurements   Center spot   Hot spot   Cold spot   September   Center spot   Cold spot   September   Center spot   Cen	Area	3 in live mode
Not nessuriments   Center spot   Hot spot   Cold spot   Suser preset 2	Automatic hot/cold detection	Auto-maximum/minimum markers within area
Reference temperature  Emissivity correction  Yes: variable from 0.01 to 1.0 or selected from materials list  Measurement corrections  External optics/windows correction  Alarm  Color alarm (isotherm)  Above Below Interval Condensation (moisture/humidity/dewpoint) Interval Insulation  Measurement function alarm  Audible/visual alarms (above/below) on any selected measurement function  Set-up  Color palettes  Arctic White hot Black hot Iron Lava Rainbow Rainbow HC  Setup commands  Local adaptation of units, language, date and time formats  Languages  21  Service functions  Camera software update  Using USB cable or SD card  Storage media Removable memory; SD card (8 GB)  Time lapse (periodic image storage)  Remote control operation  Using USB cable or Wi-Fi Image file format  Image annotations  Voice  Go seconds built-in microphone and speaker (and via Bluetooth) on still images and video  Text  Text from predefined list or soft keyboard on	Measurement presets	<ul><li>Center spot</li><li>Hot spot</li><li>Cold spot</li><li>User preset 1</li></ul>
Emissivity correction Yes: variable from 0.01 to 1.0 or selected from materials list  Measurement corrections Yes  External optics/windows correction  Alarm  Color alarm (isotherm)  Above Below Interval Condensation (moisture/humidity/dewpoint) Insulation  Measurement function alarm  Audible/visual alarms (above/below) on any selected measurement function  Set-up  Color palettes  Arctic White hot Black hot Iron Lava Rainbow Rainbow Rainbow Commands  Local adaptation of units, language, date and time formats  Local adaptation of units, language, date and time formats  Service functions  Camera software update  Using USB cable or SD card  Storage of images  Storage media Removable memory; SD card (8 GB)  Time lapse (periodic image storage) Remote control operation  Using USB cable or Wi-Fi Image file format  Image annotations  Voice  60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video  Text  Text from predefined list or soft keyboard on	Difference temperature	Yes
materials list  Measurement corrections  External optics/windows correction  Alarm  Color alarm (isotherm)  - Above - Below - Interval - Interval - Condensation (moisture/humidity/dewpoint) - Insulation  Measurement function alarm  Measurement function alarm  Audible/visual alarms (above/below) on any selected measurement function  Set-up  Color palettes  - Arctic - White hot - Black hot - Iron - Lava - Rainbow - Rainbow HC  Setup commands  Local adaptation of units, language, date and time formats  Languages  21  Service functions  Camera software update  Using USB cable or SD card  Storage of images  Storage media  Removable memory; SD card (8 GB)  Time lapse (periodic image storage)  10 seconds to 24 hours (infrared)  Using USB cable or Wi-Fi Image file format  Standard JPEG, measurement data included. Infrared-only mode  Image annotations  Voice  60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video  Text  Text from predefined list or soft keyboard on	Reference temperature	Yes
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Alarm Color alarm (isotherm)  Page annotations  Above Below Below Interval Condensation (moisture/humidity/dewpoint) Insulation Audible/visual alarms (above/below) on any selected measurement function  Partice White hot Black hot Iron Rainbow Rainbow Rainbow Rainbow Bervice functions  Camera software update  Storage media Removable memory; SD card (8 GB)  Time lapse (periodic image storage) Remote control operation Using USB cable or Wi-Fi Image file format  Standard JPEG, measurement data included. Infrared-only mode  Image annotations  Voice  60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video  Text  Text from predefined list or soft keyboard on		Yes
