DT-980

HIGH PERFORMANCE THERMAL IMAGER

The Thermal Imager is handheld imaging camera used for predictive maintenance, equipment troubleshooting, and verification. Thermal and visual images are displayed on the LCD and can be saved to a Micro SD Memory card. Transferring images to a PC is accomplished by removing the SD memory card and connecting it to a PC through the included card reader.

In addition to the features mentioned above, the Thermal Imager provide video recording with audio and play back.

DT-980 (80x80) Thermal Imager is designed to make your work easier, more productive and effective. 80 × 80 resolution at 50 Hz for real-time capture; Temperature range from -20°C to 350°C (-4°F to 662°F), 32X continuous zoom, picture-in-picture, voice comment recording and text annotation on images. Hot/Cold spot marker automatically finds the hottest and coldest spots. It includes memory card, Lithium polymer battery & power supply, and USB cable.

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبـروی پالایشگاه نفت پارس، پلاک ۱۲

DT-980 | High Performance Thermal Imager

Product Characteristics

High Resolution IR Images : (80x80) Infrared resolution

Visible Light Digital Camera : 5 Megapixels Digital camera resolution with flash provides sharp images regardless of lighting conditions

Picture in Picture : Displays thermal image super-imposed over a digital image

LED Flashlight : Allows the visual camera and fusion to be used in poorly lit environments

Wide Temperature Range : From -20 to +350°C targeting electrical and industrial applications ±2% Accuracy reliable temperature measurement

Thumbnail view : Easy to view and analyze images quickly

Audio recorded with the video image : A speaker to listen to audio recorded with the video image

Li-Ion Rechargable Battery: Lasts >4hrs continuous use; replaceable

HDMI : HDMI High resolution video output

Inside 100M Memory : About 80pictures or one minute video record
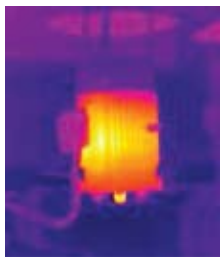
Copy to USB : Easy uploads images from camera to USB memory card

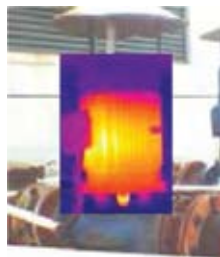**Area (Min/Max) Mode :** Shows the Minumum or the Maximum Temperature reading in the selected area

Laser Sighting : To aim at the target

CE

EMC
EN: 61326-1
EN: 61010-1

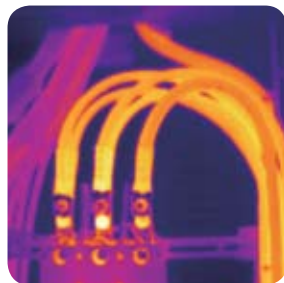Full Infrared   Picture-in-Picture

1 3.5" Touch-Screen LCD Display

2 Annotate Images with Voice

3 Picture-in-Picture

4 32X Continuous Zoom

5 Area Min Max with Auto Hot/Cold Mark

Specifications

Imaging and optical data	
Field of view (FOV) / Minimum focus distance	17°x 17°/ 0.5m
Spatial resolution (IFOV)	3.78mrad
Thermal sensitivtvy/NETD	< 0.1°C@+30°C (+86°F) / 100 mK
Image Frequency	50Hz
Focus mode	Manual
Zoom	1–32× continuous, digital zoom
Focal length	9mm
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8–14 μm
IR resolution	80 × 80 pixels
Image presentation	
Display	2.8 in. LCD, 240 × 320 pixels
Image modes	IR image, Visual image, Image Fusion
Color palettes	IRON, Rainbow, Grey, Grey Inverted
Measurement	
Object temperature range	−20°C to +150°C (−4°F to +302°F)
	0°C to +350°C (+32°F to +662°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Spot	Center Spot
Automatic hot/cold detection	Auto hot or cold markers
Emissivity correction	Variable from 0.01 to1.0
Measurement corrections	Emissivity, Reflected temperature
Storage of Videos	
Storage media	8Gbytes Micra SD card
Video storage format	Standard MPEG-4 encode, 1280x960@30fps, on memory card > 60 minutes
Video storage format	IR/visual images; simultaneous storage of IR and visual images
Storage of Images	
Image storage format	Standard JPEG, including measurement data, on memory card > 2000 pictures

