

z50 INSPECTOR

Designed for the pro, save and export thermal and digital images with easy report writing software.

z30 DETECTOR

Designed for on the spot routine maintenance inspections.

First upgradeable camera after purchase. Maximize scalability by upgrading your camera with up to 15 configurations - at any time!

First *user* **upgradeable camera.** Maximize value by easily upgrading your z30 Detector to a z50 Inspector - *in the field!*

First extended warranty plan to *include* annual recalibration, inspection and firmware upgrades. Maximize performance and *increase the life of your Heat Spy!* (Excludes Battery and SD Card)

FEATURES

Upgrade both models with a High Temperature option, Wide Angle Lens and / or Telephoto Lens - at any time!

"z" speed at 30 Hertz captures clear, sharp images! (USA Customers only)

Camera acclimates quickly. Sudden ambient temperature changes won't slow you down!

Every Pixel is individually calibrated!

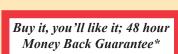
"Double Vision" provides simultaneous capture of both a Thermal and Digital picture, and can include up to a 45 second voice recording. (z50 Series only)

Hands-free flashlight (optional) screws into camera to brighten dark areas for clear digital pictures. Operates on it's own internal battery, enabling longer camera battery life.

Lease the camera at 0% interest (Call Customer Service for requirements, USA Customers only)

We are so confident that you will love this new camera that we are offering a 48 hour money back guarantee! (USA Customers only)

Call us now! You could win a Free Heat Spy, upgrade or accessory!



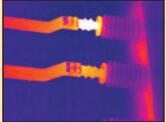
* USA Customers only







Heat Spy



Find problems quickly, easily, and safely with the Wahl Heat Spy.



PW1280z

APPLICATIONS for many Industries

Aerospace Automotive Asphalt & Roofing Breweries Beverage Processing Canning Chemical **Coal & Mineral Mining Condition Monitoring** Confectionery Cosmetics **Dairy Processing** Electrical **Energy Audits Facilities Management Fire Fighting Food Processing Food Service** Glass Government **Home Inspection HVAC & Irrigation Meat Processing** Mechanical **Military Natural Gas** Oil & Petroleum Petrochemical **Pharmaceutical** Pipe, Valve & Fitting **Plumbing** Police Search/Rescue **Poultry Processing Power Generation** Pulp & Paper **Research & Development Plastics** Rubber **Sanitary Processing Semiconductor** Steel & Iron **Telecommunications Test & Measurement** Verification Water & Wastewater Weatherization

and more!





