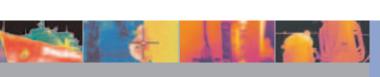


ThermaCAM® P65HS

INFRARED CAMERA



The ThermaCAM P65HS is the most highly refined infrared inspection system available today. Its powerful new features and conveniences enable the professional thermographer to work with unprecedented efficiency and productivity.



- High Thermal Sensitivity
- Precise Temperature Measurement
- Outstanding Thermal Image Quality
- ▶ JPEG Image Storage

- Removable CompactFlash™ Memory
- Interchangeable Optics
- Built-in Laser LocatIR™
- ▶ Built-in LED Target Illuminator

Features both thermal and visual camera capabilities – at the touch of a button!

Extraordinary Thermal Sensitivity and Imaging Quality

Thermal sensitivity of 0.05° C coupled with a 76,000 pixel display provides extremely accurate, high-resolution 16-bit thermal images. Plus, the state-of-the-art 320 x 240 uncooled microbolometer detector means the P65HS is ready to go in seconds. The built-in external 4-inch LCD screen displays digital images of corresponding thermal images captured by the IR system.

Easy to Operate

Ergonomic, intuitive controls make operation seamless and efficient. A user-friendly joystick, familiar menus, and soft control buttons on both the camera body and detachable handle provide for easy one-handed operation. The built-in Laser LocatIRTM provides point-and-shoot accuracy.

Rugged and Lightweight

The P65HS was designed for use in harsh environments. It has an IP54 industrial shock rating and complete environmental encapsulation. Plus, at under 4.4 lbs., it is the lightest full-featured infrared camera available.

Flexible Viewing Options

The built-in color viewfinder is ideal for outdoor applications, while the detachable 4-inch color LCD on the camera's handle adjusts to any viewing angle, and may be used to operate the camera via redundant controls - for optimal use in hard-to-reach areas - indoors and out.

Flexible Image Storage

Windows-friendly JPEG images can be transferred from RAM to a removable CompactFlash® memory card, for infinite memory capacity. The camera may be set up to automatically capture images at preset intervals.

Burst and AVI Recording

Powerful burst recording captures moving targets for sequences up to 20 minutes long. Sequences may be played back on the camera or transferred to a PC for further analysis. Moving images may be recorded in AVI file format for convenient report playback using industry-standard players.

Special Features Boost Your Efficiency

A brilliant LED target illuminator automatically turns on when required by visual lighting conditions. Powerful auto-focus and auto-hot-spot features save time and effort. The P65HS can automatically indicate the temperature and position of the hottest spot in the image and instantly calculate the difference between different measurement points. Sound and color alarms warn when targets exceed temperature maximums set by the user.

Voice Recording with Bluetooth® Technology...and More.

The P65HS can record up to 30 seconds of audio with each image. A cordless Bluetooth earpiece eliminates all cable connections, increasing operator safety. In addition, text comments for each image can be entered manually or preloaded from a PC with optional ThermaCAM® Reporter software.

Store User Profiles

Personal camera settings may be stored on the P65HS, for several users, a time-saving feature.

Wide Range of Accessories

Optional optics include: microscopic, wide-angle and telescopic to address diverse application requirements. Infrared heads-up displays (IR HUD) are available, to augment situational awareness. Power options include lightweight, rechargeable, long-life Li-lon batteries, and the ability to operate the P65HS from external power sources.

Optional Software Does the Work for You!

ThermaCAM Reporter software, the industry standard for automated report generation, makes it easy to integrate thermal and visual images along with text into MS Word by simple drag-and-drop, for great looking reports. ThermaCAM Database software enables you to trend, archive, and organize inspection data and reports quickly and easily. ThermaCAM Image Builder knits multiple IR images together to create a single radiometric composite.

