

Dräger UCF® 9000 Thermal Imaging Camera Top-of-the-line imager for diverse applications

When you enter an unknown environment, you need all the information you can get – as quickly and easily as possible. The Dräger UCF® 9000 is an intrinsically safe, NFPA 1801-2013 approved thermal imaging camera that produces videos and high-resolution digital images for complex firefighting operations, search and rescue, HAZMAT and more.



D-62970-2012

- 384 × 288 pixel resolution and 4× zoom provide a highly detailed view of the situation
- Video playback for instantly sharing images
- UL Class 1 Division 2 design is intrinsically safe
- 8 application-specific modes let you optimize the display for firefighting, search and rescue, and hotspot identification and more
- Provides visibility in temperatures up to 1,842°F
- One-hand operation provides ease of use and enhanced mobility
- Brightness sensor adapts the display to all lighting conditions
- Integrated laser pointer pinpoints hazards and aids communications
- Image display maintains a vertical orientation for accurate viewing
- Snapshot function allows freeze-frame imaging of difficult areas
- Lightweight and ergonomic design helps minimize fatigue
- Integrated video and sound recording supports safety training and more
- Extended life battery supports confidence and peace of mind
- Exceeds the NFPA 1801 standard for durability



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Dräger UCF® 9000 NFPA-certified thermal imaging camera

KNOW BEFORE YOU GO

The Dräger UCF 9000 thermal imaging camera is intrinsically safe (UL Class 1, Division 2), which gives you peace of mind in hazardous areas and lets you focus on your mission. With ultra high resolution, the UCF 9000 has a wide range of innovative features that allow you to use this camera for multiple firefighting and first responder applications. The result is a high performance thermal imaging camera that is rugged, innovative, and easy to use. With a Dräger thermal imaging camera, you'll know before you go – regardless of what you face.

SEE EVERYTHING CLEARLY

The UCF 9000 offers more detail than other firefighting thermal imaging cameras and has a wide field of view that lets you see more. Even in areas where visibility is extremely limited, the UCF 9000 provides an image that is ultra clear, giving you more information on which to base tactical decisions.

Regardless of the environment, the brightness of UCF 9000 display automatically adjusts to give you a clear image to view. An extended dynamic range makes it possible to clearly detect



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384 × 288 resolution



objects and people – even when they are next to extreme heat. An ultrafast shutter provides consistent images and a clear view at all times. The UCF 9000 has a 2× and 4× zoom that gives you a closer look at hard to reach areas.

ONE-HAND OPERATION FOR EASE OF USE

The compact, lightweight design of the UCF 9000 lets you select functions using just your thumb and index finger. A detachable, extremely rugged crawling plate lets you safely brace the camera on the ground, providing an additional movement option. The UCF 9000 also offers various carrying options for optimal comfort and portability.

CONTINUOUS, AUTOMATIC RECORDING

The UCF 9000 has a black box that automatically records two hours of video. If the memory card is full, the camera will record over the beginning of the memory card. An innovative feature of the UCF 9000 is that you can instantly share videos on the display. Plus, videos and photos can be downloaded to an external device for training or documentation.

MORE MODES FOR MORE TASKS

In addition to the standard thermal mode, the UCF 9000 offers eight additional modes so you can choose the best image for the task at hand:

- Fire (firefighting)
- Persons (search and rescue)
- ThermalScan (searching for hotspots)

- Outdoor (searching for persons outside)
- Hazard (leak detection and level indicators)
- Scan PLUS (searching for heat sources – in real image)
- Visual (color video camera)
- Custom (User-defined via included software)

LASER POINTER AND FREEZE-FRAME SHOW DETAILS

The UCF 9000 has a laser pointer to mark heat sources and point out the fill level of tanks. The “snapshot” function provides a temporary freeze-frame thermal image, which then appears on the display for others to see. This feature makes it possible to see into hard to reach areas.

EXTREMELY RUGGED AND DURABLE

The UCF 9000 is designed for extended use in the most hostile environments. With an extremely durable housing, the UCF 9000 is heat resistant, withstands mechanical stresses with ease, has a high protection classification (IP67), and is resistant to water, dust and other contaminants typically encountered during emergency response situations.

UP TO 4 HOURS OF OPERATING TIME

Today's lithium-ion technology provides the UCF 9000 with up to four hours of operating time, giving you peace of mind during extended operations. There is no need to carry spare batteries or change batteries out during a responder event, so you can stay focused on the task at hand. Plus, you can extend the camera's battery life by 50% by activating standby mode. To wake up the camera, simply grab the handle.

STANDARD USB INTERFACE

The UCF 9000 includes a standard USB 2.0 interface and PC software, making it possible to configure the camera and transfer thermal videos and images directly to a PC.

