Dräger UCF 7000
New Generation of Thermal Imaging Cameras

Easy to use with one hand only. See more and make better decisions with optimal display options provided by the Dräger UCF 7000 thermal imaging camera. The camera is intrinsically safe (ATEX zone 1) and offers the maximum level of safety and reliability in potentially explosive atmospheres.


D-3966-2010

- USER-FRIENDLY ONE-HAND OPERATION
- EXCELLENT IMAGE QUALITY WITH A RESOLUTION OF 160 X 120 PIXELS
- INTEGRATED LASER POINTER TO SAFELY PINPOINT HAZARDS AND AS AN "EXTENDED INDEX FINGER"
- "SNAPSHOT"-FUNCTION: FREEZE-FRAME OF THE THERMAL IMAGE TO CHECK OUT DIFFICULT TO ACCESS AREAS EASILY AND QUICKLY
- 2X ZOOM
- OPTIMIZED DISPLAY WITH APPLICATION-SPECIFIC OPERATING MODES "APPLICATION SWITCH"
- INTEGRATED VIDEO- AND SOUND RECORDING, RECORDING OF SINGLE IMAGES
- INTRINSICALLY SAFE: APPROVED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES (ZONE 1)


D-7287-2010

MADE FOR PROFESSIONALS

Thermal imaging cameras by Dräger are valuable tools for orientation when fire, smoke, and darkness make navigation difficult. Designed to maintain your orientation to see where you are going as well as for finding persons or hotspots. Whether "indoor fire fighting" or "searching for a person" – various tasks can now be mastered optimally with the help of the new generation of Dräger UCF thermal imaging cameras.

The new development of the Dräger UCF 7000 provides a clear plus when it comes to safety and reliability, ease of use and decision making assistance for demanding firefighting jobs. The camera is equipped with innovative functions to meet and satisfy today's requirements for professional search and rescue and firefighting personnel. And while the Dräger UCF 7000 is very easy to use, it also delivers excellent image quality. Application-specific displays provide more clarity and facilitate assessment of a situation.

EXTREMELY ROBUST

This camera is reliable even in the roughest and toughest environments and with the most demanding applications. Equipped with an almost indestructible housing, the Dräger UCF 7000 is heat-resistant and withstands usage-specific mechanical stresses with ease. Due to their high protection class of IP 66 and IP 67, Dräger UCF 7000 cameras are resistant to typical conditions encountered during an operation such as water and dust.

DRÄGER UCF 7000

Modern lithium-ion battery technology yields operating times of up to four hours and provides users with the peace of mind needed during long runs.

EX PROTECTION FOR SAFETY

An explosive atmosphere may be prevalent especially for calls where there is no fire. This means the equipment used must not be a source of ignition. The Dräger UCF 7000 is the tool of choice even in these types of situations. The device is intrinsically safe and approved for use in potentially explosive atmospheres including zone 1 according to ATEX.

BETTER OVERVIEW, MORE DETAILS

The Dräger UCF 7000 delivers excellent images to firefighters even if visibility is less than optimal. A resolution of 160 x 120 pixels as well as a 2x zoom provide a detailed impression of the situation. When the current image is always right in front of your eyes, rooms and the immediate vicinity are searched quickly and safely.
The risk of overlooking a detail is especially likely and a problem in difficult situations. Thanks to the "application switch" (application-specific operating modes), the Dräger UCF 7000 makes it possible to optimize the image display of the camera for the specific task at hand. For example, the camera's display can be optimized for finding persons or finding sources of fire.

One of three additional operating modes is quickly selected just by pressing a button:
– Fire (firefighting)
– Persons (search and rescue)
– ThermalScan (searching for hotspots)
This additional selection provides firefighters with better insights in any situation.

EXTENDED FUNCTIONALITY

Optimized image processing provides a quicker overview in just seconds. The Dräger UCF 7000 even makes it possible to "see around corners" if the equipment limits the freedom of movement or the field of view. The "snapshot"-function is used to provide a temporary freeze-frame of thermal image, which can then be viewed on the display. This allows personnel to examine and check out even difficult to access areas quickly and safely.

