

Dräger UCF® 7000 Thermal Imaging Camera Three additional operating modes

Today, any call could potentially bring you into a hazardous area. The Dräger UCF® 7000 thermal imaging camera is intrinsically safe, NFPA 1801-2013 certified, and offers new levels of security and reliability in potentially hazardous settings. Technologically advanced yet easy to use with one hand, the UCF® 7000 provides accurate and clear imaging in any situation.



- 160 × 120 pixel resolution and 2× zoom provide a detailed view of the situation
- UL Class 1 Division 2 design is intrinsically safe
- 3 application-specific modes let you optimize the display for firefighting, search and rescue, and hotspot identification
- 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

KNOW BEFORE YOU GO

The Dräger UCF 7000 thermal imaging camera is intrinsically safe and provides peace of mind and an increased ability to focus on the mission. The UCF 7000 provides high image quality, improved ergonomics, and other benefits in emergency response situations. The result is a high performance thermal imaging camera that is rugged, innovative, and easy to use.

The UCF 7000 provides valuable information about rapidly changing conditions when fire, smoke and darkness create a challenging and dangerous environment. The UCF 7000 can help you

navigate difficult areas, locate people and hotspots, and protect your personal safety.

MADE FOR PROFESSIONALS

The Dräger UCF 7000 sets new standards in safety, reliability, ease of use, and operational support in demanding emergency settings. The device is equipped with innovative features designed to meet the needs of today's emergency responders. The UCF 7000 is easy to use and delivers excellent image quality with application-specific displays designed to enhance image clarity and facilitate fast assessment.



D-16641-2014

Dräger UCF® 7000 NFPA-certified thermal imaging camera

DRÄGER UCF 7000



COMFORTABLE ONE-HAND OPERATION

The compact and well-balanced UCF 7000 weighs only 2.9 lbs, making it easy to operate with just one hand. As a result, you'll always have your other hand free. The intuitive operation makes it possible to use the camera's functionality to the fullest extent in highly stressful situations. A sturdy detachable crawling plate allows you to put your weight on the camera while crawling. The UCF 7000 offers various carrying options for optimal comfort and portability.

BETTER OVERVIEW, MORE DETAILS

The Dräger UCF 7000 provides excellent image quality in settings where visibility is extremely limited. The resolution of 160 × 120 pixels and 2× zoom provide

detailed images in any setting, allowing you to search rooms, hallways, and other areas in the immediate vicinity quickly and safely.

Three application-specific operating modes make it possible to optimize the image display for the specific task at hand, simply by pushing a button. In addition to thermal imaging, these operating modes include:

- Fire (firefighting)
- Persons (search and rescue)
- ThermalScan (highlight a set temperature threshold to search for hotspots during overhaul)

This flexibility gives you the most useful information in any situation.

EXTENDED FUNCTIONALITY

Optimized image processing provides a quick overview in just seconds. The “snapshot” function provides a temporary freeze-frame thermal image which can then be viewed on the display. This feature makes it possible to “see around corners” when your freedom of movement or field of view are limited, enabling you to assess particularly difficult areas quickly and safely.

The integrated laser pointer lets you point out the location of hot spots and other hazards and define the plan of attack to other team members.

The UCF 7000 provides high resolution thermal images, even in the hottest

environments. This makes it possible to detect cooler objects such as people in the vicinity of a fire with the best possible resolution. Integrated video and sound recording capabilities are part of the UCF 7000.

EXTREMELY ROBUST

The UCF 7000 is robust and rugged for extended use in the most hostile environments. With an extremely durable housing, the UCF 7000 is heat-resistant and withstands mechanical stresses with ease. The device has a high protection classification of IP67 and is resistant

to water, dust, and other contaminants typically encountered during emergency response situations. Modern lithium-ion battery technology enables the UCF 7000 to operate for up to four hours, giving you peace of mind during extended operations.

SAFE IN EXPLOSIVE ENVIRONMENTS

An explosive atmosphere is always a concern on calls where there is no fire. In this setting, the equipment must not be a source of ignition. The UCF 7000 is the tool of choice even in this type of situation because it is intrinsically

safe and approved for use in potentially explosive atmospheres including zone 1 according to ATEX.

STANDARD USB INTERFACE

The UCF 7000 has a standard USB 2.0 interface, making it possible to configure the camera and transfer thermal images directly to a PC. Images and video sequences recorded for documentation purposes can also be transferred to a PC.

The UCF 7000 is shipped complete with USB cable, detachable crawling plate, and PC software CD.

TECHNICAL DATA

Dräger UCF® 7000

Dimensions of camera (W × H × D)	4.92 × 11 × 4.33 inches (125 × 280 × 110 mm)
Weight	2.9 lbs (1,335 g) including battery
Display	
Technology	Liquid cristal display (LCD)
Size (diagonal)	3.5 inches (9 cm)
Housing	
Protection cover	Rubber material EPDM
Carrying loops	High-temperature resistant material
Housing material	High-temperature resistant plastic
Protection class	IP66 and IP67
Infrared-specifications	
Type of sensor	a-Si Microbolometer Array
Resolution	160 × 120 pixels
IR spectral	7 to 14 µm
Temperature sensitivity	Approximately 0.063°F (0.035°C)
Picture frequency	25 Hz
Optics	
Material	Germanium
Focus	From 3.2808 ft (1 m) to infinity
Field of view	Horizontal: 47° / Vertical: 32° / Diagonal: 62°
Operation	
Operation time (at 73.4°F/23°C) 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)
Battery technology	Rechargeable lithium-ion batteries
Battery Display	Precise 4-level battery indicator
Approvals	NFPA 1801-2013 ATEX ib T4 (Zone 1)

ORDERING INFORMATION**Dräger UCF® 7000**

Dräger UCF® 7000 (25 Hz)	83 21 140
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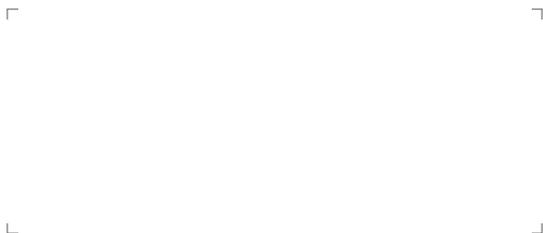
Accessories

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 21 242
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., for mounting on vehicle roof)	83 23 070
Wall mounting	83 23 071
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

Included in scope of delivery

Thermal Imaging Camera with integrated laser pointer, "snapshot function", 2× zoom, 3 additional application modes ("Application switch"), e.g. ThermalScan and video- and sound recording, 1 battery and 1 charger. Add. with USB-cable, detachable crawling plate, PC-software, instructions for use and brief instruction.

UCF® is a trademark of Dräger.

**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 Drager 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