

Dräger UCF® 1600 Dräger UCF® 3200 Thermal Imaging Cameras



ST-9609-2006

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

The Dräger UCF® 1600 and Dräger UCF® 3200 camera cores are fully protected against heat, water and dust as well as major shocks and inhospitable temperatures. The camera provides clear detailed images in smoke filled firefighting environments. The MicroIR® VOx bolometer camera engine covers a very wide dynamic range for optimum 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 colour palettes is available to indicate temperatures is available to optimize the image for various applications.

The Dräger UCF® 1600 and Dräger UCF® 3200 have 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 and Dräger UCF® 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 and Dräger UCF® 3200:

- Small, light and extremely robust.
- Ergonomic design for comfortable handling and optimum operability.
- MicroIR® VOx bolometer technology for unique image colouration and quality.
- Two transparent colour (TC) operating modes for high and low temperature ranges.
- Six Dräger UCF®-colour palettes for an optimum display of the thermal images.
- Direct temperature detection in Fahrenheit or Celsius by aiming at an object.
- Thermal Scan function (TS) to manually highlight areas above ambient temperature.
- Unique smart battery management system with a battery service life of up to 4 hours.
- Truck charger 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



ST-1357-2007

Dräger UCF® 3200 (320 x 240 pixels)
Dräger UCF® 1600 (160 x 120 pixels):
The lightest, compact most innovative microbolometer camera.

Dräger UCF® 1600 and Dräger UCF® 3200
- two new quality products of Dräger Safety.

TECHNICAL SPECIFICATIONS DRÄGER UCF® 1600 AND DRÄGER UCF® 3200

Weight

Camera with battery / Spare Battery 1.3 kg (approx. 2.9 lbs) / 230 g (0.5 lbs)

Dimensions (WxHxL)

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

Display

Technology Liquid Crystal Display (LCD)

Size (diagonal) 9 cm (3.5 inches)

Colour Display (TempColour) 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 and dust resistance IP67 (ratings for dust and water)

Infrared properties

Sensor type Uncooled MicroIR® VOx bolometer

Resolution Dräger UCF® 1600: 160 x 120 pixels / Dräger UCF® 3200: 320 x 240 pixels

Spectral response 7 – 14 µm

Sensitivity Dräger UCF® 1600 and Dräger UCF® 3200: < 0.05 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 23 °C (74 °F) 4 hours

Temperature measurement Digital display of temperature: -40 °C (-40 °F) ... 590 °C (1095 °F)

Operating temperature -40 °C (-40 °F) ... 80 °C (176 °F) / 150 °C (300 °F) 17 minutes / 260 °C (500 °F) 9 minutes

Battery technology Rechargeable, Li-Ion

Heat test NFPA 1981 2007 Edition

Vibration Test NFPA 1981 2007 Edition

Drop test 7 feet / 2 meters onto concrete

Battery indicator 5 smart segment power indicator

Approvals FCC, NOM, CE, DOT

ORDER INFORMATION

Standard Res Camera with case and charger, Dräger UCF® 1600 (PAL with Thermal Scan) 40 58 025

Standard Res Camera with case and charger, Dräger UCF® 1600 (PAL) 40 58 045

High Res Camera with case and charger, Dräger UCF® 3200 (PAL with Thermal Scan) 40 58 030

High Res Camera with case and charger, Dräger UCF® 3200 (PAL) 40 58 050

ACCESSORIES

Truck Charger for 12 and 24 Volts 40 57 988

Li-Ion Rechargeable Battery 40 58 118

Shoulder strap 40 58 038

Retractable lanyard 40 57 961

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

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