Image storage mode	IR/visual images; simultaneous storage of IR and visual images
Set-up	
Laser	< class2
Set-up commands	Local adaptation of units, language, date and time formats, information of camera
Languages	multinational
Digital Camera	
Built-in digital camera	5 Megapixels
Built-in digital lens data	FOV 59°
Data communication interfaces	
Interfaces	USB-mini, audio, HDMI
USB	Data transform between camera and PC Live video between camera and PC
Video out	HDMI
Power System	
Battery	Li-ion battery, 4 hours operating time
Input voltage	DC 5V
Charging system	In camera (AC adapter)
Power management	Automatic shutdown
Environmental data	
Operating temperature range	−20°C to +50°C (-4°F to +122°F)
Storage temperature range	−40°C to +70°C (−40°F to +158°F)
Humidity operating & storage	10%~90%
Drop test	2m
Bump	25g(IEC60068-2-29)
Vibration	2g(IEC60068-2-6)
Physical data	
Camera weight, incl. battery	<500g
Camera size (L x W x H)	224x77x96

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روبـروی پالایشگاه نفت پارس، پلاک ۱۲

DT-980

High Performance Thermal Imager

Item	Qty.	Description
Thermal Imager	1	
Lens	1	Field of view = 17°x 17°, f = 9mm (in-built)
Li-ion battery	1	3.7V, 2600mAH
Adaptor	1	Input AC Volts: 100V~240V, 50/60HZ, MAX 0.9A. Output DC Volts: 5V, 3500mA
Micro SD	1	8Gbyte
USB cable	1	
HDMI cable	1	
Earphone	1	
Wrist strip	1	
User manual	1	
Warranty Card	1	
PC software installation CD	1	
Gift box & carrying case	1	

Standard Accessories

Carrying Case, Test Certificate, Testing Leads, Temperature Probe, Battery Charger, Adaptor and Instruction Manual.

Contact :

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبـروی پالایشگاه نفت پارس، پلاک ۱۲

DT-982

HIGH PERFORMANCE THERMAL IMAGER

The Thermal Imager is handheld imaging camera used for predictive maintenance, equipment troubleshooting, and verification. Thermal and visual images are displayed on the LCD and can be saved to a Micro SD Memory card. Transferring images to a PC is accomplished by removing the SD memory card and connecting it to a PC through the included card reader.

In addition to the features mentioned above, the Thermal Imager provide video recording with audio and play back.

DT-982 (160x120) Thermal Imager is designed to make your work easier, more productive and effective. 160 × 120 resolution at 50 Hz for real-time capture; Temperature range from -20°C to 350°C (-4°F to 662°F), 32X continuous zoom, picture-in-picture, voice comment recording and text annotation on images. Hot/Cold spot marker automatically finds the hottest and coldest spots. It includes memory card, Lithium polymer battery & power supply, and USB cable.

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تهران ، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبـروی پالایشگاه نفت پارس، پلاک ۱۲

Product Characteristics

High Resolution IR Images : (160x120) Infrared resolution

Visible Light Digital Camera : 5 Megapixels Digital camera resolution with flash provides sharp images regardless of lighting conditions

Picture in Picture : Displays thermal image super-imposed over a digital image

LED Flashlight : Allows the visual camera and fusion to be used in poorly lit environments

Wide Temperature Range : From -20 to +350°C targeting electrical and industrial applications ±2% Accuracy reliable temperature measurement

Thumbnail view : Easy to view and analyze images quickly

Audio recorded with the video image : A speaker to listen to audio recorded with the video image

Li-Ion Rechargable Battery: Lasts >4hrs continuous use; replaceable

HDMI : HDMI High resolution video output

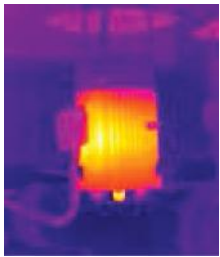**Inside 100M Memory :** About 80pictures or one minute video record