Specifications	z30 Series Detector	z50 Series Inspector
UPGRADE Model	Upgrade to a z50 Inspector - in the Field!	Full Feature Series
Measurement Range	-4° to 356°F (-	-20° to 180°C)
UPGRADE to High Temperature	212° to 1112°F (100° to 600°C) (User Upgradeable in the Field)	
Temperature Accuracy	Greater of ± 2% of reading or ± 2°C	
Temperature Scale		e °C, °F, and K
Temperature Cursors	1 Hot Seeking, 1 Cold	
Field of View	17.5°	
Resolution/Pixel Size	160)	(120
Spectral Range	8-14μm	
Thermal Sensitivity	0.1°C @	@ 30°C
LCD Display	High Resolution 3.5"	Color LCD, 640 x 480
Digital Zoom	2 X Z	Zoom
Frame Rate	30 Hz (USA only) (9Hz Models a30 and a50, International)	
Display Color Palettes	4 Color Palettes: Ironbow; Negative Grayscale; Rainbow Blue-Red; High Contrast Blue-Yellow	11 Color Palettes: Ironbow; Negative Grayscale; Positive Grayscale; Amber; Hot Metal; Cool Metal; Rainbow Green-Red; Rainbow Blue-Red; Rainbow Black-White; High Contrast Blue-Yellow; and High Contrast Violet-White
Image Adjustment	Auto Ranging / Manual Level and Span	
Languages	11 Languages: English; Spanish; French; German; Italian; Portuguese; Korean; Japanese; Russian; Simplified Chinese; and Traditional Chinese	
Laser Pointer	Class 2 < 1mW / 635nm, Red	
Self Calibration	Auto Calibration with Adjustable Ti	me Interval or Push Button Manual
Measurement Mode	Spots, Delta T	Spots, Areas, Lines, Isotherms, Delta T
Number of Measurement Areas	N/A	3
Emissivity Range	Adjustable from 0.01 to 1.00	Adjustable from 0.01 to 1.00
T Reflect	with Built-in Emissivity Table Manual Adjustment	
T Correct	N/A Manual Adjustment	
Digital Camera	N/A	1.3 Megapixel
Thermal/Digital Image	N/A	Toggle between Thermal and Digital
Alarm	High Temperature Audible and Visible Alarm	High Temperature Audible and Visible Alarm
	Usotherm Visible Alarm Wide Angle (35° x 26° FOV), and/or Telephoto (8.75° x 6.5° FOV) (Factory Upgradeable options)	
UPGRADE Optics Report Analysis Software	, , , , , , , , , , , , , , , , , , , ,	Yes
Image Storage	N/A N/A	111
3 3	Freeze Frame only	2GB SD / Time Stamped Freeze Frame and Save Image,
Freeze Frame/Save Image		Thermal and/or Digital to SD Card
Storage Mode	N/A	Manual Single Image Save or Programmable Auto Save to SD Card
Voice Annotation	N/A	Maximum 45s per image
File Format (Thermal)	N/A	JPEG plus Temperature in 14 bit data
File Format (Visual)	N/A	JPEG
Video Output	User Selectable PAL and NTSC	
Dimensions / Weight (w/o battery)	Width: 4.5 in. (115mm) x Length: 5.9 in. (150m	m) x Height: 9 in. (230mm) / 1.65 lbs (0.75 Kg)
Power / Operating Time	1 Rechargeable Lithium ion Battery / 2 B	atteries provide 6.0 plus hours operation
Charging System	External AC Mains Battery Charger included; In Camera Charging with optional AC Battery Charger	
Ambient Operating Temperature	5° to 122°F (-15° to 50°C)	
Storage Temperature	-4° to 140°F (-20° to 60°C)	
Humidity	≤ 90% non-condensing	
Included Accessories	Carrying Case; Wrist Strap; Lens Cap; 2 Rechargeable Lithium Ion Batteries; Video Out Cable; AC Mains Battery Charger; Report & Analysis Software; User Manual. 50 Series only: SD Card and Reader.	
Options	NIST Traceable Certificate of Conformance; Extended Warranty; Damage Protection Plan; Hands Free Flashlight; Auxillary Charging Pkg includes: Car Charger, AC mains charger, and International Plugs	

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Specifications subject to change without notice