TECHNICAL DATA**Dräger UCF® 9000**

Dimensions of camera (W × H × D)	4.92 × 11 × 4.33 inches (125 × 280 × 110 mm)
Weight	3 lbs (1.4 kg) including battery

Display

Technology	Liquid crystal display (LCD)
Size (diagonal)	3.5 inches (9 cm)
Application modes	Standard, Fire, Persons, ThermalScan, Outdoors, Hazardous Goods, Scan PLUS, Normal Image, User defined 1

Housing

Protection cover	Rubber material EPDM
Carrying loops	High-temperature-resistant material
Housing material	High-temperature-resistant plastic
Protection class	IP67

Infrared specifications

Type of sensor	a-Si Microbolometer Array
Resolution	384 × 288 pixels
IR spectral	7 to 14 µm
Temperature sensitivity	Approximately 0.063°F (0.035°C)
Picture frequency	50 Hz

Optics

Material	Germanium
Focus	1 m to infinity
Field of view	Horizontal: 57° / Vertical: 41° / Diagonal: 74°

Operation

Operation time (at 73°F) with battery	Approximately 4 hours
Temperature measurement	Digital display: -40°F to 1,832°F (-40°C to 1,000°C)
Operating temperature	-40°F to 185°F (-40°C to 85°C) (inside camera), 300°F (150°C) for 20 min, 500°F (260°C) for 10 min
Battery technology	Rechargeable lithium-ion batteries
Battery status display	Precise 4-level battery indicator

Approvals

The Dräger UCF® 9000 meets the following regulations:

NFPA 1801-2013 Approved

IEC 60079-0:2007
IEC 60079-11:2006
EN 60079-0:2009
EN 60079-11:2007
ANSI/ISA 12.12.01
CAN/CSA E60079-0
CAN/CSA E60079-11

It is classified as follows:

for the USA and Canada UL:

Class I, Div. 2, Groups A, BC, D,
Class I, Zone 1, Ex ib IIC T4

for Europe: I M2/II 2G, Ex ib I Mb/Ex ib IIC T4 Gb

for Australia: Ex ib IIC T4 Gb

Flame test according to EN137:2006

ORDERING INFORMATION

Dräger UCF® 9000

Dräger UCF® 9000 (50 Hz)	83 21 240
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Includes

Thermal imaging camera with integrated laser pointer, "snapshot function", 2× and 4× digital zoom, 8 additional application modes in addition to the standard mode ("application switch") including ThermalScan function (also real image) and image and sound storage as well as direct display function, 1 battery and 1 charger. Also includes USB cable (camera standard: USB 2.0 interface), detachable crawling plate, PC-software, Instructions for Use and brief instruction.

Accessories

Transport case	83 21 099
Neck strap	83 23 031
Retractable lanyard	83 23 032
Hand support loop	83 23 033
Lithium-ion battery (with Ex-approval)	83 23 075
Battery charger	83 21 247
Power supply for charger	83 16 994
Truck charging kit (bracket and 12–30 V-cable)	83 21 110
Suction tripod, e.g. to mount on truck roof	83 23 070
Tripod	83 21 254
Universal clamp	83 21 259
12 V-adapter for operations with tripod	In preparation
12 V-power supply for operations with tripod	83 16 994

UCF® is a trademark of Dräger.

D-10633-2011



Transport case

D-13064-2010



Battery charger



UCF® 9000 NFPA

CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany

www.draeger.com

Manufacturer:

Dräger Safety AG & Co. KGaA
Revalstraße 1
23560 Lübeck, Germany

Locate your Regional Sales
Representative at:
www.draeger.com/contact



CANADA

Draeger Safety Canada Ltd.
2425 Skymark Avenue, Unit 1
Mississauga, Ontario, L4W 4Y6
Tel +1 905 212 6600
Toll-free +1 877 Dräger 1
(+1 877 372 4371)
Fax +1 877 651 0902
Toll-free Fax +1 800 329 8823

MEXICO

Draeger Safety S.A. de C.V.
German Centre
Av. Santa Fe, 170 5-4-14
Col. Lomas de Santa Fe
01210 México D.F.
Tel +52 55 52 61 4000
Fax +52 55 52 61 4132

Customer Service
Tel 800 723 3891

REGION CENTRAL AND SOUTH AMERICA

Dräger Panama Comercial
S. de R.L.
Complejo Business Park
V tower, 10th floor, Panama City
Tel +507 377-9100
Fax +507 377-9130
contactcsa@draeger.com

USA

Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275
Tel +1 412 787 8383
Fax +1 412 787 2207

Customer Service
Tel 800 858 1737
Fax 800 922 5519

Technical Service
Tel 888 794 3806
Fax 888 794 3807