The integrated laser pointer significantly simplifies pointing out the position of hazards – such as hotspots – to other team members and clearly defines the path of attack.

The Dräger UCF 7000 always offers a high temperature resolution – even in hot situations. This makes it possible to detect cooler objects such as people even in the vicinity of a fire with best possible resolution.

Integrated video- and sound recording functions as well as the ability to record single images are part of the Dräger UCF 7000 delivery scope.

COMFORTABLE ONE-HAND OPERATION

Using the Dräger UCF 7000 means one hand is always free: an invaluable plus and added freedom of movement for the user. The compact design and well-balanced low weight of only 1.3 kg make the camera easy to operate with just one hand. The "application switch" (application-specific operating modes) makes it possible to use the camera safely and

to utilize its functionality to the full extent even in highly stressful situations. A very sturdy attachable "crawling plate" permits the user to brace himself or herself on the ground without letting go of the camera. Also offering various carrying options for optimal carrying comfort.

STANDARD USB INTERFACE

The Dräger UCF 7000 is supplied with USB 2.0 interface by default, which makes it possible to configure the camera (e.g. setting an individual start image) and transfer the thermal image directly to a PC. Recorded images and video sequences used for documentation purposes can also be transferred to a PC.

EXTENSIVE RANGE OF ACCESSORIES

The Dräger UCF 7000 is shipped complete with USB cable, attachable "crawling plate", and PC software.

ORDER INFORMATION

Dräger UCF 7000	
Dräger UCF 7000 (25 Hz)	83 21 127

Available from quarter 04/2010

Accessories	
Transport case	83 21 099
Neck strap	83 23 031
Retractable lanyard	83 23 032
Hand support loop	83 23 033
Li-ion battery (with Ex-approval)	83 21 242
Battery charger	83 21 247
Power supply for charger	83 16 994
Alcaline supply unit (incl. cells)	In preparation
Alcaline cells (3 x 2 pcs.)	In preparation
Truck charging kit (bracket and 12-30 V-cable)	In preparation
Suck-Tripod, e.g. to mount 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", 2x zoom, 3 additional application modes ("Application switch"), e.g. ThermalScan and video-and sound recording, 1 battery and 1 charger. Add. with USB-cable, attachable crawling plate, PC-software, instructions for use and brief instruction.

TECHNICAL DATA

Dräger UCF 7000	
Dimensions of camera (B x H x T)	125 x 280 x 110 mm
Weight	1,335 g incl. battery

Display	
Technology	Liquid cristal display (LCD)
Size (diagonal)	9 cm (3.5")

Housing	
Protection cover	Rubber material EPDM
Carrying loops	High-temperature resistant material
Housing material	High-temperature resistant plastic
Protection class	IP 66 and 67

Infrared-specifications	
Type of sensor	a-Si Microbolometer Array
Resolution	160 x 120 Pixel
IR spectral	7 to 14 µm
Temperature sensitivity	< 0,05°C (nominal)
Picture frequency	25 Hz

Optics	
Material	Germanium
Focus	From 1 m to infinity
Field of view	Horizontal: 47° / Vertical: 32° / Diagonal 62°

Operation	
Operation time (at 23°C) with battery	typically 4 hours
Operation time (at 23°C) with alcaline power supply	typically 2 hours
Temperature measurement	Digital temperature display: -40°C ... 1,000°C
Operating temperature	-40°C ... 85°C
Battery technology	Rechargeable li-ion batteries
Battery Display	Precise 4-level battery indicator
Approvals (pending)	NFPA 1801:2010 ATEX ib T4 (Zone 1)

90 46 862 | 0510-1 | Marketing Communications | CR | PR | LE | Printed in Germany | Chlorine-free – environmentally compatible | Subject to modifications |