

NEW! Wahl 150 & 170 Imagers



Ultra-High Sensitivity and 2 Meter Drop Test!

IR / Visible Light / Picture-in-Picture / SpyLite™

Touch Screen

Every Pixel Calibrated

Standard Lens plus 3 Optional Lenses

60Hz* or 9Hz Frame Rate

Model 170: Thermal Sensitivity ≤ 0.04°C Detector Resolution: 384 x 288

110, 592 Pixels

Model 150: Thermal Sensitivity ≤ 0.05°C

Detector Resolution: 160 x 120

19, 200 Pixels

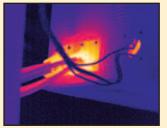
• "z" models - 60 Hz or "a" models - 9 Hz (Factory Set)("a" models for use outside USA)

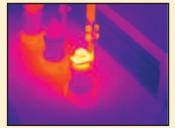
- Large 3.6" LCD Touch Screen Display for easy
- Dual LED "Head Lights" for clear, crisp visible light images even in low light conditions
- Laser Aiming pinpoints Hot Spots
- Picture-in-Picture all temperatures shown thermally over visible image
- SpyLite™ only temperatures over or under preset point shown thermally over visible image
- Thermal / Visible / PIP / SpyLite Image Saving

- Thermal / Visible / Video Recording
- 25° x 19° Field of View
- 3.2 Megapixel CMOS Sensor
- 3 Optional Lenses 0.5X / 2X and 4X FOV
- IP Address for remote viewing and sharing
- Ergonomic design for quick and easy scans
- Advanced Heat Spy Report and Analysis Software included for quick and professional reports with precise image and temperature analysis on any point in an image.
- Bluetooth for Earphone and File Sharing









Find problems quickly, easily, and safely with the Wahl z70

*Export Licensing Fee on 60Hz models may be required for your country, subject to US Government approval. No Export License required on 9Hz models.

Including

Y-CAR

The FIRST No-Fault warranty plan in the industry is **INCLUDED** with your purchase!

We will repair or replace your camera for two years, for any reason - even if it's your fault - no questions asked!

FREE Training, FREE Phone Support,

FREE Annual lifetime recalibration, inspection, and firmware upgrades. (Excludes Battery and SD Card, see

Spy-Care flyer on our website for more details.)

Heat Spy® is a registered trademark of Wahl Instruments, Inc.

