

Dräger UCF 9000 Thermal imaging camera

Always remain focused: The thermal imaging camera UCF 9000 is thermal imaging and digital camera in one. It ensures you are well equipped even for complex tasks – from fire fighting and hazardous substance operations in Ex zone 1 to the monitoring and documentation of training.



ALWAYS HAVE A HAND FREE

Like all Dräger UCF thermal imaging cameras, the UCF 9000 is a compact design. The holding hand also operates all functions. Buttons and keys are quickly selected with the thumb or index finger. With its robust support the UCF is conveniently at hand even while you are crawling on all fours: Simply support yourself against the ground with the device's crawlplate support.

CRYSTAL CLEAR IMAGES

Even when the visibility is extremely poor, the UCF 9000 will still deliver first-rate image quality and detailed precision. With its 384 x 288 pixels it offers an extremely high resolution and thus provides 44 % more detail than other fire fighting thermal imaging cameras. Its 57° field of view (horizontal) provides you with an extra-large overview of the situation. To bring the scene in even closer, you have the option of using the 4x zoom in addition to the 2x zoom.

FILMING OR PHOTOGRAPHING SCENES WITHIN THERMAL IMAGE OR REAL IMAGE MODE

Unlike the UCF 7000, the UCF 9000 is capable of capturing films and individual photos of not just the displayed thermal images, but also from real digital images. With this option, you can make a live recording of real operations and training situations and evaluate them on the display on site with the play function.

PREPARED FOR INSIDE OPERATIONS: THE UCF BASIC FUNCTIONS

Laser pointer:

use the pointer to mark heat sources or display the fill level of tanks

Snapshot-function:

look around corners and freeze the image to assess the situation

Extended dynamic range:

clearly detect persons and objects even near fires

Quick shutter:

don't miss information because the detector is calibrating itself or when switching to a different operating mode



D-13263-2010



D-13066-2010

UCF 9000 in charging station

DRÄGER UCF 9000



EIGHT ADDITIONAL IMAGE MODES IN ADDITION TO STANDARD MODE –

- Fire (fire fighting)
- Persons (search and rescue)
- Thermal Scan (searching for hotspots)
- Outdoors (searching for persons outside)
- Hazardous Goods (leak detection and level indicators)
- Scan PLUS (searching for heat sources – in real image)
- Normal Image (video camera)
- User-defined 1

CONTINUED RECORDING WITH FULL MEMORY CARD

Should the recording capacity of approx. two hours be exhausted, the black box of the UCF 9000, just like the UCF 7000, guarantees further use of the thermal imaging video. If the memory is full, the camera will simply record over the beginning of the recording. The recording continues automatically.

ADDITIONAL ADVANTAGES:

- intuitive operation: easy and safe handling even under rough conditions
- display brightness adjusts automatically to environment
- easy-to-read status information
- modern lithium ion batteries provide approx. four hours operating time
- automatic stand-by for longer battery life
- different attachment options (e.g. neck strap or retractable lanyard)
- wide range of accessories (e.g. transport case, vehicle installation kit, tripods, etc.)

TECHNICAL DATA

Dräger UCF 9000

Dimensions of camera (W x H x D)	125 x 280 x 110 mm
Weight	1.4 kg (3 lbs) incl. battery
Display	
Technology	Liquid crystal display (LCD)
Size (diagonal)	9 cm (3.5 inches)
Application modes	Standard, Fire, Persons, Thermal Scan, 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	IP 67
Infrared specifications	
Type of sensor	a-Si Microbolometer Array
Resolution	384 x 288 Pixel
IR spectral	7 to 14 µm
Temperature sensitivity	Typically 0.035°C (0.063 °F)
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 23°C) with battery	Typically 4 hours
Operation time (at 23°C) with alkaline power pack	Typically 2 hours
Temperature measurement	Digital temperature display: -40 °C ... 1,000 °C (-40 °F ... 1,832 °F)
Operating temperature	40°C to 85°C (-40 °F ... 185 °F) (inside camera), 150 °C (300 °F) for 20 min, 260 °C (500 °F) for 10 min
Battery technology	Rechargeable lithium ion batteries
Battery status display	Precise 4-level battery indicator
Approvals	<p>The Dräger UCF 9000 meets the following explosion protection regulations:</p> <p>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</p> <p>It is classified as follows: for Europe: I M2 / II 2G, Ex ib I Mb / Ex ib IIC T4 Gb for Australia: Ex ib IIC T4 Gb for the USA and Canada: Class I, Div. 2, Groups A, B, C, D, Class I, Zone 1, Ex ib IIC T4</p> <p>Flame test according to EN137:2006</p>

ORDERING INFORMATION

Dräger UCF 9000

Dräger UCF 9000 (50 Hz)	83 21 225
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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
Li-ion battery (with Ex-approval)	83 23 075
Battery charger	83 21 247
Power supply for charger	83 16 994
Vehicle installation kit (bracket and 12-30 V-cable)	83 21 253
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

Included in scope of delivery

Thermal imaging camera with integrated laser pointer, "snapshot function", 2x and 4x digital zoom, 8 additional application modes in addition to the standard mode ("application switch") including thermal scan 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), attachable crawling plate, PC-software, Instructions for Use and brief instruction.



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