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Below Interval Condensation (moisture/humidity/dewpoint) Insulation  Audible/visual alarms (above/below) on any selected measurement function  Set-up  Color palettes  Arctic White hot Black hot Iron Lava Rainbow Rainbow HC  Setup commands  Local adaptation of units, language, date and time formats  Languages  21  Service functions  Camera software update  Using USB cable or SD card  Storage of images  Storage media Removable memory; SD card (8 GB)  Time lapse (periodic image storage)  Remote control operation  Using USB cable or Wi-Fi  Image file format  Standard JPEG, measurement data included. Infrared-only mode  Image annotations  Voice  60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video  Text  Text from predefined list or soft keyboard on	Alarm	
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Languages 21  Service functions Camera software update Using USB cable or SD card  Storage of images Storage media Removable memory; SD card (8 GB) Time lapse (periodic image storage) 10 seconds to 24 hours (infrared) Remote control operation Using USB cable or Wi-Fi Image file format Standard JPEG, measurement data included. Infrared-only mode  Image annotations Voice 60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video  Text Text from predefined list or soft keyboard on	Color palettes	White hot Black hot Iron Lava Rainbow
Service functions  Camera software update  Using USB cable or SD card  Storage of images  Storage media  Removable memory; SD card (8 GB)  Time lapse (periodic image storage)  10 seconds to 24 hours (infrared)  Remote control operation  Using USB cable or Wi-Fi  Image file format  Standard JPEG, measurement data included. Infrared-only mode  Image annotations  Voice  60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video  Text  Text from predefined list or soft keyboard on	Setup commands	
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Storage of images  Storage media Removable memory; SD card (8 GB)  Time lapse (periodic image storage) 10 seconds to 24 hours (infrared)  Remote control operation Using USB cable or Wi-Fi  Image file format Standard JPEG, measurement data included. Infrared-only mode  Image annotations  Voice 60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video  Text Text from predefined list or soft keyboard on	Service functions	
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Remote control operation  Using USB cable or Wi-Fi  Image file format  Standard JPEG, measurement data included. Infrared-only mode  Image annotations  Voice  60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video  Text  Text from predefined list or soft keyboard on	Storage media	Removable memory; SD card (8 GB)
Image file format  Standard JPEG, measurement data included. Infrared-only mode  Image annotations  Voice  60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video  Text  Text from predefined list or soft keyboard on	Time lapse (periodic image storage)	10 seconds to 24 hours (infrared)
Image annotations  Voice 60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video  Text Text from predefined list or soft keyboard on	Remote control operation	Using USB cable or Wi-Fi
Voice 60 seconds built-in microphone and speaker (and via Bluetooth) on still images and video  Text Text from predefined list or soft keyboard on	Image file format	,
via Bluetooth) on still images and video  Text Text from predefined list or soft keyboard on	Image annotations	
	Voice	
	Text	



