



# Dräger UCF FireCore Thermal Imaging Camera

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The Dräger UCF FireCore hands-free thermal imaging camera gives you a permanent vision of your immediate surroundings, even under the toughest conditions. That allows you to orientate yourself more quickly and safely, while also improving your situational awareness.

# Dräger UCF FireCore

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## FPS in-mask display (FPS IMD)

### Brightness sensor

For adjusting the displayed image to the brightness of your surroundings

### LED light

Show system status

### On/Off button

For easy and quick operation

### NFC contact point

For pairing the display and camera

### Adjustable optics

For perfect vision with three adjustable levels



### Quick Adapter FPS

For mounting the FPS in-mask display (FPS IMD) in the Dräger FPS 7000 full-face mask

# Benefits

## SAFETY +

### **Rapid assessment of the situation during firefighting**

Especially during firefighting, difficult conditions such as fire, smoke and darkness prevail. The UCF FireCore provides important orientation, helps to quickly assess the situation and thus identify potential hazards.

### **A clear view at all times**

The FPS in-mask display (FPS IMD) is integrated into the Dräger FPS 7000 full-face mask, so you have the thermal image in front of your eyes from the first second and at all times, and thus a permanent view of your surroundings, even under zero visibility conditions. This enables you to complete your mission with greater speed and safety.

### **Work with both hands free**

The UCF FireCore is ergonomically integrated into your PPE, so you do not have to hold the thermal imaging camera in your hand. That means you have both hands free to focus on what matters most: saving lives.

## USABILITY

### **High level of flexibility**

No matter whether you are crawling or climbing stairs, you always have a complete overview, because the camera angle is flexibly adjustable. This reduces physical strain, such as neck pain.

### **Thermal imaging camera is easily detachable**

Especially when firefighting you often need to enter areas that are difficult to access. The UCF FireCore makes it easier to manoeuvre, because you can simply detach it to capture a view of what is waiting in hard to reach areas. That gives you even better situational awareness.

### **Ease of use**

The UCF FireCore is very easy to handle and operate. It was designed for maximum usability. The UCF FireCore is paired with the FPS IMD within a few seconds by briefly holding the two components next to each other. This also enables you to quickly hand over the thermal imaging camera to one of your teammates to use.

## SERVICEABILITY

### **Tough and reliable on the job**

You can rely on this durable camera even in the toughest conditions. With an IP67 rating, it is water and dust resistant under typical conditions. The UCF FireCore is powered by lithium-ion batteries for long battery life. The batteries can easily be recharged either in a vehicle or at the fire station. The devices require minimal maintenance.

### **Modular design**

The modular product concept allows for optimal adaptation to your operational tactics and budget. You can decide flexibly, based on your needs, which team member should be equipped with the FPS in-mask display and also the UCF FireCore.

	UCF FireCore + FPS IMD	UCF FireVista
<b>Technical Data</b>		
Resolution	160 x 120 pixels	320 x 240 pixels
Field of view	Horizontal: 57° / Vertical: 43°	Horizontal: 50° / Vertical: 37°
Camera dimensions (w x h x d)	141 x 65 x 60 mm	165 x 140 x 85 mm
Weight (incl. battery)	Dräger UCF FireCore: 300 g Dräger FPS IMD: 135 g	870 g
Thermal sensitivity	50 mK	50 mK
Heat sensitivity	-10 °C to +380 °C	-20 °C to +650 °C
Frame rate	9 Hz	30 Hz
<b>Approvals (pending)</b>		
ATEX-/IECEX approval	✓	x
Protection class IP67	✓	✓
<b>Functions</b>		
Thermal image	✓	✓
Adaptive display brightness	✓	x
Video and photo function (thermal image)	✓	x
<b>Special features</b>		
Integrated into PPE	✓	x
One-hand operation	✓	✓
Hands-free operation	✓	x

# System Components

D-17019-2024



## Dräger PSS AirBoss

The Dräger PSS AirBoss offers best in class ergonomics and is one of the lightest weight breathing apparatus for firefighting. Lessons learned from firefighters around the world as well as latest innovations in technology have led us to design an even safer and cleaner SCBA system that enables you to breathe more easily and for longer.

D-4985-2024



## Dräger FPS 7000

The Dräger FPS 7000 full face mask series is characterised by a high degree of safety and optimum wearing comfort. Thanks to its proven design and the different sizes, it offers a tight and comfortable fit. The combination of the mask shape with the geometry of the visor offers you a large field of vision.

D-2244-2022



## Dräger HPS 7000

The multipurpose Dräger HPS 7000 firefighter's helmet is in a class of its own, thanks to its innovative, sporty and dynamic design, ergonomic fit and components which make it a multifunctional system solution. It provides optimum protection during every operation.