ThermaCAM® P65HS Technical Specifications

Measurement -40° C to +120° C (-40° F to +248° F), Range 1 0° C to +250° C (-432° F to 482° F), Range 2 1-150° C to +500° C (302° F to 593° F), Range 3 Up to +1500° C (1-232° F to 482° F), Range 3 Up to +1500° C (1-232° F to 482° F), Range 3 Up to +1500° C (1-232° F to 482° F), Range 3 Up to +1500° C (1-232° F), optional Accuracy (% of reading) ### Accuracy (Imaging Performance	
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Thermal sensitivity # 50/60Hz SomK at 30°C (80°T)		
Electronic zoom function 2.4,8, interpolating Focus Automatic or manual Digital image enhancement Normal and enhanced Detector type Focal plane array (FPA) uncooled microbolometer; 320 x 240 pixels Spectral range 7.5 to 13 jum Visual Visual Salit-in high-resolution color LED (TFT) Built-in high-resolution color LED (TFT) 4" LED with integrated remote con RS 170 EIA/NTSC or CCIR/PAL Measurement 4.0° C to +320° C (430° E to 432° F), Range 2 +150° C to +520° C (430° E to 432° F), Range 2 +150° C to +520° C (430° E to 432° F), Range 2 +150° C to +520° C (430° E to 432° F), Range 3 Up to +150° C (427° E to 432° F), Range 4 Up to 150° C (427° E to 432° F), Range 4 Up to 150° C (427° E to 432° F), Range 4 Up to 150° C (427° E to 432° F),	Spatial resolution (IFOV)	1.1 mrad
Pocus Automatic or manual	Thermal sensitivity @ 50/60Hz	50 mK at 30° C (86° F)
Digital image enhancement Discotor type Focal plane array (FPA) uncooled microbolometer, 329 x 249 pixels Spectral range 7.5 to 13 jmm Visual Built-in digital video 640 x 480 pixels, full color Image Presentation Viewfinder Built-in high-resolution color LCD (TFT) External display Built-in high-resolution color LCD (TFT) 4" LCD with integrated remote correct on the presentation Measurement 440" C to +120" C (440" F to +248" F), Range 1 0" C to +250" C (+327" to +328" F), Range 2 +150" C to +500" C (302" F to 932" F), Range 3 Up to +1500" C (+327" F), polymain Accuracy (% of reading) 42" C or ±28% Handle special	Electronic zoom function	2,4,8, interpolating
Detector type Focal plane array (FPA) uncooled microbolometer; 320 x 240 pixels	Focus	Automatic or manual
Spectral range 7,5 to 13 µm	Digital image enhancement	Normal and enhanced
Wisual Built-in digital video 640 x 480 pixels, full color Image Presentation Viewfinder Built-in high-resolution color LCD (TFT) External display Built-in high-resolution color LCD (TFT) 4" LCD with integrated remote cor R5 170 ElAR/TISC or CCIR/PRL Temperature ranges -40° C to +120° C (-40° F to +248° F), Range 1 0° C to +250° C (-132° F to 482° F), Range 2 +150° C to +500° C (302° F to 932° F), Range 3 Up to +1500° C (-132° F to 1482° F), Range 3 Up to +1500° C (-132° F to 1932° F), polymal 3 Accuracy (% of reading) -2 ° C or ±20° -4 ° C to ±20° -4 ° C	Detector type	Focal plane array (FPA) uncooled microbolometer; 320 x 240 pixels
Built-in digital video G40 x 480 pixels, full color	Spectral range	7.5 to 13 µm
Wewfinder	Visual	
Sulli-in high-resolution color LCD (TFT)	Built-in digital video	640 x 480 pixels, full color
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Temperature ranges	External display	Built-in high-resolution color LCD (TFT) 4" LCD with integrated remote cont RS 170 EIA/NTSC or CCIR/PAL
Temperature ranges O" Cto +250° C (+325° E, 16 482° E), Range 2 +150° Cto +260° C (302° E to 282° E), Range 3 Up to +150° Cto +260° C (302° E to 282° E), Range 3 Up to +150° Ct +2732° F), optional ± 2° C or ± 2% Up to 10 movable spots. Automatic temperature difference (A) and placement and reading of maximum and minimum temperatures. Up to 5 movable cride areas or boxes. Up to 15 or boxe	Measurement	
Measurement modes Up to 10 movable spots. Automatic temperature difference (Δ) and placement and reading of maximum and minimum temperatures. Up to 5 movable circle areas or boxes. Up to 2 siotherms. Line profile. Emissivity correction Variable from 0.1 to 1.0 or select from listings in pre-defined material list temperature, distance, relative humidity, atmospheric transmission, and external optics. Optics transmission correction Automatic corrections based on user input for reflected ambient temperature, distance, relative humidity, atmospheric transmission, and external optics. Optics transmission correction Automatic, based on signals from internal sensors Image Storage Type Removable CompactFlash® (256 MB) memory card (up to 1,000 images): built-in Rash memory for burst and All record for the profile format - THERMAL Standard JPEG; 14 bit thermal measurement data included File format - VISUAL Standard JPEG; 14 bit thermal measurement data included File format - VISUAL Standard JPEG; 14 bit thermal measurement data included Gillad voice disper image stored with image Input via supplied Bluetooth® wireless headset up to 30 seconds of digital voice (lip per image stored with image Text annotation of images Predefined by user and storage media. Indication of power, communication and storage media. Indicatio	Temperature ranges	0° C to +250° C (+32° F to 482° F), Range 2 +150° C to +500° C (302° F to 932° F), Range 3
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temperature, distance, relative humidity, atmospheric transmission, and external optics	Emissivity correction	
Image Storage Type Removable CompactFlash® (256 MB) memory card (up to 1,000 images); built-in Flash memory (100 images); built-in Flash memory (100 images); built-in RAM memory for burst and AM recon File format - THERMAL Standard JPEG; 14 bit thermal measurement data included File format - VISUAL Voice annotation of images Input via supplied Bluetooth® wireless headset up to 30 seconds of digital voice clip per image stored with image Text annotation of images Predefined by user and stored with image System Status Indicator LCD display Shows status of battery and storage media. Indication of power, communication and storage modes. Laser LocatIR™ Classification type Class 2 Semiconductor AlGaInP Diode Laser: 1 mW/635 nm (red) Power Source Battery type Li-lon, rechargeable, field-replaceable Battery operating time 2 hours continuous operation Charging system In camera (AC adapter or 12V from car) or 2 bay intelligent charger External power operation AC adapter 110/220 VAC, 50/60Hz or 12V from car (cable with standard plug optional) Power saving Automatic shutdown and sleep mode (user-selectable) Environmental Operating temperature range -15° C to +50° C (5° F to 158° F) Humidity Operating and storage 10% to 95%, non-condensing Encapsulation IP 54 IEC 529 Shock Operational: 2G, IEC 68-2-29 Vibration Operational: 2G, IEC 68-2-29 Physical Characteristics Weight 20 kg (4.4 lbs) w/battery and top handle (includes remote control, LCD, video camera and laser) 1.4 kg (3.1 lbs) excluding battery and handle Size 100mm x 120mm x 220 mm (3.9° x 4.7° x 8.7°) camera only	Measurement correction	temperature, distance, relative humidity, atmospheric transmission,