Specifications subject to change without notice

	150 a 170 Cavias Theymol						
	150 • 170 Series Therm				lai		
Model Number Frame Rate	a150 9Hz	z150 60Hz*	a170 9Hz	z170 60Hz*			
Traille nate	3112		erformance	00112			
Detector Type	Uncooled Microbolometer Focal Plane Array (FPA)						
Detector Resolution	160 >	120	384	x 288	П		
Number of Pixels	19,	200	110	,592			
Field of View (FOV)		25° 2	k 19°				
Spatial Resolution (IFOV)	2.73 mrad 1.37 mrad**		nrad**				
Thermal Sensitivity	≤ 0.05	@ 30°C	≤ 0.04 @ 30°C				
Focus Range		0.5 m to ∞	and beyond				
Focus Type	Manual			B			
IR Digital Zoom	X 2 or X 4						
Spectral Range	8 - 14µm				Į.		
Visible Light Camera	3.2 Megapixel CMOS Sensor, Dual LED Head Lights						
Wide Angle Lens Option							
Telephoto Lens Option	OV) 2.73 mrad 1.37 mrad** vity ≤ 0.05 @ 30°C S 0.04 @ 30° Manual X 2 or X 4 Manual X 2 or X 4 Manual X 2 or X 4 Manual A 3.2 Megapixel CMOS Sensor, Dual LED Head L Co.5X magnification allows for a 50° x 38° FO 2X magnification allows for a 12.5° x 9.5° FO 4X magnification allows for a 6.25° x 4.75° FO 4X magnification allows for a 6.25° x 4.75° FO Manual Fast switch between Thermal, Visible Light or Picture-in-Picture ² or SpyLite ³ High Resolution 3.6" Color LCD Touch Screen, 64 11 Display Color Palettes: Ironbow; Negative Grayscale; Amber; Hot Metal; Cool Metal; Rainbow Green, 64 align and High Contrast Violet-White Image Adjustment: Auto Ranging / Manual Level and Adjustable Display Brightness and Contrast		-				
Thermal/Visible Light	Fast switch between Thermal, Visible Light,						
Image	or Picture-in-Picture ² or SpyLite ³						
LCD Display	High Resolution 3.6" Color LCD Touch Screen, 640 x 480 11 Display Color Palettes: Ironbow: Negative Grayscale: Positive						
	Grayscale; Amber; Hot Metal; Cool Metal; Rainbow Green-Red;						
Image Control	Rainbow Blue-Red; Rainbow Black-White; High Contrast Blue-Yellow; and High Contrast Violet-White						
	Image Adjustment: Auto Ranging / Manual Level and Span / Adjustable Display Brightness and Contrast Control						
	Measurement Analysis						
Measurement Range							
measurement mange	Solution Services of the ser		, ,				
Measurement Accuracy	Greater of ±2% of reading or ±2°C. Instrument is not calibrated below -10°C.						
Measurement Correction	Instrument is not calibrated below -10°C. Auto / Manual						
Measurement Mode		X 2 or X 4 8 - 14μm xxel CMOS Sensor, Dual LED Head Lights gnification allows for a 50° x 38° FOV ¹ fication allows for a 12.5° x 9.5° FOV ¹ fication allows for a 6.25° x 4.75° FOV ¹ fication allows for a 6.25° x 4.75° FOV ¹ Image Display witch between Thermal, Visible Light, Picture-in-Picture ² or SpyLite ³ on 3.6° Color LCD Touch Screen, 640 x 480 or Palettes: Ironbow; Negative Grayscale; Positive Per; Hot Metal; Cool Metal; Rainbow Green-Red; ue-Red; Rainbow Black-White; High Contrast Yellow; and High Contrast Violet-White Iment: Auto Ranging / Manual Level and Span / Ie Display Brightness and Contrast Control Measurement Analysis -4° to 662°F (-20° to 350°C) e Temperature Extension to 1202°F (650°C) eater of ±2% of reading or ±2°C. ment is not calibrated below -10°C. Auto / Manual reas, Lines, Isotherms, Delta T, Alarms (Multiple Audible and Visible) able Spots, including Hot and Cold Seeking to 5 Movable and Sizeable Areas lax, Min and Avg Temperatures) floveable Lines, 1 Vertical, 1 Horizontal; mage Temperature Profile Lines m 0.01 to 1.00 with Built-in Emissivity Table Auto with manual reflected Temperature Adjustment tic Correction according to user input Distance, Humidity, and Temperature w Temperature Audible and Visible Alarm; Isotherm Visible A arm User Selectable: °C, °F, and K emperature Unit, Brightness/Contrast, LCD htness and 8 Languages: English; German; Portuguese; Korean; Russian;					
# of Measurement Spots	Up to 5 Moveable Spots, including Hot and Cold Seeking						
# of Measurement Areas							
π OI MIGASUIGHICHI AIGAS	(Max, Min and Avg Temperatures)						
# of Measurement Lines	Up to 2 Moveable Lines, 1 Vertical, 1 Horizontal; Image Temperature Profile Lines						
Emissivity Correction	(Max, Min and Avg Temperatures) Up to 2 Moveable Lines, 1 Vertical, 1 Horizontal; Image Temperature Profile Lines Adjustable from 0.01 to 1.00 with Built-in Emissivity Table Auto with manual reflected						
Reflected Temperature	Auto with manual reflected						
Compensation Atmospheric Transmission	Automo			er innut			
Atmospheric transmission Correction	Automatic Correction according to user input Object Distance, Humidity, and Temperature						
Alarm	High and Low Temperature Audible and Visible Alarm;						
Temperature Scale	Isotherm Visible Alarm			ject to			
iemperature ocale	User Selectable: "C, "F, and K Date/Time Temperature Unit Brightness/Contrast LCD			gns s			
User Settings	Automatic Correction according to user input Object Distance, Humidity, and Temperature High and Low Temperature Audible and Visible Alarm; Isotherm Visible Alarm User Selectable: °C, °F, and K Date/Time, Temperature Unit, Brightness/Contrast, LCD Brightness and 8 Languages: English;			lish;	Specifications subject to		
Coor County	Spanish; German; Portuguese; Korean; Russian; Simplified Chinese; Traditional Chinese				pecifi		
	0.111				S		

