PHEAT SPY.

NEW! Wahl 150 & 170 Imagers



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

- 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

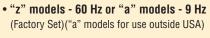


The FIRST No-Fault warranty plan in the industry is INCLUDED with your purchase!

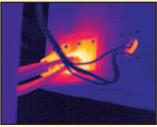
We will repair or replace your camera for two years, for any reason - even if it's your fault - no questions asked! Also includes:

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.)

Specifications subject to change without notice



- Large 3.6" LCD Touch Screen Display for easy use of menu functions
- 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





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.

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

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| 150 • 170 Series Thermal Ir | | | | l Ima | | |
|--|---|----------------|---------------------------------|---------------|-----------------------|--------|
| Model Number | a150 | z150 | a170 | z170 | | |
| Frame Rate | 9Hz | 60Hz* | 9Hz | 60Hz* | | |
| | | Image P | erformance | | | |
| Detector Type | Uncooled Microbolometer Focal Plane Array (FPA) | | rray (FPA) | | | |
| Detector Resolution | 160 x | x 120 | 384 | 384 x 288 | | |
| Number of Pixels | 19, | 200 | 110,592 | | | |
| Field of View (FOV) | | 25° | x 19° | | | File |
| Spatial Resolution (IFOV) | 2.73 | mrad | 1.37 n | nrad** | | |
| Thermal Sensitivity | ≤ 0.05 | @ 30°C | ≤ 0.04 | @ 30°C | | |
| Focus Range | | 0.5 m to ∞ | and beyond | | | |
| Focus Type | | Ма | nual | | | |
| IR Digital Zoom | | X 2 0 | or X 4 | | | Re |
| Spectral Range | | 8 - 1 | 4µm | | | Free |
| Visible Light Camera | 3.2 Megap | | sor, Dual LED I | lead Lights | | |
| Wide Angle Lens Option | • • | | ws for a 50° x 3 | | | |
| | | 5 | | | | |
| Telephoto Lens Option | Telephoto Lens Option 2X magnification allows for a 12.5° x 9.5° FOV 1 4X magnification allows for a 6.25° x 4.75° FOV 1 | | | | | |
| | in thagin | | e Display | | | |
| Thermal/Visible Light | Fast sv | 5 | . , | e Liaht. | | |
| Image | Fast switch between Thermal, Visible Light, or Picture-in-Picture ² or SpyLite ³ | | | | | |
| LCD Display | High Resolution 3.6" Color LCD Touch Screen, 640 x 480 | | | An | | |
| | 11 Display Color Palettes: Ironbow; Negative Grayscale; Positive Grayscale; Amber; Hot Metal; Cool Metal; Rainbow Green-Red; Rainbow Blue-Red; Rainbow Black-White; High Contrast | | | | | |
| Image Control | Blue-Yellow; and High Contrast Violet-White Image Adjustment: Auto Ranging / Manual Level and Span / | | | | | |
| | Adjustable Display Brightness and Contrast Control | | | | Р | |
| | Measurement Analysis -4° to 662°F (-20° to 350°C) | | | | | |
| Measurement Range | | le Temperature | Extension to 1 | 202°F (650°C) | | |
| Measurement Accuracy | Greater of ±2% of reading or ±2°C. Instrument is not calibrated below -10°C. | | | | | |
| Measurement Correction | Auto / Manual | | | | | |
| Measurement Mode | Spots, Areas, Lines, Isotherms, Delta T, Alarms (Multiple Audible and Visible) | | | | | |
| # of Measurement Spots | Up to 5 Move | | luding Hot and | | | |
| # of Measurement Areas | Up to 5 Movable and Sizeable Areas (Max, Min and Avg Temperatures) | | - | | | |
| # of Measurement Lines | Up to 2 Moveable Lines, 1 Vertical, 1 Horizontal; Image Temperature Profile Lines | | | | | |
| Emissivity Correction | Adjustable from 0.01 to 1.00 with Built-in Emissivity Table | | | | | |
| Reflected Temperature Compensation | Auto with manual reflected Temperature Adjustment | | - | | | |
| Atmospheric Transmission Correction | Automatic Correction according to user input | | | | | |
| Alarm | High and Low Temperature Audible and Visible Alarm; Isotherm Visible Alarm | | it to | lmmu 9 | | |
| Temperature Scale | User Selectable: °C, °F, and K | | | ubjec | notic | |
| User Settings | Date/Time, Temperature Unit, Brightness/Contrast, LCD Brightness and 8 Languages: English; | | | ications su | change without notice | |
| con comige | | | guese; Korean Traditional Ch | | Specifi | change |