Copy to USB : Easy uploads images from camera to USB memory card

Area (Min/Max) Mode : Shows the Minumum or the Maximum Temperature reading in the selected area
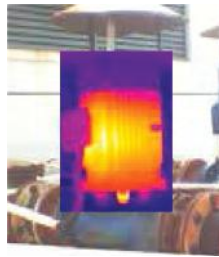
Laser Sighting : To aim at the target

CE

EMC
EN: 61326-1
EN: 61010-1

Full Infrared

Picture-in-Picture

Color Alarms
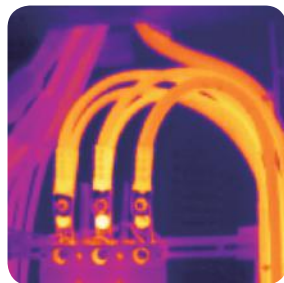
Full visible light

1   2.8" Touch-Screen LCD Display

2   Annotate Images with Voice

3   Picture-in-Picture

4   32X Continuous Zoom

5   Area Min Max with Auto Hot/Cold Mark

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روبـروی پالایشگاه نفت پارس، پلاک 12

DT-982 | High Performance Thermal Imager

Specifications

Imaging and optical data	
Field of view (FOV) / Minimum focus distance	19°x 25°/ 0.5m
Spatial resolution (IFOV)	2.78mrad
Thermal sensitivitvy/NETD	< 0.1°C@+30°C (+86°F) / 100 mK
Image Frequency	50Hz
Focus mode	Manual
Zoom	1–32× continuous, digital zoom
Focal length	9mm
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8–14 µm
IR resolution	160 x 120 pixels
Image presentation	
Display	2.8 in. LCD, 240 × 320 pixels
Image modes	IR image, Visual image, Image Fusion
Color palettes	IRON, Rainbow, Grey, Grey Inverted
Measurement	
Object temperature range	−20°C to +150°C (−4°F to +302°F)
	0°C to +350°C (+32°F to +662°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Spot	Center Spot
Automatic hot/cold detection	Auto hot or cold markers
Emissivity correction	Variable from 0.01 to1.0
Measurement corrections	Emissivity, Reflected temperature
Storage of Videos	
Storage media	8Gbytes Micra SD card
Video storage format	Standard MPEG-4 encode, 1280x960@30fps, on memory card > 60 minutes
Video storage format	IR/visual images; simultaneous storage of IR and visual images
Storage of Images	
Image storage format	Standard JPEG, including measurement data, on memory card > 6000 pictures

Image storage mode	IR/visual images; simultaneous storage of IR and visual images
Set-up	
Laser	< class2
Set-up commands	Local adaptation of units, language, date and time formats, information of camera
Languages	multinational
Digital Camera	
Built-in digital camera	5 Megapixels
Built-in digital lens data	FOV 59°
Data communication interfaces	
Interfaces	USB-mini, audio, HDMI
USB	Data transform between camera and PC Live video between camera and PC
Video out	HDMI
Power System	
Battery	Li-ion battery, 4 hours operating time
Input voltage	DC 5V
Charging system	In camera (AC adapter)
Power management	Automatic shutdown
Environmental data	
Operating temperature range	−20°C to +50°C (-4°F to +122°F)
Storage temperature range	−40°C to +70°C (−40°F to +158°F)
Humidity operating & storage	10%~90%
Drop test	2m
Bump	25g(IEC60068-2-29)
Vibration	2g(IEC60068-2-6)
Physical data	
Camera weight, incl. battery	<500g
Camera size (L x W x H)	224x77x96

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روبروی پالایشگاه نفت پارس، پلاک 12

DT-982 | High Performance Thermal Imager

Item	Qty.	Description
Thermal Imager	1	
Lens	1	Field of view = 19° x 25°, f = 9mm (in-built)
Li-ion battery	1	3.7V, 2600mAH
Adaptor	1	Input AC Volts: 100V~240V, 50/60HZ, MAX 0.9A. Output DC Volts: 5V, 3500mA
Micro SD	1	8Gbyte
USB cable	1	
HDMI cable	1	
Earphone	1	
Wrist strip	1	
User manual	1	
Warranty Card	1	
PC software installation CD	1	
Gift box & carrying case	1	

Standard Accessories

Carrying Case, Test Certificate, Testing Leads, Temperature Probe, Battery Charger, Adaptor and Instruction Manual.