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Image annotations         Yes on infrared images only           Visual image sketch         Yes on infrared images only           Sketch         From telesconnection (Bluetooth) to: FLIR meters with METERLINK           METERLINK         Wire leaves connection (Bluetooth) to: FLIR meters with METERLINK           Compass         Yes           Laser distance meter information         Yes           Area measurement information         Yes           Area measurement information         Yes           OPS         Yes: Location data automatically added to every still image and the first frame in video from built-in GPS           Video recording in camera         RAdiometric infrared-video recording           Radiometric infrared-video recording         H.264 to memory card           Visual video recording         H.264 to memory card           Video streaming         Over UVC           Compressed: IR, MSX, visual, Picture in Picture)         • H.264 (AVC) over RTSP (Wi-Fi)           Wisual video streaming         Yes           Digital camera         • H.264 (AVC) over RTSP (Wi-Fi)           Picked         • MPEGA over RTSP (Wi-Fi)           Visual video streaming         Yes           Digital camera         Fixed           Fixed         Fixed           Fixed         Fixed		
Image sketch  Sketch  From touchscreen  METERLINK  Wireless connection (Bluetooth) to: FLIR meters with METERLINK  Compass  Laser distance meter information  Yes  Area measurement information  GPS  Yes: location data automatically added to every still image and the first frame in video from built-in GPS  Video recording in camera  Radiometric infrared-video recording  RTRR (.csq)  Non-radiometric infrared-video recording  H.264 to memory card  Video treaming  Video streaming  Compressed)  Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming  Visual video streaming  Position is automatically added to every still image and the first frame in video from built-in GPS  Video treaming  Non-radiometric infrared-video recording  H.264 to memory card  Video treaming  Video streaming  Over UVC  Compressed)  Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming  Ves  Digital camera  Resolution  5 MP with LED light  Fixed  Fixed  Fixed  Fixed  Fixed  Fixed  Video lamp  Built-in LED light  Laser pointer  Laser distance meter  Laser distance meter  Activated by a dedicated button  Class 2, 0.05-40 m (1.6-131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Microphone and speaker for voice annotation of images  USB  USB 12, High Speed  Video out	Image annotations	
Sketch From touchscreen  METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK  Compass Yes Laser distance meter information Yes  GPS Yes: location data automatically added to every still image and the first frame in video from built-in GPS  Video recording in camera  Radiometric infrared-video recording RTRR (.csq) Non-radiometric infrared-video recording H.264 to memory card  Video streaming  Video streaming  Video streaming  Video streaming  Over UVC  Compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming  Ves  Digital camera  Fesolution  5 MP with LED light  Focus  Fixed  Field of view  53° x 41°  Video lamp  Built-in LED light  Laser pointer  Laser alignment  Laser alignment  Position is automatically displayed on the infrared image  Laser distance meter  Activated by a dedicated button  Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  USB  USB Type-C: data transfer/video/power  USB 1.0 High Speed  Video out  DisplayPort	Visual image annotation	Yes
METERLINK  Wireless connection (Bluetooth) to: FLIR meters with METERLINK  Compass  Laser distance meter information  Yes  Area measurement information  Yes  GPS  Ves: location data automatically added to every still image and the first frame in video from built-in GPS  Video recording in camera  Radiometric infrared-video recording  Non-radiometric infrared-video recording  H.264 to memory card  Visual video recording  Radiometric infrared-video streaming (compressed)  Voer UVC  Voer UVC  Voer UVC  View over RTSP (Wi-Fi)  MPEG over UVC and RTSP (Wi-Fi)  MPEG over UVC and RTSP (Wi-Fi)  MPEG over UVC and RTSP (Wi-Fi)  Wisual video streaming  Ves  Digital camera  Resolution  5 MP with LED light  Focus  Fixed  Fixed  S3* × 41°  Video lamp  Built-in LED light  Laser alignment  Position is automatically displayed on the infrared image  Laser distance meter  Activated by a dedicated button  Laser  Class 2, 0.05-40 m (1.6-131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth  Audio  Wise Just Pyper C: data transfer/video/power  USB 2.0 High Speed  Video out  DisplayPort	Image sketch	Yes: on infrared images only
FLIR meters with METERLINK  Compass Yes  Laser distance meter information Yes  Area measurement information Yes  GPS Yes   Ves   Ves	Sketch	From touchscreen
Laser distance meter information  Ves  Area measurement information  Yes  Yes: location data automatically added to every still image and the first frame in video from built-in GPS  Video recording in camera  Radiometric infrared-video recording  Non-radiometric infrared-video recording  Video streaming  Video streaming  Video streaming  Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video return in Picture)  Visual video streaming  Over UVC  (compressed)  Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming  Visual video s	METERLINK	Wireless connection (Bluetooth) to:
