

Dräger UCF 1600
 Dräger UCF 3200
 Thermal Imaging
 Camera



ST-9609-2006



ST-1357-2007

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

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.

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) |
|--------|--|

Display

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|----------------------------|------------------------------|
| 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

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|----------------------|--------------------------|
| 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

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|---|-----------|
| 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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