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبـروی پالایشگاه نفت پارس، پلاک ۱۲

DT-9875

Thermal Imager

DT-9875 Thermal Imager is designed to make your work easier, more productive and effective. 160 x120 resolution at 50 Hz for real-time capture; a big, bright touch screen with toolbar helps you to fine-tune and analyze images quickly. Temperature range from -20°C to 400°C (-4°F to 752°F), 20X continuous zoom, picture-in-picture, voice comment recording and text annotation on images. Hot/Cold spot marker automatically finds the hottest and coldest spots. It includes memory card, lithium polymer battery & power supply, and USB cable.

FEATURES

High Resolution IR Images:
19,200 pixels (160x120) Infrared Resolution

Visible Light Digital Camera:
640x480 Resoulution with flash provides sharp images regardless of lighting conditions.

LED Flashlight:
Allows the visual camera and fusion to be used in poorly lit environments

Wide Temperature Range :
Form -20°C to +400°C targeting electrical and industrial applications

Thumbnail View :
Easy to view and analyze images quickly

The Image Rotation :
The ability to automatically rotate the active image

Audio recorded with the video image:
A speaker to listen to audio recorded with the video image

Capacitive Touch Screen :
More easy, productive and effective to operate it

Lithium Polymer Rechargable Battery :
Lasts > 4hrs continuous use; replaceable

Copy to USB :
Easy uploads images from Camera to USB memory card

Area (Min / Max) Mode :
Shows the Minimum or the Maximum Temperature reading in the selected area

APPLICATIONS

Plant/General Maintenance • HVAC/R • Transportation / Automotive • Cooling and Reheating • Serving Areas • Food Service Equipment • Cold Storage

SPECIFICATIONS

Imaging And Optical Data	
Field of View (FOV) Minimum focus Distance	33° x 24° / 0.3m
Spatial Resolution (IFOV)	3.33mrad
Thermal Sensitivity / NETD	<0.08°C @ + 30°C (+86°F) /80mk
Image Frequency	50Hz
Focus mode	Manual
Zoom	1-20x Continuous, Digital Zoom
Rotate	0°-360°, Continuous increased by 1°
Focal Length	7.5mm
IR Resolution	160 x 120 pixel
Focal Plane Array (FPA) I Spectral Range Uncooled Microbolometer / 8-14µm	
Image Presentation	
Display	Capacitive Touch screen, 3.5 in. LCD, 320 x 240 pixels
Image modes	IR image visual image, picture in picture Image Fusion
Picture in Picture	IR Area on Visual Image or Visual Image Area on IR
Color Palettes	GRAY / GRAYINV / IRON / IRONINV / RAINBOW / FEATHER
Measurement	
Object Temperature Range	Low Range -20°C to + 150°C (-4°F to + 302°F) High Range 0°C to + 400°C (+32°F to + 752°F)
Accuracy	±2°C (±3.6°F) or ±2% of Reading
Measurement Analysis	
Spot	3
Line	2 lines (Horizontal and Vertical)
Area	3 Boxes with max. / min. / Average
Automatic Hot / Cold Detection	Auto Hot or Cold Markers
Isotherm	Detect High / Low Temperature / Interval
Emissivity Correction	Variable from 0.01 to 1.0
Measurement corrections	Emissivity, Ambient Temperature, Distance, Relative Humidity, Offset Temperature
Storage Of Videos	
Storage Media	4 Gbytes Micro SD Card
Video Storage format	Standard MPEG-4, 640x480@30fps, on Memory Card > 60 Minutes
Video Storage Mode	IR / Visual Images; Simultaneous Storage of IR and Visual Images
Storage Of Images	
Image Storage Format	Standard JPEG, Including Measurement Data, on Memory Card > 1000 Pictures
Image Storage Mode	IR / Visual Images; Simultaneous Storage of IR and Visual Images
Set-Up	
Laser	< class2
Set-up Commands	Local Adaptation of Units, Language, Date and Time Formats, Information of Camera