Area measurement information  Area measurement information  Yes  Ves: location data automatically added to every still image and the first frame in video from built-in GPs  Video recording in camera  Radiometric infrared-video recording  RTRR (.csq)  Non-radiometric infrared-video recording  H.264 to memory card  Video streaming  Radiometric infrared-video streaming (compressed)  Video streaming  Radiometric infrared-video streaming (compressed)  IR, MSX, visual, Picture in Picture)  Visual video streaming  Pistual video streaming  Visual video streaming  Pistual video streaming  Pistual video streaming  Visual video streaming  Pistual vi		FLIR meters with METERLINK
Area measurement information  GPS  Yes: location data automatically added to every still image and the first frame in video from built-in GPS  Video recording in camera  Radiometric infrared-video recording  Non-radiometric infrared-video recording  H.264 to memory card  Visual video recording  H.264 to memory card  Video streaming  Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture)  Vigeo streaming  Radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming  Ves  Digital camera  Resolution  5 MP with LED light  Focus  Fixed  Field of view  53° × 41°  Video lamp  Built-in LED light  Laser alignment  Position is automatically displayed on the infrared image  Laser distance meter  Activated by a dedicated button  Class 2, 0.05-40 m (1.6-131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2, 0. Bluetooth, Wi-Fi, DisplayPort  METERLINIK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Microphone and speaker for voice annotation of images  USB  USB Type-C: data transfer/video/power  Video out  DisplayPort	Compass	Yes
Yes: location data automatically added to every still image and the first frame in video from built-in GPS  Video recording in camera  Radiometric infrared-video recording RTRR (.csq)  Non-radiometric infrared-video recording H.264 to memory card  Visual video recording H.264 to memory card  Video streaming  Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming (compressed: MPEGA over RTSP (Wi-Fi) MPEGA over RTSP (Wi-Fi) MPEGA over RTSP (Wi-Fi) MPEGA over LVC and RTSP (Wi-Fi) MPEGA over LTC and RTSP (W	Laser distance meter information	Yes
Still image and the first frame in video from builf-in GPS		
Radiometric infrared-video recording Non-radiometric infrared-video recording Visual video recording H.264 to memory card Video streaming Radiometric infrared-video streaming (compressed) Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) Visual video streaming Visual video ver RTSP (Wi-Fi)	GPS	still image and the first frame in video from built-in
Non-radiometric infrared-video recording Visual video recording H.264 to memory card Video streaming Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture) Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture) Visual video streaming Yes  Digital camera Resolution S MP with LED light Focus Fixed Field of view 53° x 41° Video lamp Built-in LED light  Laser pointer Laser alignment Position is automatically displayed on the infrared image Laser distance meter Laser USB 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLiNK/Bluetooth Microphone and speaker for voice annotation of images USB USB Type-C: data transfer/video/power USB standard Video out DisplayPort	Video recording in camera	
Video streaming  Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture)  Visual video streaming  Pigital camera  Resolution  Focus  Fixed  Field of view  Video lamp  Laser pointer  Laser distance meter  Laser  Laser  Data communication interfaces  Interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth  Microphone and speaker for voice annotation of images  USB standard  Video out  Video ver UVC  H. 2.64 (AVC) over RTSP (Wi-Fi)  H. 2.64 (AVC)	Radiometric infrared-video recording	RTRR (.csq)
Video streaming	Non-radiometric infrared-video recording	H.264 to memory card
Radiometric infrared-video streaming (compressed: IR, MSX, visual, Picture in Picture)  Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)  Pigital camera  Resolution  S MP with LED light  Fixed  Fixed  Fixed  S3° x 41°  Video lamp  Built-in LED light  Laser pointer  Laser alignment  Position is automatically displayed on the infrared image  Laser distance meter  Activated by a dedicated button  Laser  Class 2, 0.05-40 m (1.6-131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  USB 2.0 High Speed  Video out  DisplayPort	Visual video recording	H.264 to memory card
(compressed)  Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)  Pigital camera  Resolution  Focus  Fixed  Field of view  S3° x 41°  Video lamp  Built-in LED light  Laser pointer  Laser distance meter  Laser distance meter  Laser  Laser  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth  Audio  Microphone and speaker for voice annotation of images  USB 109 High Speed  Video lout  Video view  NH.264 (AVC) over RTSP (Wi-Fi)  NHPEG4 over UVC and RTSP (Wi-F	Video streaming	
IR, MSX, visual, Picture in Picture)  ** H.264 (AVC) Over RTSF (Wi-Fi) ** MPEG4 over RTSP (Wi-Fi) ** MJPEG over UVC and R		Over UVC
Digital camera  Resolution 5 MP with LED light  Focus Fixed  Field of view 53° × 41°  Video lamp Built-in LED light  Laser pointer  Laser alignment Position is automatically displayed on the infrared image  Laser distance meter Activated by a dedicated button  Laser Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth Communication with headset and external sensors  Wi-Fi Peer to peer (ad hoc) or infrastructure (network)  Audio Microphone and speaker for voice annotation of images  USB USB Type-C: data transfer/video/power  USB standard USB 2.0 High Speed  Video out DisplayPort		MPEG4 over RTSP (Wi-Fi)