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

¹ Factory Upgrade



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

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

| 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 | | | with link option). |
| File Format (Thermal) | JPEG / H. | 264 (Both with | | formation) |
| File Format / (Visible Light) | | JPEG, N | | |
| Voice Annotation | IV | laximum 60 sec | | le |
| Text Annotation | | Ye | es Aser | |
| Laser Pointer | | Class 2, < 1mW | | |
| Luser r uniter | | | cord | |
| 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 | | | sible to SD Card |
| | Interface | | | |
| Micro SD Card Slot | Yes | | | |
| Mini-USB | Yes | | | |
| Netware | Yes, with IP A | ddress for real | | d data transfer |
| Power | | DC | | |
| Video | Yes | | | |
| Bluetooth | | | | |
| Ambient Or anti- T | Environment | | | |
| Ambient Operating Temp | 5° to 122°F (-15° to 50°C) | | | |
| Storage Temperature | -13° to 140°F (-25° to 60°C) | | | |
| Humidity IP Rating | ≤ 90% non-condensing | | | |
| Drop Resistance | IP54 2 meters | | | |
| Drop noorotalibe | 2 meters Power | | | |
| Power / Operating Time | 1 Rechargeable Lithium Ion Battery, 2 Batteries provided for approx 3 hours continuous operation per battery | | | battery |
| Power Save Mode | | le Time Interval A Auto S | hut Off | |
| Charging System | Power Supply/Gharger with International Plugs | | | |
| | General Info | | | |
| Housing | Impact Resistant Molded Plastic with Hand Strap (fits either side). Tripod Mounting with 1/4"-20 Thread | | | Thread |
| Dimensions | | th: 4.13 in. (105m (245mm) x Heigh | it: 9 in. (230mm) | |
| Weight (w/o battery) | | | | |
| Software Compatibility | allu Willuuws 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. NIST Traceable Certificate of Conformance; Extended Warranty; | | | |
| | INIST Traceable | e Certificate of Co | ntormance; Exter | ided Warranty; |

 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

 Shock Test/Vibration Test
 256, IEC68-2-29 / 26, IEC68-2-6

unity Tests/Emission Limits Yes / Yes

Heat Spy Thermal Imagers are available from:

NEW! Wahl CHIEF INSPECTOR

MTS PY

Highest level of Resolution Designed for the Professional

BEST-IN-CLASS!

The a70 and z70 models include a 384 x 288 array with 110,592 pixels — 44% more pixels than 320 x 240 thermal imagers with 76,800 pixels.

Fully calibrated, high resolution camera captures clear, sharp images!

Easily load images to an iPad[®] using an SD adapter. The thermal images can be imported and stored in the regular photo application found on the iPad[®], or used with a picture application like iPhoto[®]. The images can then be shared with other applications on the iPad[®], offering the flexibility of easy to prepare reports.

Two temperature modes allow you to switch between the ranges of -4° to 356°F (-20° to 180°C) or 212° to 1112°F (100° to 600°C) to select the temperature range required for your application.

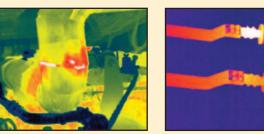
Temperature readings are always accurate. Quick stabilization circuitry enables the camera to acclimate to sudden ambient temperature changes in just a few minutes, compared to 30 - 45 minutes with other cameras.

Simultaneously captures both a thermal and visible light picture, or either individually, with one pull of the trigger. View or download images to included Wahl Report Writer software, or an iPad[®], with selectable voice recording, up to 45 seconds per picture.

Thermal line analysis allows the user to select a target of interest as a temperature reference point, and show a relative comparison as a percentage between the target temperature and the temperatures in the surrounding area. This enables the user to quickly find potential problem areas in need of further attention.

The **z70** frame rate is 30Hz. The **a70** features a 9Hz frame rate for export without license restrictions.





Heat Spy

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



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! Also includes:

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. iPad® and iPhoto® are registered trademarks of Apple.