SPECIFICATIONS

Digital Camera	
Built-in Digital Camera	640 x 480 pixels
Built-in Digital Lance Data	FOV62.3°
Data Communication Interfaces	
Interfaces	USB-mini, audio, Composite Video, Micro SD Slot
USB	Data Transform Between Camera and PC
Video Out	Composite (PAL and NTSC)
Power System	
Battery	Lithium Polymer Battery, 4.5 Hours Operating Time
Input Voltage	DC 9V to 12V
Charging System	In Camera (AC Adapter)
Power Management	Automatic Shutdown and Sleep Mode (user selectable)
Environmental Data	
Operating Temperature Range	-20°C to + 50°C (-4°F to + 122°F)
Storage Temperature Tange	-40°C to + 70°C (-40°F to + 158°F)
Relative Humidity (operating and storage)	10% ~ 90%
Encapsulation	IP65
Drop test	2m
Bump	25g (IEC60068-2-29)
Vibration	2g (IEC60068-2-6)
Physical Data	
Camera Weight, incl. Battery	920g
Camera Size (L x W x H)	243 x 103 x 160

INCLUDED ACCESSORIES:

Hard Transport Case, 7.5mm Lens, Sun Visor, Tripod Base, AC Charger / Power Supply, Earphone, Battery, Camera Leans Cap, Software CD-ROM, Handstrap, Micro SD Card, USB Cable & RCA Cable, Gift Box.

Optinal Accessories : 33mm Lens / 22mm Lens 11mm Lens

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تهران ، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبـروی پالایشگاه نفت پارس، پلاک ۱۲

FAMCO
هایپـرصنعت
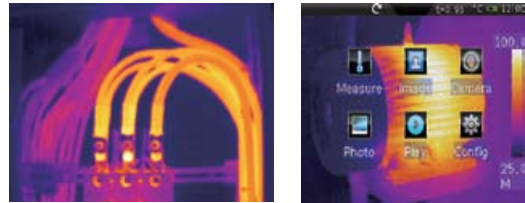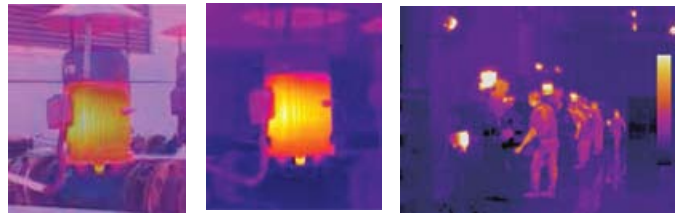
COMPLIES COMPLETELY WITH
RDSO SPECS NO.
TI / SPC / OHE / TIPS / 1031 (Dec 2013)

DT-9885
Performance Thermal Imager

DT-9885 is High Performance Thermal Imager with high resolution 384x288, help you to find the potential problems with innovation features and functionality, you can perform infrared inspections faster and more efficiently and thoroughly document problem areas for additional information.

KEY FEATURES

384x288 High Performance & high resolution Thermal Imager with TFT color LCD display

Professional IR-optical focus system ensures that images are in good focus for optimum image clarity and scanning convenience

Thermview analysis system—quickly identify and keep track of inspection locations by adding digital images of important information and surrounding areas

Finds problems faster and easier by accurately identifying potential issues by combining digital and IR images

Picture in Picture function Displays Thermal Image super-imposed over a digital image

LED Flashlight allows the visual camera and fusion to be used in poorly lit environments

Wide Temperature Range from -20 to +500°C targeting electrical and industrial applications

±2% Accuracy for reliable temperature measurement

The image rotation facility allows to automatically rotate the active image

Audio recording with the video image acts as a speaker to listen to audio recorded with the video image

Capacitive touch screen is easier, productive and efficient to operate it

Lithium polymer Rechargeable Battery lasts > 4hrs continuous use; and is replaceable

An easy-to-access thumbnail image gallery helps you to quickly review and find your thermal images.

Area (Min/Max) mode shows the Minimum or the Maximum Temperature reading in the selected area

A conveniently located button activates the laser pointer that will help you associate the hot or cold spot in the thermal image with the real physical target in the field.

In order to adapt the device to every situation both wide angle and tele-lenses are available.