Full Specifications			
Model Number	z30 Series Detector	z50 Series Inspector	
UPGRADE Model	Upgradeable to a z50 Inspector - in the Field!	Full Feature Series	
	Temperature		
Measurement Range	-4° to 356°F (-20° to 180°C)		
UPGRADE to High Temperature	212° to 1112°F (100° to 600°C) (User Upgradeable in the Field)		
Temperature Accuracy	Greater of ±2% of reading or ±2°C		
Temperature Scale	User Selectable °C, °F, and K		
Temperature Cursors	1 Hot Seeking, 1 Cold Seeking, 2 Adjustable		
	Camera Info		
Field of View	17.5° x 13°		
Focus Range	0.1 m to ∞		
Focus Type	Manual		
Spatial Resolution	1.9 mrad		
UPGRADE Wide Angle Lens	.5 magnification allows for a 35° x 26° FOV (Factory Upgrade)		
UPGRADE Telephoto Lens	2 X magnification allows for a 8.75° x 6.5° FOV (Factory Upgrade)		
Sensor Info			
Detector	Uncooled Focal Plane Array (FPA)		
Resolution/Pixel Size	160 X 120		
Spectral Range	8-14µm		
Thermal Sensitivity	0.1°C @ 30°C		
Display Info			
LCD Display	High Resolution 3.5" Color LCD, 640 x 480		
Digital Zoom	2 X Zoom		
Frame Rate	30 Hz (USA only) (9Hz Models a30 and a50, International)		
Display Color Palettes	4 Color Palettes: Ironbow; Negative Grayscale; Rainbow Blue-Red; High Contrast Blue-Yellow	11 Color Palettes: Ironbow; Negative Grayscale; Positive Grayscale; Amber; Hot Metal; Cool Metal; Rainbow Green-Red; Rainbow Blue-Red; Rainbow Black-White; High Contrast Blue-Yellow; and High Contrast Violet-White	
lmage Adjustment	Auto Ranging / Manual Level and Span / Adjustable Display Brightness Control		
Languages	11 Languages: English; Spanish; French; German; Italian; Portuguese; Korean; Japanese; Russian; Simplified Chinese; and Traditional Chinese		
	Fea	tures	
Laser Pointer	Class 2, <	1mW / 635nm, Red	
Self Calibration	Auto Calibration with Adjustable Time Interval or Push Button Manual		
Measurement Mode	Spots, Delta T	Spots, Areas, Lines, Isotherms, Delta T	
Number of Measurement Spots	1 Hot, 1 Cold, plus 2 Adjustable		
Number of Measurement Areas	N/A	3	
Emissivity Range	Adjustable from 0.01 to 1.00	Adjustable from 0.01 to 1.00 with Built-in Emissivity Table	
T Reflect	Manual Adjustment		
T Correct	N/A	Manual Adjustment	

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Full Specifications				
Model Number	z30 Series Detector	z50 Series Inspector		
	Features (continued)			
Digital Camera	N/A	1.3 Megapixel		
Thermal/Digital Image	N/A	Toggle between Thermal and Digital		
Alarm	High Temperature Audible and Visible Alarm	High Temperature Audible and Visible Alarm; Isotherm Visible Alarm		
Record				
Report Analysis Software	N/A	Yes		
Image Storage	N/A	2GB SD / Time Stamped		
Freeze Frame/Save Image	Freeze Frame only	Freeze Frame and Save Image, Thermal and/or Digital to SD Card		
Storage Mode	N/A	Manual Single Image Save or Programmable Auto Save to SD Card		
Voice Annotation	N/A	Maximum 45s per image		
File Format (Thermal)	N/A	JPEG plus Temperature in 14 bit data		
File Format (Visual)	N/A	JPEG		
Video Output	User Selectable PAL and NTSC			
	General Info			
Housing	Impact Resistant Molded Plastic and Wrist Strap			
Mounting	Hand Held with Tripod mounting / 1/4"-20			
Dimensions	Width: 4.5 in. (115mm) x Length: 5.9 in. (150mm) x Height: 9 in. (230mm)			
Weight (w/o battery)	1.65 lbs (0.75 Kg)			
Power	1 Rechargeable Lithium Ion Battery			
Operating Time	2 Batteries provide 6.0 plus hours operation			
Charging System	External AC Mains Battery Charger included; In Camera Charging with optional AC Battery Charger			
Environment				
Ambient Operating Temperature	5° to 122°F (-15° to 50°C)			
Storage Temperature	-4° to 140°F (-20° to 60°C)			
Humidity	≤ 90% non-condensing			
	Safety C	ertificates		
Shock Test	25G, IEC68-2-29			
Vibration Test	2G, IEC68-2-6			
IP Rating	IP 54			
Immunity Tests	Yes			
Emission Limits	Yes			
Included Accessories	Carrying Case; Wrist Strap; Lens Cap; 2 Rechargeable Lithium Ion Batteries; Video Out Cable; AC Mains Battery Charger; Report & Analysis Software; User Manual. 50 Series only: SD Card and Reader.			
Optional Accessories	NIST Traceable Certificate of Conformance; Extended Warranty; Damage Protection Plan; Hands Free Flashlight; Auxillary Charging Pkg includes: Car Charger, AC mains charger, and International Plugs			

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