Digital version of catalog may differ from printed version.

www.wahlheatspy.com

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Specifications subject to change without notice

| a70 • z70 CHIEF INS | | | | |
|------------------------|--|---|--|--|
| Model Number | a70 | z70 | | |
| Frame Rate | 9Hz | 30Hz* | | |
| | Sensor I | nfo | | |
| Detector | Uncooled Microbolometer Focal Plane Array (EPA) | | | |
| Detector Resolution | 384 > | 288 | | |
| Spectral Range | 8 - 1 | 4µm | | |
| Thermal Sensitivity | ≤ 0.06 | @ 30°C | | |
| | Image Perfo | rmance | | |
| LCD Display | High Resolution 3.5" Cold | or LCD Screen, 640 x 480 | | |
| Visible Light Camera | 1.3 Megapixel | CMOS Sensor | | |
| | Lens Para | meter | | |
| Field of View | 25° > | (19° | | |
| Focus Range | 0.1 m to ∞ : | and beyond | | |
| Focus Type | Mar | nual | | |
| Spatial Resolution | 1.37 mrad** | | | |
| | Measurement Analysis | | | |
| Measurement Range | -4° to 356°F (-20° to 180°C) or 212° to 1112°F (100° to 600°C) Low/High Temperature User Switchable: | | | |
| Measurement Accuracy | Greater of ±2% of reading or ±2°C Instrument is not calibrated below -10°C. | | | |
| Image Control | 11 Display Color Palettes: Ironbow; Negative Grayscale; Positive Grayscale; Amber; Hot Metal; Cool Metal; Rainbow Green-Red; Rainbow Blue-Red: Rainbow Black-White: High Contrast | | | |
| | Span / Adjustable Disp | | | |
| Measurement Correction | Auto Correction of Microbolometer with Adjustable Time Interval or Push Button Manual Spots, Areas, Lines, Isotherms, Delta T, Alarms | | | |
| Measurement Mode | Spots, Areas, Lines, Iso (Multiple Audit | | | |
| # of Measurement Spots | 1 Hot, 1 Cold, plus 2 Adjustable | | | |
| # of Measurement Areas | Up to 3 Movable and Sizeable Areas (Max, Min and Avg Temperatures) | | | |
| # of Measurement Lines | Up to 2 Moveable Lines, 1 Vertical, 1 Horizontal; Image Temperature Profile Lines | | | |
| T Reflect | Manual Ad | djustment | | |
| T Correct | Manual Ad | djustment | | |
| IR Digital Zoom | X 2 o | r X 4 | | |
| Thermal/Visible Image | Toggle between Ther | mal and Visible Light | | |
| Alarm | High and Low Temperature Isotherm Vi | Audible and Visible Alarm; sible Alarm | | |
| Temperature Scale | User Selectabl | e:°C, °F, and K | | |
| User Settings | Date/Time, Temperature Unit, Brightness/Contrast, LCD Brightness, and 11 Languages: English; Spanish; French; German; Italian; Portuguese; Korean; Japanese; Russian; Simplified Chinese; and Traditional Chinese | | | |
| Emissivity Range | Adjustable from 0.01 to 1.00 with Built-in Emissivity Table | | | |

*Export Licensing fee on 30Hz models may be required for your country, subject to US Government approval. No Export License required on 9Hz models. ** 384 x 288 is not directly convertible to 640 x 480 imager display. Image is displayed as a 320 x 240 image. Full 384 x 288 resolution image, (1.09 mrad), downloads to computer.



PW1282 May 2013 Rev A

ECTOR Specifications

| • | | | |
|----------------------------------|--|----------------------------------|--|
| Model Number | a70 | z70 | |
| | Image Storage | | |
| Removable Storage | 2GB SD / Tir | ne Stamped | |
| Storage Mode | Manual Single Image Save or Programmable Auto Save to SD Card | | |
| File Format (Thermal) | JPEG plus Tempera | ature in 14 bit data | |
| File Format/Size (Visible) | JPEG / 100K (| Typical Value) | |
| Voice Annotation | Maximum 45 sec | conds per image | |
| Text Annotation | Ν | A | |
| | Lasei | r | |
| Laser Pointer | Class 2, < 1mW | / / 635nm, Red | |
| | Recor | d | |
| Report Analysis Software | Ye | 9S | |
| Video Output | User Selectable | PAL and NTSC | |
| Freeze Frame/Save Image | Freeze Frame and Save Image, T | hermal and/or Visible to SD Card | |
| | Environn | nent | |
| 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 | |
| IP Rating | IP | 54 | |
| | Power | | |
| Power | 1 Rechargeable Lithium Ion Battery | | |
| Operating Time | 2 Batteries provide approx 4 hours operation | | |
| Power Save Mode | Selectable Time Interval Auto Sleep to save battery, Auto Shut Off | | |
| Charging System | External AC Battery Charger included; In Camera Charging with optional AC/DC Battery Charger; 12V DC Car Charger | | |
| | General | Info | |
| Housing | Impact Resistant Molded | l Plastic and Wrist Strap | |
| Mounting | Hand Held with Tripod mounting / 1/4"-20 Thread | | |
| Dimensions | Width: 4.5 in. (115mm) x x Height: 9 i | | |
| Weight (w/o battery) | 1.65 lbs (| (0.75 Kg) | |
| Software Compatibility | Microsoft Windows 2000, Windows XP, Vista, and Windows 7 | | |
| Included Accessories | Spy-Care, Carrying Case; Wrist Strap; Lens Cap; 2 Rechargeable Lithium Ion Batteries; External AC Battery Charger; Video Out Cable; Heat Spy Report & Analysis Software; SD Card/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 and International Plugs | | |
| | Safety Certificates | | |
| Shock Test | 25G, IEC68-2-29 | | |
| Vibration Test | 2G, IEC68-2-6 | | |
| Immunity Tests | Yes | | |
| Emission Limits | Yes | | |
| | | | |