Equipped with standard video, USB outputs as well as a removable SD card.

SPECIFICATIONS

Imaging And Optical Data	
IR Resolution	384 x 288 pixels, Focal Plane Array (FPA), Uncooled Microbalomenter
Field of View (FOV)	24.6° x 18.6°
Minimum focus Distance	0.3m (0.99ft.)
Spatial Resolution	(IFOV) 1.14mrad
Thermal Sensitivity / NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Image Frequency	50Hz
Focus mode	Manual
Zoom	1-20x Continuous, Digital Zoom
Rotate	0°- 360°, Continuous Change by 1°
Image Presentation	
Display	3.5" TFT, Capacitive Touch Screen
Image modes	IR Image, Visual Image, Picture in Picture
Picture in Picture	IR Area on Visual Image or Visual Image Area on IR
Color Palettes	IRON / RAINBOW / GREY/ GREY INVERTED / SEPIA / BLUE-RED / HOT-COLD / FEATHER
Measurement	
Object Temperature Range	Low Range -20°C to + 150°C (-4°F to + 302°F) High Range 0°C to + 500°C (+32°F to + 932°F)
Accuracy	±2°C (±3.6°F) or ±2% of Reading
Measurement Analysis	
Spotmeter	3
Emissivity Adjustable	0.01 ~ 1.0 Adjustable
Emissivity Table	Emissivity Table of Predefined Materials
Line	2 lines (Horizontal and Vertical)
Area	3 Boxes with max. / min. / Average
Automatic Hot / Cold Detection	Auto Hot or Cold Spotmeter Markers
Isotherm	Detect High / Low Temperature / Interval
Difference Temperature	Delta Temperature Between Measurement Pointer and Reference Pointer
Measurement corrections	Emissivity, Ambient Temperature, Distance, Relative Humidity, Offset Temperature
Set-Up	
Laser / Food light	< class2 / white LED Floodlight
Set-up Commands	Local Adaptation of Units, Language, Date and Time Formats, Information of Camera
Languages	English, Chinese, French, German, Spanish
Storage Of Videos	
Storage Media	4 Gbytes Micro SD Card
Video Storage format	Standard MPEG-4, 640x480@30fps, on Memory Card > 60 Minutes
Video Storage Mode	IR / Visual Images; Simultaneous Storage of IR and Visual Images
Storage Of Images	
Image Storage Format	Standard JPEG, Including Measurement Data, on Memory Card > 1000 Pictures
Image Storage Mode	IR / Visual Images; Simultaneous Storage of IR and Visual Images

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تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبـروی پالایشگاه نفت پـارس، پلاک ۱۲

SPECIFICATIONS

Annotations	
Text Annotations	User defined text annotations with each image using onscreen keyboard
Voice Annotations	Users can record upto 60 seconds of voice tag along with each image
Digital Camera	
Built-in Visible Light Digital Camera	2 Mega pixels
Data Communication Interfaces	
USB Interfaces	USB-mini, data transform between camera and PC
Video Out	Composite (PAL and NTSC)
Power System	
Battery	Lithium polymer battery, 4 hours operating time
Input Voltage	DC 9V to 12V
Charging System	In camera (AC adapter)
Power Management	Automatic shutdown and sleep mode (user selectable)
Environmental Data	
Operating Temperature Range	-20°C to + 50°C (-4°F to + 122°F)
Storage Temperature Range	-40°C to + 70°C (-40°F to + 158°F)
Relative Humidity (operating and storage)	0% to 90% non condensing
Encapsulation	IP65
Drop test	2m
Bump	25g (IEC60068-2-29)
Vibration	2g (IEC60068-2-6)
Size (H x W x D)	243mm x 103mm x 160mm
Weight	920g

APPLICATIONS

HVAC/R
Transportation / Automotive
Cooling and Reheating
Serving Areas
Food Service Equipment
Cold Storage

INCLUDED ACCESSORIES:

Hard Transport Case, 22mm Lens, Sun Visor, Tripod Base, AC Charger / Power Supply, Earphone, Battery, Camera Leans Cap, Software CD-ROM, Handstrap, Micro SD Card, USB Cable & RCA Cable, Gift Box.

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