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Input via supplied Bluetooth® wireless headset up to 30 seconds of digital voice clip per image stored with image	File format – THERMAL	Standard JPEG; 14 bit thermal measurement data included
digital voice clip per image stored with image Text annotation of images Predefined by user and stored with image System Status Indicator LCD display Shows status of battery and storage media. Indication of power, communication and storage modes. Laser LocatIR™ Classification type Class 2 Semiconductor AlGaInP Diode Laser: 1 mW/635 nm (red) Power Source Battery type Li-lon, rechargeable, field-replaceable Battery operating time 2 hours continuous operation Charging system In camera (AC adapter or 12V from car) or 2 bay intelligent charger External power operation AC adapter 110/220 VAC, 50/60Hz or 12V from car (cable with standard plug optional) Power saving Automatic shutdown and sleep mode (user-selectable) Environmental Operating temperature range -15° C to +50° C (5° F to 122° F) Storage temperature range -40° C to +70° C (-40° F to 158° F) Humidity Operating and storage 10% to 95%, non-condensing Encapsulation IP 54 IEC 529 Shock Operational: 25G, IEC 68-2-29 Vibration Operational: 25G, IEC 68-2-6 Physical Characteristics Weight 2.0 kg (4.4 lbs) w/battery and top handle (includes remote control, LCD, video camera and laser) 1.4 kg (3.1lbs) excluding battery and handle Size 100mm x 120mm x 220 mm (3.9" x 4.7" x 8.7") camera only	File format -VISUAL	Standard JPEG linked with corresponding thermal image
System Status Indicator LCD display Shows status of battery and storage media. Indication of power, communication and storage modes. Laser LocatIR™ Classification type Class 2 Semiconductor AlGaInP Diode Laser: 1 mW/635 nm (red) Power Source Battery type Li-lon, rechargeable, field-replaceable Battery operating time 2 hours continuous operation Charging system In camera (AC adapter or 12V from car) or 2 bay intelligent charger External power operation AC adapter 110/220 VAC, 50/60Hz or 12V from car (cable with standard plug optional) Power saving Automatic shutdown and sleep mode (user-selectable) Environmental Operating temperature range -15° C to +50° C (5° F to 122° F) Storage temperature range -40° C to +70° C (-40° F to 158° F) Humidity Operating and storage 10% to 95%, non-condensing Encapsulation IP 54 IEC 529 Shock Operational: 25G, IEC 68-2-29 Vibration Operational: 2G, IEC 68-2-29 Physical Characteristics Weight 2.0 kg (4.4 lbs) w/battery and top handle (includes remote control, LCD, video camera and laser) 1.4 kg (3.1 lbs) excluding battery and handle Size 100mm x 120mm x 220 mm (3.9" x 4.7" x 8.7") camera only	Voice annotation of images	digital voice clip per image stored with image
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Class 2 Semiconductor AlGaInP Diode Laser: 1 mW/635 nm (red) Power Source Battery type	LCD display	
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Battery operating time 2 hours continuous operation Charging system In camera (AC adapter or 12V from car) or 2 bay intelligent charger External power operation AC adapter 110/220 VAC, 50/60Hz or 12V from car (cable with standard plug optional) Power saving Automatic shutdown and sleep mode (user-selectable) Environmental Operating temperature range -15° C to +50° C (5° F to 122° F) Storage temperature range -40° C to +70° C (-40° F to 158° F) Humidity Operating and storage 10% to 95%, non-condensing Encapsulation IP 54 IEC 529 Shock Operational: 25G, IEC 68-2-29 Vibration Operational: 2G, IEC 68-2-6 Physical Characteristics Weight 2.0 kg (4.4 lbs) w/battery and top handle (includes remote control, LCD, video camera and laser) 1.4 kg (3.1lbs) excluding battery and handle Size 100mm x 120mm x 220 mm (3.9" x 4.7" x 8.7") camera only	Power Source	
Charging system In camera (AC adapter or 12V from car) or 2 bay intelligent charger External power operation AC adapter 110/220 VAC, 50/60Hz or 12V from car (cable with standard plug optional) Power saving Automatic shutdown and sleep mode (user-selectable) Environmental Operating temperature range -15° C to +50° C (5° F to 122° F) Storage temperature range -40° C to +70° C (-40° F to 158° F) Humidity Operating and storage 10% to 95%, non-condensing Encapsulation IP 54 IEC 529 Shock Operational: 25G, IEC 68-2-29 Vibration Operational: 2G, IEC 68-2-6 Physical Characteristics Weight 2.0 kg (4.4 lbs) w/battery and top handle (includes remote control, LCD, video camera and laser) 1.4 kg (3.1lbs) excluding battery and handle Size 100mm x 120mm x 220 mm (3.9" x 4.7" x 8.7") camera only	Battery type	Li-lon, rechargeable, field-replaceable
AC adapter 110/220 VAC, 50/60Hz or 12V from car (cable with standard plug optional) Power saving Automatic shutdown and sleep mode (user-selectable) Environmental Operating temperature range -15° C to +50° C (5° F to 122° F) Storage temperature range -40° C to +70° C (-40° F to 158° F) Humidity Operating and storage 10% to 95%, non-condensing Encapsulation IP 54 IEC 529 Shock Operational: 25G, IEC 68-2-29 Vibration Operational: 2G, IEC 68-2-6 Physical Characteristics Weight 2.0 kg (4.4 lbs) w/battery and top handle (includes remote control, LCD, video camera and laser) 1.4 kg (3.1lbs) excluding battery and handle Size 100mm x 120mm x 220 mm (3.9" x 4.7" x 8.7") camera only	Battery operating time	2 hours continuous operation
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camera and laser) 1.4 kg (3.1lbs) excluding battery and handle Size 100mm x 120mm x 220 mm (3.9" x 4.7" x 8.7") camera only	Physical Characteristics	201=/44152
·		camera and laser) 1.4 kg (3.1lbs) excluding battery and handle
Tripod mounting 1/4"– 20		·