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INSTRUMENTATION GROUP www.wahlheatspy.com

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EATS P

z50 INSPECTOR

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



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!

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)

*Export Licensing fee on 30Hz models may be required for your country, subject to US Government approval. No Export License required on 9Hz models.



differ from printed version.





Heat Spy

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

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13133

Buy it, you'll like it; 48 hour Money Back Guarantee*

* USA Customers only



| | | -00 Opering Detector | -50 Opring Incorporter | |
|---|--|--|--|--|
| APPLICATIONS | Specifications | z30 Series Detector | z50 Series Inspector | |
| for many Industries | UPGRADE Model | Upgrade to z50 Inspector - in the Field! | Full Feature Series | |
| | Measurement Range | -4° to 356°F (-20° to 180°C) | | |
| Aerospace | UPGRADE to High Temperature | 212° to 1112°F (100° to 600°C) (User Upgradeable in the Field) | | |
| Automotive | Temperature Accuracy | | | |
| Asphalt & Roofing | Temperature Scale | User Selectable °C, °F, and K 1 Hot Seeking, 1 Cold Seeking, 2 Adjustable | | |
| Breweries | Number of Measurement Spots Field of View | - | i° x 13° | |
| Beverage Processing | Detector Resolution | | X 120 | |
| Canning | Spectral Range | | 14µm | |
| Chemical | Thermal Sensitivity | | Γ4μπ C @ 30°C | |
| Coal & Mineral Mining | LCD Display | | lor LCD Screen, 640 x 480 | |
| Condition Monitoring | IR Digital Zoom | , , , , , , , , , , , , , , , , , , , | X 2 | |
| Confectionery Cosmetics | Frame Rate | | be subject to export licensing fee) | |
| Dairy Processing | | 4 Color Palettes: Ironbow; Negative Grayscale; | 11 Color Palettes: Ironbow; Negative Grayscale; | |
| Electrical | Disalar Oslar Dalattas | Rainbow Blue-Red; High Contrast Blue-Yellow | Positive Grayscale; Amber; Hot Metal; Cool Metal; | |
| Energy Audits | Display Color Palettes | (Additional Palettes with Upgrade) | Rainbow Green-Red; Rainbow Blue-Red; Rainbow Black-White; High Contrast Blue-Yellow; and High | |
| Facilities Management | | | Contrast Violet-White | |
| Fire Fighting | Image Adjustment | | n / Adjustable Display Brightness Control | |
| Food Processing | Languages | Korean; Japanese; Russian; Simpl | French; German; Italian; Portuguese; ified Chinese; and Traditional Chinese | |
| Food Service | Laser Pointer | | W / 635nm, Red | |
| Glass | Auto Correction | Auto Correction of Microbolometer with Adjustable Time Interval or Push Button Manual | | |
| Government Home Inspection | Measurement Mode | Spots, Delta T, High Temp Alarm (Audible/Visible) Spots, Areas, Lines, Isotherms, Delta | | |
| HVAC & Irrigation | Number of Measurement Areas | (Additional capabilities with Upgrade) (Available with Upgrade) | (Multiple Audible/Visible) Up to 3 Movable & Sizeable Areas (Max, Min & Avg) | |
| Meat Processing | | Adjustable from 0.01 to 1.00 | Adjustable from 0.01 to 1.00 | |
| Mechanical | Emissivity Correction | (Built-in Emissivity Table with Upgrade) | with Built-in Emissivity Table | |
| Military | T Reflect | | | |
| Natural Gas | T Correct | (Available with Upgrade) | Manual Adjustment | |
| Oil & Petroleum | Visible Light Camera | (Available with Upgrade) | 1.3 Megapixel CMOS Sensor | |
| Petrochemical | Thermal/Visible Light Image | (Available with Upgrade) High Temperature Audible and Visible Alarm | Toggle between Thermal and Visible Light High Temperature Audible and Visible Alarm | |
| Pharmaceutical Pipe, Valve & Fitting | Alarm | (Additional functions with Upgrade) | Isotherm Visible Alarm | |
| Plumbing | UPGRADE Optics | Wide Angle (35° x 26° FOV), and/or Telephoto | (8.75° x 6.5° FOV) (Factory Upgradeable options) | |
| Police Search/Rescue | Report Analysis Software | (Available with Upgrade) | Yes | |
| Poultry Processing | Image Storage | (Available with Upgrade) | 2GB SD / Time Stamped | |
| Power Generation | Freeze Frame/Save Image | Freeze Frame only (Additional capabilities with Upgrade) | Freeze Frame and Save Image, Thermal and/or Visible to SD Card | |
| Pulp & Paper Research & Development | Storage Mode | (Available with Upgrade) | Manual Single Image Save or Programmable Auto Save to SD Card | |
| Plastics | Voice Annotation | (Available with Upgrade) | Maximum 45s per image | |
| Rubber | File Format (Thermal) | (Available with Upgrade) | JPEG plus Temperature in 14 bit data | |
| Sanitary Processing | File Format / Size (Visible) | (Available with Upgrade) | JPEG / 60K (Typical value) | |
| Semiconductor | Video Output | | | |
| Steel & Iron | Dimensions/Weight w/o battery | | | |
| Telecommunications | Power / Operating Time | | | |
| Test & Measurement | Charging System | | | |
| Verification Water & Wastewater | Ambient Operating Temperature | | | |
| Water & wastewater Weatherization | Storage Temperature | | | |
| and more! | Humidity/IP Rating | | | |
| TWO YEAR | Included Accessories | d Carrying Case; Wrist Strap; Lens Cap; 2 Rechargeable Lithium Ion Batteries; External AC Battery Charger; | | |
| 2 WARRANTY | Options | NIST Traceable Certificate of Conformance: Extended Warranty: Auvillary Charging Kit with: | | |

