



Helmet-mounted C1 TIC

Rosenbauer Technical Equipment
Clear sight – hands free.

Integrated thermal imaging camera and lamp on the
HEROS Titan and HEROS H30 firefighting helmet

 **rosenbauer**

Hands free for rescue and extinguishing work.

The first thermal imaging camera mounted directly on the firefighting helmet.

When it comes to rescuing missing or trapped persons, every second counts. With a thermal imaging camera from Rosenbauer, firefighters have optimal visibility even in difficult conditions such as darkness, fog, or smoke. Rosenbauer has developed the C1 so that the camera does not have to be carried during use. The unique helmet-mounted thermal imaging camera is easy to integrate directly into the HEROS Titan and HEROS H30 firefighting helmet. The camera attaches to the helmet easily and without tools and transmits the currently recorded field of vision at eye level on the display.

The great advantage: Emergency crews can see everything and have both hands free at all times for rescuing, protection and extinguishing work. The lamp integrated into the device is a true plus in functionality.

With the combination of thermal imaging camera and lamp directly on the helmet, the C1 thermal imaging camera from Rosenbauer provides firefighters with optimal support in the search for missing persons and the detection of fires and hot spots.



■ The advantages during search and rescue.

Always right on the helmet

The C1 thermal imaging camera is easy to integrate into the HEROS Titan or HEROS H30 firefighting helmet. If it is needed at short notice, the firefighter can simply fold the display in front of the field of view and the camera is ready for use.

Hands free for rescue, protection, and extinguishing work

During an operation, firefighters have their hands full. Paths must be cleared, extinguishing agents introduced, fires controlled, and of course persons rescued. The helmet-mounted C1 thermal imaging camera with its permanent attachment directly on the fire helmet ensures that emergency personnel have their hands free and can focus on their important tasks.

Clear view throughout the operation

If a self-contained breathing apparatus is necessary during an operation, firefighters often work with zero visibility. Even in completely dark, smoky places, the C1 provides a clear view from the first to the last minute. In contrast to handheld cameras, the display of the innovative helmet-mounted thermal imaging camera is located at eye level in the field of vision.



Optimal lighting included

Rosenbauer has integrated a lamp into the helmet-mounted C1 thermal imaging camera for better visibility during operations. Light and vision can be controlled together or separately using one device.

Gain a clear overview

The C1 thermal imaging camera contributes significantly to increased safety for the SCBA crew. Like a third eye on the helmet, it delivers thermal images of the environment. In this way, emergency personnel can quickly and safely survey the scene of the emergency.

Faster in use

The helmet-mounted C1 thermal imaging camera significantly reduces operating and rescue times. Always with you, it saves time in terms of handling and locating the burning object. Since it does not need to be carried, both hands are free to work. The emergency personnel can move faster and are quicker in dealing with victims and bringing fires under control more rapidly.



■ Unique technology for maximum overview.

The innovative helmet-mounted C1 thermal imaging camera is 100 % compatible with the extremely safe HEROS Titan or HEROS H30 firefighting helmet. With many advantages and technical features, it supports firefighters in difficult visibility and ensures more safety and speed in use.

Equipped for any situation:

- High resolution of 384 x 288 pixels
- Display size of 2.5", 4:3 format
- Temperature display from -15 °C (5 °F) to +550 °C (1,022 °F)
- Low weight of 483 g (1.06 lb) (including batteries)
- Integrated helmet lamp with 2 high-performance LEDs with 280 Lumen (in combination or can be used individually)
- Operational duration:
 - Thermal imaging camera: 50 min
 - LED lamp: > 5 h
 - In combination: 40 min
- Operated by two lithium ion rechargeable batteries LiFePo⁴
- Protection class IP 66
- Simple snap-on attachment on the front shield of the helmet



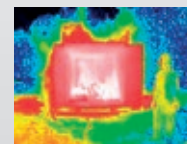
Search mode



White-hot mode



Black-hot mode



Full color mode



Green mode

■ 5 color representations.

- SEARCH mode: colors the relatively hottest zone red
- WHITE HOT mode: standard mode in gray tones, hottest zone colored white
- BLACK HOT mode: standard mode in gray tones, hottest zone colored black
- FULL COLOR mode: utilization of the full color spectrum
- GREEN mode: green tones, hottest zone colored white

See what others cannot see.

Visual control in critical situations.

Thermal imaging cameras from Rosenbauer enable emergency crews to localize people and the seat of the fire even in poor visibility. They help to tackle tasks quicker, more efficiently, and assess situations better. To successfully avoid risks for the emergency crews like flashovers, falls or injuries, Rosenbauer thermal imaging cameras provide better orientation and more safety in general.

In firefighting operations:

- Better orientation on scene
- Rapid detection of fire sources
- Faster locating of hot spots
- Quicker locating of missing persons

During firefighting:

- Clear view in the dark and through thick smoke
- Rapid detection of the seat of the fire
- Faster locating of hidden hot spots
- Immediate recognition of extinguishing success

When rescuing people:

- Better orientation at the scene of the emergency in case of zero visibility
- Rapid locating of persons in search and rescue operations

In hazmat operations:

- Detection of filling heights and chemical reactions in hazmat containers
- Identification of escape points in gas bottles
- Checking temperatures (e.g. in gas bottles)

How do thermal imaging cameras work?

In difficult visual conditions such as darkness, fog, or smoke, a thermal imaging camera may offer a decisive advantage. It converts the heat radiation from people and objects to electrical signals and projects them on the display as a digital thermal image. Thermal imaging shows temperature differences, i.e., relative and not absolute temperatures, whereby a body that is alive can be differentiated from the surrounding area and thus localized. So a missing person can be made visible at night and in fog as the heat radiation of their body stands out clearly in the thermal image from the cold environment. The chance of rescuing missing persons or someone who has had an accident as quickly as possible increases significantly with a thermal imaging camera.



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Helmet-mounted C1 thermal imaging camera order data

41133280	Helmet-mounted C1 thermal imaging camera
41133281	Helmet-mounted C1 thermal imaging camera 9 Hz
41133282	Spare batteries (4 pieces)
41133283	Replacement charger
41133284	Vehicle battery charger



Scope of delivery



41133282



41133283