Camera includes:		
IR camera with visual camera, Laser LocatIR, remote control w/ LCD display		
High-output multi-LED target light		
Bluetooth® wireless headset		
Carrying case, lens cap, shoulder strap, hand strap		
Manual (multi-lingual)		
Batteries (2)		
Power supply		
Battery charger		
FireWire® (IEEE 1394) cable		
Video cable with RCA plug		
USB cable		
256 MB CompactFlash® card		
ThermaCAM® QuickView™ software		
Lenses (optional) Field of view/minimum focus distance		
3X Telescope (5.6° x 4.2°/4m)		
2X Telescope (3.6 X 4.2 /411) 2X Telescope (10° X 7.5°/1.2m)		
0.5X Wide angle (37° x 28°/01m)		
· · · · · · · · · · · · · · · · · · ·		
0.3X Wide angle (68° x 51°/0.1m) 162 µm Close-up (64mm x 48mm/150mm)		
88 µm Close-up (34mm x 25mm/80mm)		
38 µm Close-up (15mm x 11mm/19mm)		
Wearable Optics/Heads-up Display		
Interfaces		
USB / RS232	Image (thermal and visual), measurement data, voice and text transfer to PC	
IrDA	Two-way data transfer from laptop, PDA	
Remote control	Removable handle with redundant controls and LCD	
Firewire output (IEEE 1394)	Real-time digital transfer of thermal images (DV)	

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