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Specifications subject to change without notice

PW1280z October 2011 Rev C

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PIEAT SPY.

a50 INSPECTOR

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

a30 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 a30 Detector to a a50 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!

"a" speed at 9 Hertz captures clear, sharp images!

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

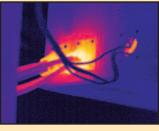
Every Pixel is individually calibrated!

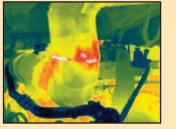
"Double Vision" provides simultaneous capture of both a Thermal and Digital picture, and can include up to a 45 second voice recording. (z50 Series only)

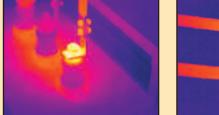
Hands-free flashlight (optional) screws into camera to brighten dark areas for clear digital pictures. Operates on it's own internal battery, enabling longer camera battery life.



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Heat Spy

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

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 Specifications subje

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Specifications subject to change without notice

| | Onesitiestions | o20 Series Detector | aEQ Carias Inspector | |
|---|--|--|--|--|
| APPLICATIONS | Specifications | a30 Series Detector | a50 Series Inspector | |
| for many Industries | UPGRADE Model | Upgrade to a50 Inspector - in the Field! | Full Feature Series | |
| | Measurement Range | | | |
| Aerospace | UPGRADE to High Temperature | | | |
| Automotive | Temperature Accuracy | Ÿ | | |
| Asphalt & Roofing | Temperature Scale | | ble °C, °F, and K | |
| Breweries | Number of Measurement Spots Field of View | | d Seeking, 2 Adjustable ° x 13° | |
| Beverage Processing | | | | |
| Canning | Detector Resolution | | X 120 | |
| Chemical | Spectral Range | | 14μm | |
| Coal & Mineral Mining | Thermal Sensitivity | | @ 30°C | |
| Condition Monitoring | LCD Display | ° | lor LCD Screen, 640 x 480 | |
| Confectionery | IR Digital Zoom | | X 2 | |
| Cosmetics | Frame Rate | | (no export licensing fee) | |
| Dairy Processing Electrical | Display Color Palettes | 4 Color Palettes: Ironbow; Negative Grayscale; Rainbow Blue-Red; High Contrast Blue-Yellow (Additional Palettes with Upgrade) | 11 Color Palettes: Ironbow; Negative Grayscale; Positive Grayscale; Amber; Hot Metal; Cool Metal; Rainbow Green-Red: Rainbow Blue-Red; Rainbow | |
| Energy Audits | Display color raiolico | (| Black-White; High Contrast Blue-Yellow; and High | |
| Facilities Management | | | Contrast Violet-White | |
| Fire Fighting | Image Adjustment | Auto Ranging / Manual Level and Span / Adjustable Display Brightness Control 11 Languages: English; Spanish; French; German; Italian; Portuguese; | | |
| Food Processing | Languages | | ified Chinese; and Traditional Chinese | |
| Food Service | Laser Pointer | Class 2 < 1m ¹ | W / 635nm, Red | |
