





## B400

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<b>Imaging Performance</b>				
<i>Thermal:</i>				
Field of view	25° x 18.75°	25° x 18.75°		
Spatial resolution (IFOV)	1.36 mrad	1.36 mrad		
Thermal sensitivity (at 30 °C)	70 mK	70 mK		
Image frequency	9 or 30 Hz	9 or 30 Hz		
Min focus distance	0.4 m	0.4 m		
Electronic zoom	8 x	2 x		
Pan	✓	✓		
Focusing	Manual / autofocus	Manual / autofocus		
<i>Visual:</i>				
Built-in digital video 1.3 Mpixel with lamp	✓	✓		
<b>Detector</b>				
Focal Plane array (FPA), uncooled microbolometer, spectral range, 7.5 to 13 µm	320 x 240 pixels	320 x 240 pixels		
<b>Image presentation</b>				
Built-in 3,5" high resolution touch screen LCD	✓	✓		
<b>Measurement</b>				
Temperature range	-20 °C to +120 °C (optional up to +350 °C)	-20 °C to +120 °C (optional up to +350 °C)		
Accuracy (of reading)	± 2 °C or ± 2%	± 2 °C or ± 2%		
<b>Features</b>				
Spotmeter	multiple	multiple		
Box area, Max/Min/Average value	multiple	multiple		
Box area, Max and min temp.position marker	✓	✓		
Measure hot cold temp. (color alarm incl above/below)	✓	✓		
Measure hot cold temp. - interval	✓	✓		
Difference temperature function	✓	•		
Reference temperature	✓	•		
Measure value alarms	multiple	•		
Humidity alarms (incl dew point)	✓	✓		
Insulation alarm	✓	✓		
Radiometric file format	✓	✓		
Thermal Fusion	✓	✓		
IR/visual image markers	multiple	•		
Voice comments	✓	•		
Text comments from file	✓	•		
Text comments from touch screen keyboard	✓	•		
Sketch	✓	•		
Color palettes	BW, BW inv, Iron, Rain,RainHC, blurred	BW, BW inv, Iron, Rain		
<b>Laser Pointer</b>				
Laser activated by dedicated button	✓	✓		
<b>Image storage</b>				
Removable SD-card	✓	✓		
<b>Interfaces</b>				
USB, file transfer to/from PC			✓	✓
Audio headset connection			✓	•
Standard video output: CVBS (ITU-R-BT.470 PAL/SMPT E 170M NTSC)			✓	✓
Power input			✓	✓
<b>Lenses for IR camera</b>				
Normal lens			25°	25°
Added optics, tele lens, wide angle lens			15° , 45°	15° , 45°
<b>Power system</b>				
Rechargeable Lithium-Ion battery			✓	✓
Operating time, continuous operation			4 h	4 h
Power management, automatic shut down and sleep mode			✓	✓
AC adapter, 90-260 VAC input. 12 V output to camera			✓	✓
2 bay charging system, 10-16 V input.			✓	✓
<b>Environmental specifications</b>				
Operating temperature range			-15 °C to +50 °C	-15 °C to +50 °C
Storage temperature range			-40 °C to +70 °C	-40 °C to +70 °C
Humidity, operating and storage, non-condensing			IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C	IEC 68-2-30/24 h 95% relative humidity +25°C to +40°C
Encapsulation, camera housing and lens			IP 54 (IEC 60529)	IP 54 (IEC 60529)
Encapsulation, Transport case			IP 65 (IEC 60529)	IP 65 (IEC 60529)
Bump			25 g (IEC 60068-2-29)	25 g (IEC 60068-2-29)
Vibration			2 g (IEC 60068-2-6)	2 g (IEC 60068-2-6)
EMC, emission			EN 61000-6-3:2001 (Emission)	EN 61000-6-3:2001 (Emission)
			FCC 47 CFR Part 15 Class B (Emission)	FCC 47 CFR Part 15 Class B (Emission)
EMC, immunity			EN 61000-6-2:2001 (Immunity)	EN 61000-6-2:2001 (Immunity)
<b>Physical characteristics</b>				
Weight			880 g	880 g
Size, L x W x H			106 x 201 x 125 mm	106 x 201 x 125 mm
Tripod Mounting			1/4" - 20	1/4" - 20
<b>Software</b>				
ThermaCAM QuickReport			✓	✓
ThermaCAM Reporter 8			optional	optional
ThermaCAM Reporter 8 Professional			optional	optional
<b>Languages (manuals and software)</b>				
			Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, Turkish	
<b>Included in the ThermaCAM™ B400 &amp; B360</b>				
			Carrying case, Lens cap, Battery (1), Charger, Power supply, Power cord, Manual, Headset (only B400), Video cable, USB cable, sun shield, Pen, SD Card	