Resolution 5 MP with LED light  Focus Fixed  Field of view 53° × 41°  Video lamp Built-in LED light  Laser pointer  Laser alignment Position is automatically displayed on the infrared image  Laser distance meter Activated by a dedicated button  Laser Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth Communication with headset and external sensors  Wi-Fi Peer to peer (ad hoc) or infrastructure (network)  Audio Microphone and speaker for voice annotation of images  USB USB Type-C: data transfer/video/power  USB standard USB 2.0 High Speed  Video out DisplayPort	Visual video streaming	Yes
Focus Fixed Field of view 53° x 41° Video lamp Built-in LED light  Laser pointer Laser alignment Position is automatically displayed on the infrared image Laser distance meter Activated by a dedicated button  Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth Communication with headset and external sensors Wi-Fi Peer to peer (ad hoc) or infrastructure (network)  Audio Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard USB 2.0 High Speed  Video out DisplayPort	Digital camera	
Field of view  Video lamp  Built-in LED light  Laser pointer  Laser alignment  Position is automatically displayed on the infrared image  Laser distance meter  Activated by a dedicated button  Laser  Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLINK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard  USB 2.0 High Speed  Video out	Resolution	5 MP with LED light
Video lamp       Built-in LED light         Laser pointer       Position is automatically displayed on the infrared image         Laser distance meter       Activated by a dedicated button         Laser       Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance         Data communication interfaces         Interfaces       USB 2.0, Bluetooth, Wi-Fi, DisplayPort         METERLINK/Bluetooth       Communication with headset and external sensors         Wi-Fi       Peer to peer (ad hoc) or infrastructure (network)         Audio       Microphone and speaker for voice annotation of images         USB       USB Type-C: data transfer/video/power         USB standard       USB 2.0 High Speed         Video out       DisplayPort	Focus	Fixed
Laser pointer  Laser alignment Position is automatically displayed on the infrared image  Laser distance meter Activated by a dedicated button  Laser Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLiNK/Bluetooth Communication with headset and external sensors  Wi-Fi Peer to peer (ad hoc) or infrastructure (network)  Audio Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard USB 2.0 High Speed  Video out	Field of view	53° × 41°
Laser alignment  Position is automatically displayed on the infrared image  Laser distance meter  Activated by a dedicated button  Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLiNK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard  USB 2.0 High Speed  Video out	Video lamp	Built-in LED light
image  Laser distance meter  Activated by a dedicated button  Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Data communication interfaces  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLiNK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard  USB 2.0 High Speed  Video out  DisplayPort	Laser pointer	
Laser  Class 2, 0.05–40 m (1.6–131 ft.) ±1% of measured distance  Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  METERLiNK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard  USB 2.0 High Speed  Video out  DisplayPort	Laser alignment	
measured distance       Data communication interfaces       Interfaces     USB 2.0, Bluetooth, Wi-Fi, DisplayPort       METERLiNK/Bluetooth     Communication with headset and external sensors       Wi-Fi     Peer to peer (ad hoc) or infrastructure (network)       Audio     Microphone and speaker for voice annotation of images       USB     USB Type-C: data transfer/video/power       USB standard     USB 2.0 High Speed       Video out     DisplayPort	Laser distance meter	Activated by a dedicated button
Interfaces  USB 2.0, Bluetooth, Wi-Fi, DisplayPort  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  Microphone and speaker for voice annotation of images  USB  USB Type-C: data transfer/video/power  USB standard  USB 2.0 High Speed  Video out  DisplayPort	Laser	
METERLiNK/Bluetooth  Communication with headset and external sensors  Wi-Fi  Peer to peer (ad hoc) or infrastructure (network)  Audio  Microphone and speaker for voice annotation of images  USB Type-C: data transfer/video/power  USB standard  USB 2.0 High Speed  Video out  DisplayPort	Data communication interfaces	
sensors  Wi-Fi Peer to peer (ad hoc) or infrastructure (network)  Audio Microphone and speaker for voice annotation of images  USB USB Type-C: data transfer/video/power  USB standard USB 2.0 High Speed  Video out DisplayPort	Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
Audio Microphone and speaker for voice annotation of images  USB USB Type-C: data transfer/video/power  USB standard USB 2.0 High Speed  Video out DisplayPort	METERLiNK/Bluetooth	
USB Type-C: data transfer/video/power USB standard USB 2.0 High Speed Video out DisplayPort	Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
USB standard USB 2.0 High Speed Video out DisplayPort	Audio	· ·
Video out DisplayPort	USB	USB Type-C: data transfer/video/power
	USB standard	USB 2.0 High Speed
Video connector type DisplayPort over USB Type-C	Video out	DisplayPort
	Video connector type	DisplayPort over USB Type-C



