

# Dräger UCF 9000 Thermal Imaging Camera

The Dräger UCF 9000 thermal imaging camera is suitable for all offshore apps. The camera can be used for rescue operations, technical assistance, hazmat operations, monitoring as well as search for hot spots and hidden fire.



## Always have a hand free

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.

## Thermal image or real image mode

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.

## 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

## Eight additional image modes

- 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 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, tri-pods, etc.)

## TECHNICAL SPECIFICATIONS

Dimension of the camera	125 x 280 x 110 mm (w x h x d)
Weight	1.4 kgs incl. battery
Technology display	Liquid crystal display (LCD)
Size display	9 cm
Application modes	Standard, Fire, Persons, Thermal Scan, Outdoors, Hazardous Goods, Scan Plus, Normal Image, User defined 1
Protection cover housing	Rubber material EPDM
Carrying loops housing	High-temperature-resistant material
Housing material	High-temperature-resistant plastic
Protection class	IP67
Infrared type sensor	a-Si Microbolometer Array
Resolution infrared	384 x 288 pixels
IR spectral	7 to 14 um
Temperature sensitivity	Typically 0.035 °C
Picture frequency	50 Hz

Material optics	Germanium
Focus optics	1 m to infinity
Field of view	Horizontal: 57° / Vertical: 41° / Diagonal: 74°
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 to 1,000°C
Operating temperature	40°C to 85°C (inside camera), 150°C for 20 min., 260°C for 10 min.
Battery technology	Rechargeable lithium ion batteries
Battery status display	Precise 4-level battery indicator
Approvals	IEC 60079-0:2007, IEC 60079-11:2006, EN 60079-0:2009, EN 60079-11:2007, EN 60079-11:2007, ANSI/ISA 12.12.01, CAN/CSA E60079-0, CAN/CSA E60079-11, I M2 / II 2G, Ex ib I Mb / Ex ib IIC T4 Gb, Flame test EN137:2006

## Main features for offshore and marine market



1. The camera is ideal for training purposes since it automatically records 1.5 hours of footage when it is turned on. In addition the camera is capable of shooting and storing 1000 pictures and can be used as a normal camera when so required.

2. The camera is an ideal SARS device since as opposed to a torch the camera is able to scan large areas of water in case of an MOB situation. The person in the water will light-up clearly in the much colder water on the camera's display.

3. The camera can be used to easily verify the level of fluids in tanks and barrels.

4. In case of a fire situation the camera is able to detect heat behind closed bulkhead doors. Firefighters, when wearing gloves, often cannot detect such heat when "feeling". By using the camera the firefighter will limit the change of being surprised by sudden flame and heat surges when opening doors.

5. The Dräger UCF9000 is the first and only thermal imaging camera that carries an EX approval.

6. The camera offers a quick check of wiring on board of the rig, due to its high sensitivity the camera easily detects breaks and weak points in wiring and switch boards. This reduces the amount of valuable time spent on inspection of wires in the rig.

7. When in Hazmat mode the camera can be used to detect oil-spills on water, reducing the environmental impact of these spills by earlier discover.