

Dräger UCF 1600  
 Dräger UCF 3200  
 Thermal Imaging  
 Camera



ST-9609-2006

The Dräger UCF 1600/3200 thermal imaging camera is suitable for use in the harshest of operating environments. Designed and built by Draeger Safety to Draeger and fire industry specifications. This new thermal imaging camera combines the very latest technology with the tradition of Draeger Safety quality and performance.

The Dräger UCF 1600/3200 camera core is fully protected against heat, water and dust as well as major shocks and inhospitable temperatures. The camera provides clear detailed images in smoke filled fire-fighting environments. The VOx microbolometer camera engine covers a very wide dynamic range for optimal performance.

Distant subjects are brought into closer view, and in greater detail, using a standard digital 2x zoom. The optional Thermal Scan (TS) technology allows hidden sources of heat to be detected quickly and clearly. A selection of six different color palettes are available to indicate temperatures and optimize the image for various applications.

The Dräger UCF 1600/3200 has three different, optional handles available:

- Basic handle
- Image and video capture handle
- Transmitter handle

These robust ergonomic handles are especially suitable for use when crawling.

The power supply of the Dräger UCF 1600/3200 is a SmartCell lithium ion battery, which provides operational use of up to four hours.

The Dräger UCF 3200 is the more advanced camera with a higher resolution (320 x 240 pixels) resulting in a more detailed image and providing a larger field of view. All other features are to the same standard as for the Dräger UCF 1600.

**Advantages of the Dräger UCF 1600/3200:**

- Small, light & extremely robust.
- Ergonomic design for comfortable handling and optimum operability.
- Micro IR VOx microbolometer technology for unique image coloration and quality.
- Two transparent color (TC) operating modes for high and low temperature ranges.
- Flexible UCF-color ranges for an optimum display of the thermal images.
- Direct temperature detection in Fahrenheit and Celsius by aiming at an object
- Thermal Scan function (TS) complete with adjustable coloration of the thermal image.
- Unique smart battery management system with a battery service life of up to 4 hours.
- Charging unit for the direct and simultaneous charging of the camera and a replacement battery.
- Tripod connection point integrated into the housing.
- Lightest weight and ergonomically balanced camera

Dräger UCF 1600/3200 – another quality product of Draeger Safety.



ST-1357-2007

**Dräger UCF 1600** – the lightest, compact most innovative microbolometer camera!

## TECHNICAL SPECIFICATIONS DRÄGER UCF 1600/3200

### Weight

Camera without battery	2.3 lbs (approx. 1.0 kg)
Battery	0.5 lbs (250 g)

### Dimensions (WxHxL)

Camera	5.6 x 5.5 x 7.0 inches (14 x 14 x 18 cm)
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### Display

Technology	Liquid Crystal Display (LCD)
Size (diagonal)	3.5 inches (9 cm)
Color Display (Temp Color)	Yellow, Orange, Red and Blue
Video standard	NTSC or PAL

### Housing

Rubber boot material	Silicone Rubber
Side strap material	Kevlar
Shell material	High temperature plastic
Water resistance	IP67

### Infrared properties

Sensor type	Uncooled VOx, microbolometer
Resolution	Dräger UCF 1600: 160 x 120 pixels Dräger UCF 3200: 320 x 240 pixels
Spectral response	7 – 14 µm
Sensitivity	Dräger UCF 1600: < 0.05 K (nominal) Dräger UCF 3200: < 0.1 K (nominal)
Frame rate	60Hz

### Lens

Material	Germanium
Focus	Automatic, from 1m to infinity
Field of view	Dräger UCF 1600: 44° Dräger UCF 3200: 54°

### Electrical properties and operation

Operation time at 74 °F (23 °C)	4 hours
Temperature measurement	Digital display of temperature: -40 °F ... 1095 °F
Operating temperature	-40 °F ... 662 °F
Battery technology	Rechargeable, Li Ion
Heat test	NFPA 1981 2007 Edition
Vibration Test	NFPA 1981 2007 edition
Drop test	7 feet onto concrete
Battery indicator	5 smart segment power indicator

### ORDER INFORMATION

Standard Res Camera, UCF 1600(NTSC) (with Thermal Scan)	40 57 985
Standard Res Camera, UCF 1600(NTSC)	40 58 035
Standard Res Camera, UCF 3200(NTSC) (with Thermal Scan)	40 57 990
Standard Res Camera, UCF 3200(NTSC)	40 58 040

The Camera is supplied, as standard, with one battery, one battery charger, instructions for use and contained within a pelican case.

### SUBSIDIARIES

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