D-0427-2019-pi-tittle



## Dräger HPS SafeGuard

The Dräger HPS SafeGuard is the extremely lightweight universal helmet for fire and rescue services. Its innovative design combines optimal protection with the highest levels of wearing comfort. Its sporty look, light weight and tailor-made accessories make the helmet a real all-rounder for any challenge.

# Accessories

D-4184-2022



## Dräger UCF FireCore TIC charging cradle

The Dräger UCF FireCore TIC charging cradle can be installed both at the fire station and in the vehicle. Up to five charging cradles can be interconnected and powered from one power source.

D-11171-2023



## Dräger FPS IMD charging cradle

The Dräger FPS IMD charging cradle can be installed both at the fire station and in the vehicle. Up to five charging cradles can be interconnected and powered from one power source.

D-4179-2022



## Smart Adapter Dräger HPS 7000

The Smart Adapter HPS 7000 enables quick and easy attachment and removal of the UCF FireCore to the helmet Dräger HPS 7000. The viewing angle of the thermal imaging camera can be adjusted depending on the situation.

D-1000-2024



## Smart Adapter Dräger HPS 7000 HMC

The Smart Adapter HPS 7000 HMC (helm mask combination) enables quick and easy attachment and removal of the UCF FireCore to the helmet Dräger HPS 7000 when using the helmet mask combination mount.

## Accessories

D-3120-2023



### Smart Adapter Dräger HPS SafeGuard

The Smart Adapter HPS SafeGuard enables quick and easy attachment and removal of the UCF FireCore to the helmet Dräger HPS SafeGuard. The viewing angle of the thermal imaging camera can be adjusted depending on the situation.

D-3116-2023



### Smart Adapter Dräger HPS 4500

The Smart Adapter HPS 4500 enables quick and easy attachment and removal of the UCF FireCore to the helmet Dräger HPS 4500. The viewing angle of the thermal imaging camera can be adjusted depending on the situation.

## Related Products

D-1780-2021



### Dräger UCF FireVista

Small, light, robust and can be operated with just one button: The compact thermal imaging camera Dräger UCF FireVista provides excellent picture quality even under the most difficult operating conditions. The camera is ready for immediate use and provides the best possible support on firefighting deployments. Outstanding quality – especially in the price.

# Technical Data

	UCF FireCore thermal imaging camera	FPS in-mask display
<b>Physical properties</b>		
Weight (excl. attachments)	300 g	135 g
Dimensions (w × h × d)	141 x 65 x 60 mm	139 x 70 x 60 mm (display in middle position)
Housing material	PA6/PA66 + GF30	PCABS
<b>Infrared properties</b>		
Resolution (pixels)	160 x 120 pixels	NA
Thermal resolution	50 mK / 0.05 °C	NA
Frame rate	9 Hz	NA
Field of view	Horizontal: 57° / Vertical: 43°	NA
<b>Display specifications</b>		
Resolution	NA	640 x 400 pixels
<b>Operating information</b>		
Temperature measurement	Digital temperature display -10 °C to +380 °C	NA
<b>Operating temperature</b>		
Operating time at high ambient temperatures	For 15 min.: 150°C For 5 min: 260°C	NA
Battery technology	Lithium ion	Lithium ion
Battery life in hours	5 h	10 h
Charging time	max. 4 h	max. 6 h
Standards and tests	IP67 protective class for dust and water resistance (temporary submersion) Drop test: 2 m onto concrete	IP67 protective class for dust and water resistance (temporary submersion)

# Technical Data

## Approvals

ATEX / IECEx	II 3G Ex ic IIC T4 Gc, zone 2	II 1G Ex ia IIC T4 Ga, zone 0
	EN IEC 60079-0	EN/IEC 60079-0
	EN IEC 60079-11	EN/IEC 60079-11
PPE	EN 443	EN 136
Electrical properties	EN 55032	EN 55032
	EN 55035	EN 55035
	EN IEC 61000-6-2	EN IEC 61000-6-2
	EN 301 489-1	EN 301 489-1
	EN 300 328	EN 300 328
	EN 300 330	EN 300 330
	EN 62479	EN 62479
	EN IEC 62368-1	EN IEC 62368-1

# Ordering Information

## Dräger UCF FireCore

Dräger UCF FireCore	3716690
Dräger FPS IMD	3716691

## Accessories

Dräger UCF FireCore TIC charging cradle	3716692
Dräger FPS IMD charging cradle	3716693
Smart Adapter Dräger HPS 7000	3716694
Smart Adapter Dräger HPS 7000 HMC	3732924
Smart Adapter Dräger HPS SafeGuard	3716701
Smart Adapter universal (e.g. Dräger HPS 4500) right	3705513
Smart Adapter universal (e.g. Dräger HPS 4500) left	3716696
Quick Adapter FPS	3716695
Power supply unit (100-240 V)	8316994
Car charging adapter (12-24 V)	8312645
USB cable	3700418
USB Service Dongle	3721359

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