



ST-9663-2006

THE REASONS TO BUY THE NEW DRÄGER UCF® 1600 AND DRÄGER UCF® 3200.

INTRODUCING THE NEW THERMAL IMAGING
CAMERAS MADE BY DRÄGER SAFETY.

Drägersafety

01. Why Dräger?

Dräger has been an innovative leader in personal safety protection equipment for well over 115 years. Today, Dräger is the world's largest manufacturer and most dependable preferred brand of respiratory protection products as well as the largest provider of fire service personnel training systems. To date, over one million Dräger SCBAs have been sold worldwide. Dräger's strong global presence has spanned three different centuries, proving an ever-growing commitment and dedication to supporting the fire service and emergency response services.

Now, Dräger Safety introduces the **Dräger UCF® 1600 and Dräger UCF® 3200 Thermal Imaging Cameras** designed to help firefighters and rescue teams see and quickly locate victims and hot spots in a smoke-filled or low visibility environment. Using the very latest technologies and advanced materials, Dräger's UCF® camera is ergonomically well balanced, providing superior image performance and long operating life.



02. True Ergonomics and Easy Handling.

Dräger UCF® 1600 and Dräger UCF® 3200 Thermal Imaging Cameras are fully ergonomic systems designed to interface with the user. Easy to carry and use in any situation. The camera is well balanced and provides less stress and strain on the user's shoulders, forearm, wrist and hand.

The camera keypad and battery release latch can be easily operated when wearing firefighter gloves. The well-balanced, unique design, along with a low weight of just under **1.3kg/2.9 lbs**, fits very comfortably in the palm of the hand.

In addition to using the camera in the normal vertical position, Dräger UCF® 1600 and Dräger UCF® 3200 cameras are specifically designed for use while crawling, without restrictions – a true firefighter's tool. This feature also reduces overall stress and fatigue, meaning greater comfort and exceptional maneuverability, which enhances a firefighter's personal safety even under the most demanding conditions.



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Dräger UCF® 1600 (160 x 120 pixels)
Dräger UCF® 3200 (320 x 240 pixels)

Shown with optional handle

03. Microbolometer Technology.

Dräger UCF® 1600 and Dräger UCF® 3200 series of Thermal Imaging Cameras uses state-of-the-art MicroIR® VOx bolometer Technology. Providing a high dynamic range for optimal performance, the MicroIR® VOx bolometer creates a crisp and clear image of the scene. The standard setting TempColour features advanced transparent thermal image colouration with up to four colours (blue, red, orange and yellow) highlights the hot and cold areas of the scene. Two fully automatic operating modes, -normal mode and firefighting mode (EI mode)- fulfill firefighter's requirements.

Transparent colour provides greater heat source detail within the seat of the fire. The pixels showing the transparent colour are not oversaturated but contain actual thermal picture information. This provides the firefighter with increased object detail within the heat source providing a true visual hot spot. Dräger UCF® 1600 and Dräger UCF® 3200 are equipped with a 2x digital zoom, as standard. This allows better recognition of details within the thermal scene.



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04. Patented Protected Performance When It Counts. At Any Time.

Dräger's unique internal suspension system (patent pending) uses advanced shock-absorbing materials and design to protect the internal core. Our mission was to engineer and build a Thermal Imaging Camera to meet and exceed firefighting requirements in any environmental

condition. The new Dräger camera was subjected to the NFPA 1981 2002 edition flame engulfment and vibration tests. From there the camera was subjected to the same NFPA standards for drop testing. This meant dropping the camera onto a concrete floor from a height of 7 feet/ 2 meters, three times and ensure it continues to work after each drop. The Dräger camera met and exceeded these testing requirements.

The robust waterproof housing is designed to withstand the rugged conditions faced by firefighters. The outside housing is also heavily protected by silicone bumpers on all sides of the camera. Tough and reliable in-line with Dräger's philosophy of: Technology for Life®.