### P/N: 90204-0101

Radio	
Operating frequency	Bluetooth + EDR/LE: 2402-2480 MHz
	WLAN 2.4 GHz: 2412–2462 MHz
	WLAN 5 GHz: 5150–5350 MHz (DFS: only slave mode)
	Note that frequency band 5150–5350 MHz is for indoor use only, see national regulations.
RF output (EIRP)	Bluetooth + EDR/LE: < 10 dBm
	WLAN: < 17 dBm
Antenna	Integrated PIFA antenna (gain: maximum 1.4 dBi)
Power system	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 2.5 hours at 25°C (68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	2.5 hours to 90% capacity with charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz, or 12 V from a vehicle (cable with standard plug—optional)
Power management	Automatic shut-down and sleep mode
Environmental data	
Operating temperature range	-15 to +50°C (5-122°F)
Storage temperature range	-40 to +70°C (-40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 hours/95% relative humidity
	25–40°C (77–104°F)/two cycles
EMC	25–40°C (77–104°F)/two cycles  • ETSI EN 301 489-1 (radio) • ETSI EN 301 489-17 • EN 61000-6-2 (immunity) • EN 61000-6-3 (emission) • FCC 47 CFR part 15 B, class B (emission)
EMC Radio spectrum	<ul> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (immunity)</li> <li>EN 61000-6-3 (emission)</li> </ul>
	<ul> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (immunity)</li> <li>EN 61000-6-3 (emission)</li> <li>FCC 47 CFR part 15 B, class B (emission)</li> <li>ETSI EN 300 328</li> <li>ETSI EN 301 893</li> <li>FCC 47 CFR part 15 C</li> </ul>
Radio spectrum	<ul> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (immunity)</li> <li>EN 61000-6-3 (emission)</li> <li>FCC 47 CFR part 15 B, class B (emission)</li> </ul> ETSI EN 300 328 <ul> <li>ETSI EN 301 893</li> <li>FCC 47 CFR part 15 C</li> <li>FCC 47 CFR part 15 E</li> </ul>
Radio spectrum  Encapsulation	<ul> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (immunity)</li> <li>EN 61000-6-3 (emission)</li> <li>FCC 47 CFR part 15 B, class B (emission)</li> </ul> <ul> <li>ETSI EN 300 328</li> <li>ETSI EN 301 893</li> <li>FCC 47 CFR part 15 C</li> <li>FCC 47 CFR part 15 E</li> </ul> IP 54 (IEC 60529)
Radio spectrum  Encapsulation Shock	<ul> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (immunity)</li> <li>EN 61000-6-3 (emission)</li> <li>FCC 47 CFR part 15 B, class B (emission)</li> <li>ETSI EN 300 328</li> <li>ETSI EN 301 893</li> <li>FCC 47 CFR part 15 C</li> <li>FCC 47 CFR part 15 E</li> <li>IP 54 (IEC 60529)</li> <li>25g (IEC 60068-2-27)</li> </ul>
Radio spectrum  Encapsulation Shock Vibration	ETSI EN 301 489-1 (radio)     ETSI EN 301 489-17     EN 61000-6-2 (immunity)     EN 61000-6-3 (emission)     FCC 47 CFR part 15 B, class B (emission)      ETSI EN 300 328     ETSI EN 301 893     FCC 47 CFR part 15 C     FCC 47 CFR part 15 E  IP 54 (IEC 60529)  25g (IEC 60068-2-27)  2g (IEC 60068-2-6)
Radio spectrum  Encapsulation Shock Vibration Drop	<ul> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (immunity)</li> <li>EN 61000-6-3 (emission)</li> <li>FCC 47 CFR part 15 B, class B (emission)</li> <li>ETSI EN 300 328</li> <li>ETSI EN 301 893</li> <li>FCC 47 CFR part 15 C</li> <li>FCC 47 CFR part 15 E</li> <li>IP 54 (IEC 60529)</li> <li>25g (IEC 60068-2-27)</li> <li>2g (IEC 60068-2-6)</li> <li>Designed for 2 m (6.6 ft.)</li> </ul>
Radio spectrum  Encapsulation Shock Vibration Drop	ETSI EN 301 489-1 (radio)     ETSI EN 301 489-17     EN 61000-6-2 (immunity)     EN 61000-6-3 (emission)     FCC 47 CFR part 15 B, class B (emission)      ETSI EN 300 328     ETSI EN 301 893     FCC 47 CFR part 15 C     FCC 47 CFR part 15 E  IP 54 (IEC 60529)  25g (IEC 60068-2-27)  2g (IEC 60068-2-6)  Designed for 2 m (6.6 ft.)  Camera:
Radio spectrum  Encapsulation Shock Vibration Drop	ETSI EN 301 489-1 (radio)     ETSI EN 301 489-17     EN 61000-6-2 (immunity)     EN 61000-6-3 (emission)     FCC 47 CFR part 15 B, class B (emission)      ETSI EN 300 328     ETSI EN 301 893     FCC 47 CFR part 15 C     FCC 47 CFR part 15 E  IP 54 (IEC 60529)  25g (IEC 60068-2-27)  2g (IEC 60068-2-6)  Designed for 2 m (6.6 ft.)  Camera:     IEC/EN 60950-1, IEC/EN 62368-1

