

Dräger UCF® FireCore Thermal Imaging Camera

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.

(*available in 2023)

Dräger UCF® FireCore





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Dräger UCF® FireCore

FPS® in-mask display (FPS® IMD)



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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 coupled 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.

SERVICE

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.

Benefits

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
Technical Data		
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: 290 g Dräger FPS® IMD: 135 g	870 g
Thermal sensitivity	50 mK	50 mK
Heat sensitivity	-10 °C to +450 °C	-20 °C to +650 °C
Frame rate	9 Hz	30 Hz
Approvals (pending)		
ATEX-/IECEX approval	✓	✗
Protection class IP67	✓	✓
Functions		
Thermal image	✓	✓
Adaptive display brightness	✓	✗
Video and photo function (thermal image)	✓	✗
Special features		
Integrated into PPE	✓	✗
One-hand operation	✓	✓
Hands-free operation	✓	✗

System Components

D-0915-2019



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-13666-2010



Dräger FPS® 7000

The Dräger FPS® 7000 full-face mask series ensures high safety and wearing comfort. The modern design offers a large, optimised field of vision, while the availability of different sizes ensures the mask fits comfortably and securely. The full-face mask is available with different connections and wearing systems.

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



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-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-4179-2022

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-4179-2022

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.



D-4183-2022

Quick Adapter FPS®

The Quick Adapter FPS® allows the Dräger FPS® IMD to be quickly and safely inserted into the Dräger FPS® 7000 full-face mask and easily removed again after use.

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-4185-2022

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-4174-2022

USB Service Dongle

Using Dräger PC Link software, the Dräger UCF® FireCore and the Dräger FPS® IMD can be configured.

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.



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Technical Data

	UCF® FireCore thermal imaging camera	FPS® in-mask display
Physical properties		
Weight (excl. attachments)	290 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
Infrared properties		
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
Display specifications		
Resolution	NA	640 x 400 pixels
Operating information		
Temperature measurement	Digital temperature display -10 °C to +450 °C	NA
Operating temperature		
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	4 h	3 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)
Approvals (pending)		
ATEX / IECEx	II 3G Ex ic IIC T4 Gc, zone 2 EN/IEC 60079-0 EN/IEC 60079-11	II 1G Ex ia IIC T4 Ga, zone 0 EN/IEC 60079-0 EN/IEC 60079-11
PPE	EN 443	EN 136
Electrical properties	EN 61000-6-2 IEC/EN 61000-6-3 IEC/EN 62368-1	EN 61000-6-2 IEC/EN 61000-6-3 IEC/EN 62368-1

Ordering Information

Dräger UCF® FireCore

Dräger UCF® FireCore	3716690
Dräger FPS® IMD	3716691

Accessories

Smart Adapter Dräger HPS® 7000	3716694
Smart Adapter Dräger HPS® SafeGuard	3716701
Smart Adapter Dräger HPS® 4500	
Quick Adapter FPS®	3716695
Dräger UCF® FireCore TIC charging cradle	3716692
Dräger FPS® IMD charging cradle	3716693
Power adapter (130-240 V)	3716695
Car charging adapter (12-24 V)	8312645
USB cable	3700418
USB Service Dongle	3721359

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