| Glass | Auto Correction | Auto Correction of Microbolometer with Adjustable Time Interval or Push Button Manual | | |
| Government Home Inspection | Measurement Mode | Spots, Delta T, High Temp Alarm (Audible/Visible) (Additional functions with Upgrade) | Spots, Areas, Lines, Isotherms, Delta T, Alarms (Multiple Audible/Visible) | |
| HVAC & Irrigation | Number of Measurement Areas | (Available with Upgrade) | Up to 3 Movable & Sizeable Areas (Max, Min & Avg) | |
| Meat Processing | Emissivity Correction | Adjustable from 0.01 to 1.00 | Adjustable from 0.01 to 1.00 | |
| Mechanical | T Reflect | (Built-III EIIIISSIVIty Table with Opgrade) with Built-III EIIIISSIVIty Table | | |
| Military | T fielect | | | |
| Natural Gas Oil & Petroleum | Visible Light Camera | (Available with Upgrade) | 1.3 Megapixel CMOS Sensor | |
| Petrochemical | Thermal/Visible Light Image | (Available with Upgrade) | Toggle between Thermal and Visible Light | |
| Pharmaceutical | | High Temperature Audible and Visible Alarm | High Temperature Audible and Visible Alarm | |
| Pipe, Valve & Fitting | Alarm | (Additional functions with Upgrade) | Isotherm Visible Alarm | |
| Plumbing | UPGRADE Optics | Wide Angle (35° x 26° FOV), and/or Telephoto | (8.75° x 6.5° FOV) (Factory Upgradeable options) | |
| Police Search/Rescue | Report Analysis Software | (Available with Upgrade) | Yes | |
| Poultry Processing | Image Storage | (Available with Upgrade) | 2GB SD / Time Stamped | |
| Power Generation Pulp & Paper | Freeze Frame/Save Image | Freeze Frame only (Additional functions with Upgrade) | Freeze Frame and Save Image, Thermal and/or Visible to SD Card | |
| Research & Development | Storage Mode | (Available with Upgrade) | Manual Single Image Save or Programmable Auto Save to SD Card | |
| Plastics | Voice Annotation | (Available with Upgrade) | Maximum 45s per image | |
| Rubber | File Format (Thermal) | (Available with Upgrade) | JPEG plus Temperature in 14 bit data | |
| Sanitary Processing | File Format / Size (Visible) | (Available with Upgrade) | JPEG / 60K (Typical value) | |
| Semiconductor | Video Output | t User Selectable PAL and NTSC | | |
| Steel & Iron Telecommunications | Dimensions/Weight w/o battery | | | |
| Test & Measurement | Power / Operating Time | 1 Rechargeable Lithium Ion Battery / 2 Batteries provided, approx. 3 hours operation per battery | | |
| Verification | Charging System | External AC Battery Charger included; In Camera Charging with optional AC/DC Battery Charger | | |
| Water & Wastewater | Ambient Operating Temperature | 5° to 122°F (-15° to 50°C) | | |
| Weatherization | Storage Temperature | -4° to 140°F (-20° to 60°C) | | |
| and more! | Humidity/IP Rating | ≤ 90% non-condensing / IP54 | | |
| 2 ID54 | Included Accessories | ······································ | | |
| VAREANTY IP54 Options NIST Traceable Certificate of Conformance; Extended Warranty; Auxillary C 12V DC Car Charger, AC/DC Power Supply/Charger and Internation | | | | |

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Specifications subject to change without notice

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