### P/N: 90204-0101

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Physical data	
Weight (including battery)	1 kg (2.2 lb.)
Size $(L \times W \times H)$	$278.4 \times 116.1 \times 113.1 \text{ mm} (11.0 \times 4.6 \times 4.4 \text{ in.})$
Battery weight	140 g (4.9 oz.)
Battery size (L × W × H)	150 × 46 × 55 mm (5.9 × 1.8 × 2.2 in.)
Tripod mounting	UNC 1/4"-20
Housing material	PCABS with TPE, magnesium
Color	Black
Warranty and service	
Warranty	http://www.flir.com/warranty/
Shipping information	
Packaging, type	Cardboard box
Packaging, contents	Accessory Box I: Power supply for battery charger Power supply, 15 W/3 A Printed documentation SD card (8 GB) USB 2.0 A to USB Type-C cable, 1.0 m USB Type-C to HDMI adapter, standard specification UH311 USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m  Accessory box II: Front protection fastener Hand strap bracket, left Hand strap bracket, left Screws Torx T10 wrench Carabiner hook Front protection Hand strap Lanyard strap, camera Lens cap strap Wrist strap  Battery (2 ea) Battery (2 ea) Battery charger Extra lens, 14° FIJR Thermal Studio Starter Hard transport case Infrared camera with lens Lens cap, front Lens cap, front and rear (only for extra lenses)
Packaging, weight	6.2 kg (13.7 lb.)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	4743254004559
UPC-12	845188022280
Country of origin	Estonia

### Supplies and accessories:

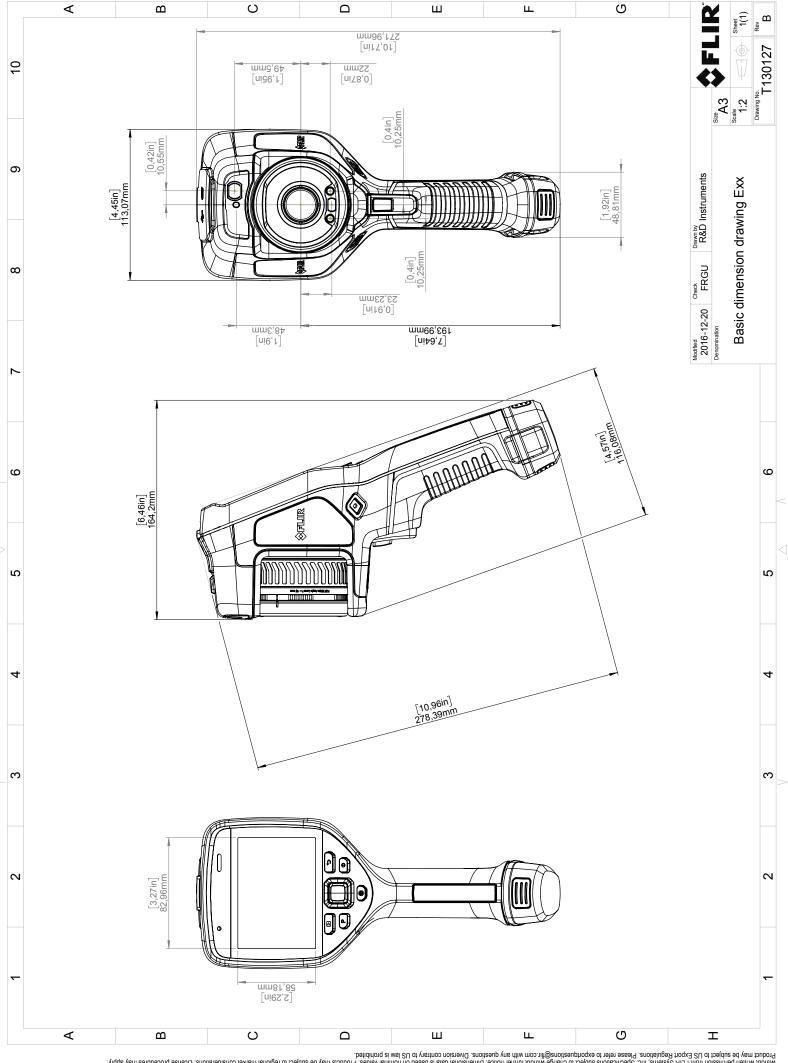
- T300238; Macro lens 2.0x with case
- T131171ACC; Remote operation button
- T300030; Option, No radioT911997; Tripod