* Export Licensing Fee on 60Hz models may be required for your country, subject to US Government	
approval. No Export License required on 9Hz models.	

^{**} 384×288 is not directly convertible to 640×480 imager display. Image is displayed as a 320×240 image. Full 384×288 resolution image, (1.09 mrad), downloads to computer.



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l Imagers Specifications							
Model Number	a150	z150	a170	z170			
Frame Rate	9Hz	60Hz*	9Hz	60Hz*			
		Image	Storage				
Removable Storage	8GB Micro SD, max 32GB						
Storage Mode	Manual Single Image Save or Programmable Auto Save to Micro SD Card, Single Thermal Image and Visible Image Save (with link option), Thermal, Visible, Picture-in-Picture ² and SpyLite ³ Video Save						
File Format (Thermal)		264 (Both with					
File Format / (Visible Light)	0. 20. 7	JPEG. N					
Voice Annotation	IV	laximum 60 sec		ie			
Text Annotation	Yes						
		La	iser				
Laser Pointer		Class 2, < 1mW	/ / 635nm, Red				
	Record						
Report Analysis Software	Yes						
Video Output	User Selectable PAL and NTSC						
Freeze Frame/Save Image	Freeze Frame and Save Image, Thermal and/or Visible to SD Card						
	Interface						
Micro SD Card Slot	Yes						
Mini-USB	Yes						
Netware	Yes, with IP Address for real time image and data transfer						
Power	DC 12V						
Video	Yes						
Bluetooth		Bluetooth (Ear	phone/RS232)				
	Environment						
Ambient Operating Temp	5° to 122°F (-15° to 50°C)						
Storage Temperature	-13° to 140°F (-25° to 60°C)						
Humidity	≤ 90% non-condensing						
IP Rating	IP54						
Drop Resistance	2 meters						
	Power						
Power / Operating Time	1 Rechargeable Lithium Ion Battery, 2 Batteries provided for approx 3 hours continuous operation per battery						
Power Save Mode	Selectable Time Interval Auto Sleep to save battery, Auto Shut Off						
Charging System	Auxillary Charging Kit with: 12V DC Car Charger, AC/DC Power Supply/Charger with International Plugs						
		Gene	ral Info				
Housing		esistant Molded P ide). Tripod Mour					
Dimensions	Width: 4.13 in. (105mm) x Length: 9.64 in. (245mm) x Height: 9 in. (230mm)						
Weight (w/o battery)		2.16 lbs (0.98 Kg)				
Software Compatibility	Microsoft Windows 2000, Windows XP, Windows Vista, and Windows 7						
Included Accessories	Spy-Care, Carrying Case; Hand Strap; Lens Cap; 2 Rechargeable Lithium Ion Batteries; External AC Battery Charger; Video Out Cable; Ethernet Cable; Heat Spy Report & Analysis Software; Micro SD Card and Reader; User Manual.						
Optional Accessories	NIST Traceable Certificate of Conformance; Extended Warranty; Auxillary Charging Kit with: 12V DC Car Charger, AC/DC Power Supply/Charger with International Plugs						
	Safety Certificates						
Shock Test/Vibration Test	25G, IEC68-2-29 / 2G, IEC68-2-6						
Immunity Tests/Emission Limits	Yes / Yes						

Heat Spy Thermal Imagers are available from:

² Picture-in-Picture - all temperatures shown thermally over visible image ³ SpyLite - only temperatures over or under preset point shown thermally