05. Modular Design.

Answering the call of today's fire departments, Dräger UCF® 1600 and Dräger UCF® 3200 cameras are a totally modular system with three different detachable handle configurations to choose from, providing maximum flexibility for the user. The cameras can be used with or without the handle. The camera body design allows for single-handed operation.

Three handles are also available, all suitable for use when crawling:

- 1) basic handle (No electronics);
- 2) transmitter handle for transmitting thermal images to a remote location;
- 3) image/video capture handle for taking up to 300 still photos or up to 30 minutes of video capture. The handles are quickly and easily interchangeable.



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06. Thermal Scan Technology.

Thermal Scan Technology is a manual adjustment of the colouration of the thermal image that is viewed in the normal mode. By adjusting the colouration you can highlight areas that are above ambient temperature in a yellow colour.

This allows the user to highlight potential warmer hazards and hot spots. Dräger UCF® 1600 and Dräger UCF® 3200 can also be used for other tasks and applications such as preventative maintenance, overhauling procedures, search and rescue missions and “bells and smells” inspections.

Thermal Scan Technology filters out any background noise, allowing the camera to identify lower-temperature hot spots using temperature-related colouration.

07. Smart Battery Technology.

Dräger UCF® 1600 and Dräger UCF® 3200 cameras come with a “true” smart battery technology standard.

Battery capacity is accurately measured by an internal gas gauge with a five-step icon display. The batteries are automatically synchronized to the battery manager, providing the user with true and reliable information about battery capacity and running time of the camera in “real time” throughout the complete lifetime of the battery.

The battery pack management system has the capability to learn true charge capacity of its cells throughout the battery pack’s life cycle. It has a four-hour working duration utilizing state-of-the-art lithium-ion technology, no memory effect and is reliable at low and high temperatures. Lightweight, small and robust, the battery pack can be recharged at any time, no need to cycle the battery.



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08. Custom Display Options.

In addition to the standard colour palette TempColour Dräger offers six different colour palettes for customization in normal mode to suit the user's requirements: three false colour palettes (autumn, black-yellow, yellow), pure gray scale, with seat of fire colouration to highlight the actual seat of the fire, and gray scale (black hot) inverted customization. Fire departments can choose optimal colouration for their application in the non-EI (Electronic Iris) firefighting mode. The Dräger camera automatically defaults to factory settings in the EI mode, no matter what colour palette is being used.

09. Transmitting Capabilities.

Wireless technology transmits pictures from Dräger UCF® 1600 and Dräger UCF® 3200 cameras to an outside remote receiver station. The integrated transmitter is housed within a unique detachable crawling handle. This feature allows an outside team to view the mission remotely, with a quick cable-free plug and play installation.

Several receiver stations with and without a monitor are available. The new compact hand-held receiver fits in the palm of your hand and can easily be carried in a bunker coat pocket.

10. A Dräger Warranty We Stand By.

Dräger has stood for quality and has been a major influence in North America and the world for occupational safety equipment for our customers. Dräger Safety provides a comprehensive warranty for Dräger UCF® 1600 and Dräger UCF® 3200 cameras. Our standard Dräger UCF® 1600 and Dräger UCF® 3200 cameras warranty is for two years.

An additional one or two-year warranty is available upon request. Our goal with the new Dräger Thermal Imaging Camera is to be number one in our customers' eyes by demonstrating our strong commitment and dedication in supporting the fire service and emergency response industries with Technology for Life®.

- True ergonomics and easy handling.
Easy to carry and use in any situation or incident.
- MicrolR® VOx Bolometer technology.
Superior picture quality.
- Extremely robust.
Waterproof, patented, shock- and heat-resistant.
- Modular design.
Three different detachable handle configurations for basic use, image capturing and video transmission purposes.
- Thermal Scan Technology.
Manual adjustment of the thermal image colouration.
- Different colour palettes.
Six different colour palettes for IR picture customization.
- SmartCell battery pack with advanced Lithium Cell technology.
Accurate digital capacity measurement.
- Extended warranty.
Two years' warranty and an additional one- or two-year warranty available upon request.

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