# **\$FLIR**

### FLIR E96 24° + 14°

#### P/N: 90204-0101

- T911998; HDMI 2-port video splitter
- T300369; Mounting kit (FLIR T5xx, T8xx, Exx)
- T850111; Option, Dual streaming
- T130337ACC; Calibration target
- T199330ACC; Battery
- T199346ACC; Hard transport case for FLIR Exx series
- T199425ACC; Battery charger
- T199557ACC; Accessory Box II
- T911630ACC; Power supply for camera, 15 W/3 A
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- · T911633ACC; Power supply for battery charger
- T911689ACC; Pouch for FLIR E-series
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911706ACC; Car adapter 12 V
- T911845ACC; USB Type-C to HDMI and PD adapter
- T911846ACC; USB 2.0 A to USB Type-C with Power supply
- T300437ACC; Lens case
- T199589; IR lens, f=17 mm (24°) with case
- T199588; IR lens, f=29 mm (14°) with case
- T199590; IR lens, f=10 mm (42°) with case
- T197771ACC; Bluetooth Headset
- T300244; FLIR Route Creator Plugin for FLIR Thermal Studio Pro, 1 Year Subscription
- T300342; FLIR Screen-EST, Perpetual license
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license
- T198583; FLIR Tools+ (download card incl. license key)
- 4232535; FLIR Research Studio, Professional Edition 1 Year Subscription (online activation)
- 4232556; FLIR Research Studio, Professional Edition Perpetual License (online activation)
- 4232590; FLIR Research Studio, Professional Edition Perpetual License (USB dongle)
- · 4232557; FLIR Research Studio, Professional Edition USB dongle only
- 4220499; FLIR Research Studio, Standard Edition 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio, Standard Edition Perpetual License (online activation)
- 4220646; FLIR Research Studio, Standard Edition Perpetual License (USB dongle)
- 24971-010; FLIR Research Studio, Standard Edition USB dongle only
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- 4232591; FLIR ResearchIR to Research Studio, Professional Edition 1 Year License Upgrade
- INST-EW-0140; Extended Warranty 1 Year for E53, E75, E85, E95
- INST-EWGM-0135; Premium Service Package for A35, A65, E53, E75, E85, E95
- INST-GM-0125; General Maintenance Package for A35, A65, Exx, Kxx



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July 07, 2021 Täby, Sweden AQ320222

### CE Declaration of Conformity - EU Declaration of Conformity

Product: FLIR E53 /E54 /E75 /E76 /E85 /E86 /E95 /E96 -series

Name and address of the manufacturer:

FLIR Systems AB PO Box 7376

SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration: FLIR E53 /E54 /E75 /E76 /E85 /E86 / E95 /E96-series (Product Model Name FLIR-E7850).

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

**Directives:** 

Directive 2012/19/EU Waste electrical and electric equipment

Directive 2014/53/EU Radio Equipment Directive (RED)

Directive 1999/519/EC Limitation of exposure to electromagnetic fields (SAR)

Directive 2011/65/EU RoHS and 2015/830/EU

**Standards:** 

Emission: EN 61000-6-3/A1:2011 Electromagnetic Compability

Generic standards – Emission

Immunity: EN 61000-6-2:2005 Electromagnetic Compability

Draft EN 301489-1:2016 v2.1.0 Generic standards – Immunity

EN 301489-17:2012 v2.2.1

Laser: EN 60825-1 Safety of laser products

Radio: ETSI EN 300 328 v2.2.2 Harmonized EN covering essential

requirements of the R&TTE Directive

ETSI EN 301 893 v1.8.1 Harmonized EN covering essential regs

SAR: EN 62209-2 Human exposure Wireless

Safety (Battery charger): Information technology equipment

IEC 62368-1: 2014 (2.Edition) and Cor. 1: 2015

EN 62368-1: 2014/AC: 2015/A11: 2017/AC:2017

RoHS: EN 50581:2012 Technical documentation

**FLIR Systems AB** 

**Quality Assurance** 

Lea Dabiri

**Quality Manager**