

## Copyright

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## Document identity

Language: English  
Modified: 2017-08-22  
Formatted: 2017-08-25

## Website

<http://www.guideir.com>

## Customer support

[service@guide-infrared.com](mailto:service@guide-infrared.com)

## Disclaimer

Specifications subject to change without further notice. Please refer to [enquiry@guide-infrared.com](mailto:enquiry@guide-infrared.com) with any questions.



## Specifications

Model	C400	C640	C640P
<b>Imaging Performance</b>			
Detector type	VOx UFPA		
Spectral range	8~14μm		
Pixel size	25μm	17μm	
IR resolution	384×288	640×480	
NETD	45mK	40mK	30mK
Frame rate	25Hz		
<b>Lens</b>			
Standard lens	FOV	21.7°×16.4°	24.6°×18.5°
	Focal length	25mm	25mm
	F#	F1.0	F1.0
	Minimum focus distance	0.4m	0.3m
	IFOV	0.99mrad	0.67mrad
Optional wide-angle lens	FOV	40.5°×31.0°	45.4°×34.9°
	Focal length	13mm	13mm
	F#	F1.1	F1.1
	Minimum focus distance	0.15m	0.1m
Optional tele lens	FOV	10.0°×7.5°	11.3°×8.5°
	Focal length	55mm	55mm
	F#	F1.1	F1.1
	Minimum focus distance	2m	1.5m
Optional High temp lens	Yes	Yes	
Lens identification	Automatic/ manual		

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Focus	Automatic/ electric		
Digital zoom	1.1~4	1.1~10	
<b>Visual Camera</b>			
Resolution	5M		
Focus	Fixed		
FOV	25°x19°		
<b>Image Presentation</b>			
Display	Highlight LCD touch screen		
Screen size	5"		
Resolution	1280x720		
Color depth	24bits		
Viewfinder	Yes, 1280x960 LCOS screen		
Image modes	IR image, Visual image, MIF, Picture in picture (PIP)		
<b>Measurement Features</b>			
Temperature range	Standard	-20°C~150°C, 150°C~800°C	
	High temp	800°C~2000°C	
Accuracy	±2°C or ±2% of reading	±1°C or ±1% of reading for object temperature -20°C ~+150°C, otherwise, ±2°C or ±2%	
<b>Measurement Analysis</b>			
Spot	5	8	10
Line	5	8	10
Area	5	8	10
Auto tracking	Full image or object with Tmax/Tmin		
Isotherm	Above, below	Above, below, interval	
Delta T	Yes		
Emissivity correction	Yes: variable from 0.01 to 1.00		
Alarm	Tmax/Tmin		
Alarm mode	Color/ voice		
<b>Functions</b>			
Laser	Yes		
Wi-Fi	Yes		
Illuminator	Yes		
Digital compass	Yes		
Light sensor	Yes		
GPS	Yes		
Bluetooth	N/A	Yes	
<b>Setup</b>			
Color Palettes	8:White Hot, Fulgurite, Iron Red, Hot Iron,	10: White Hot, Fulgurite, Iron	

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	Medical, Arctic, Rainbow 1, Rainbow 2	Red, Hot Iron, Medical, Arctic, Rainbow 1, Rainbow 2, Tint, black hot
Language	21	
System setting	Temperature unit, Date and time formats, Watermark, Report, Display settings	
<b>Image storage</b>		
Image format	JPG with temp info	
Storage Medium	In camera and SD card	
<b>Image Annotations</b>		
Voice annotation	Yes, 60s	
Text annotation	Yes	
Visual image annotation	N/A	Yes, up to two images
Image marker	Yes	
<b>Video storage</b>		
Video format	H.264 with or without temp info	
Video Streaming	via GigE or Wi-Fi	
<b>Interfaces</b>		
Interfaces	USB, HDMI, SD card, Power, GigE, Tripod	
Audio	Microphone and speaker	
USB	Micro USB 2.0	
HDMI	Micro HDMI	
SD card	16G, up to 32G	
<b>Power system</b>		
Battery type	Rechargeable Li-ion battery (UN38.3 certification)	
Battery voltage	11.1V	
Operating time	≥4h	
Charging temperature	10°C~35°C	
Charging system	In camera or on separate charger	
Charging period	4h in camera, 5h in dual-bay charger	
External power supply	12V	
Power management	Automatic shut-down and sleeping mode	
<b>Environmental Parameters</b>		
Operating temp range	-10°C~+50°C	
Storage temp range	-40°C~+70°C	
Humidity	10%~95%, non-condensing	
Encapsulation	IP54	
Shock	25g ( IEC 60068-2-27 )	
Vibration	2g ( IEC 60068-2-6 )	

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Certification	CE, FCC, ROHS
<b>Physical Characteristics</b>	
Weight	1350g ( Battery included )
Dimensions	206mm×140mm×114mm
Weight of battery	162g
Dimensions of battery	73mm×40mm×37mm
Color	Red-black
<b>Shipping Information</b>	
Shipping content	<ul style="list-style-type: none"> <li>◆ Infrared camera with lens</li> <li>◆ Standard accessories               <ul style="list-style-type: none"> <li>· Li-ion Battery (2 pieces)</li> <li>· Power Adapter</li> <li>· Adapter Plug (5 pieces)</li> <li>· USB Cable</li> <li>· HDMI Cable</li> <li>· Network Cable</li> <li>· Quick Start Guide</li> <li>· User Manual</li> <li>· Product CD</li> <li>· Accessories List Card</li> <li>· Shoulder Strap</li> <li>· SD Card ( 16GB )</li> <li>· Camera Pouch</li> <li>· Charging Dock( for C640P only)</li> </ul> </li> <li>◆ Optional accessories               <ul style="list-style-type: none"> <li>· Li-ion Battery</li> <li>· HDMI to Analoge Video Converter</li> <li>· Bluetooth Headset(for C640P only)</li> <li>· Tele Lens</li> <li>· Wide Angle Lens</li> <li>· High Temp Lens</li> </ul> </li> </ul>

### Pictures of Contents



Infrared camera with lens



Power Adapter



Adapter Plugs

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Li-ion Battery



SD Card(16G)



HDMI Cable



USB Cable



Network Cable



Product CD



User Manual



Quick Start Guide



Accessories List Card



Camera Pouch



Shoulder Strap



Charging Dock



Bluetooth Headset



HDMI to Analog Video  
Converter



Wide-angle Lens



Tele Lens



High Temp Lens

