

blackghost.

You protect us.
Black Ghost protects you.



www.equivital.com

Keeping you safe in challenging environments

Black Ghost offers a lifeline for anyone operating in hazardous working environments. Whether you're a soldier in a military training exercise, a firefighter on emergency response or a maintenance worker on an offshore oil rig, safety is critical.

The Equivital LifeMonitor measures heart rate, respiratory rate, body temperature and activity which enables the monitoring of dangers such as heat stress and extreme fatigue. Coupled with the Black Ghost software solution you have core physiological information for your team, to make decisions based on the data.

Key benefits:

- ✓ Health and safety reassurance
- ✓ Improved performance
- ✓ Optimised operational efficiency

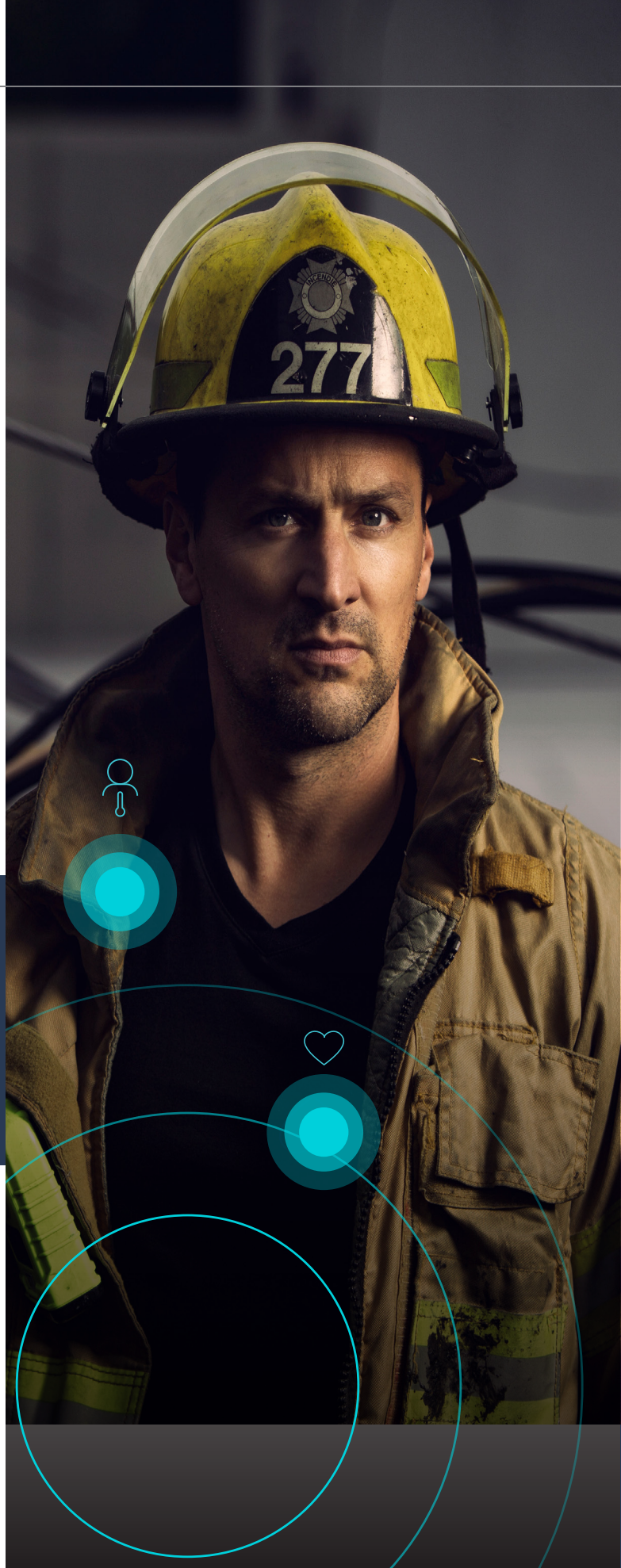
Measurements

- ✓ Heart rate
- ✓ Heart-rate variability
- ✓ Respiratory rate
- ✓ Activity, including fall alert
- ✓ Body temperature

Performance

- ✓ Altitude to 30,000ft
- ✓ Temperature from -10 oC to 50 oC
- ✓ IP67 waterproof rating
- ✓ ATEX, IECEx and ETL approved
- ✓ FDA 510K and CE approved
- ✓ US Army ATEC approved

Make a difference



Black Ghost provides:

- ✓ Heat Strain Index (HSI) which scores current heat risk on a level between 1 and 10.
- ✓ A heat risk warning prediction 15 minutes in advance, as an individual approaches critical levels.
- ✓ Work/rest duty cycle information to assist with operational procedures.
- ✓ GPS location data so that you can pinpoint where your team member is when there is a problem. Exclusion zones can be created, with alerts triggered on entry, exit or proximity.
- ✓ The ability to view vital information by team member and group, offering insights at a granular level.

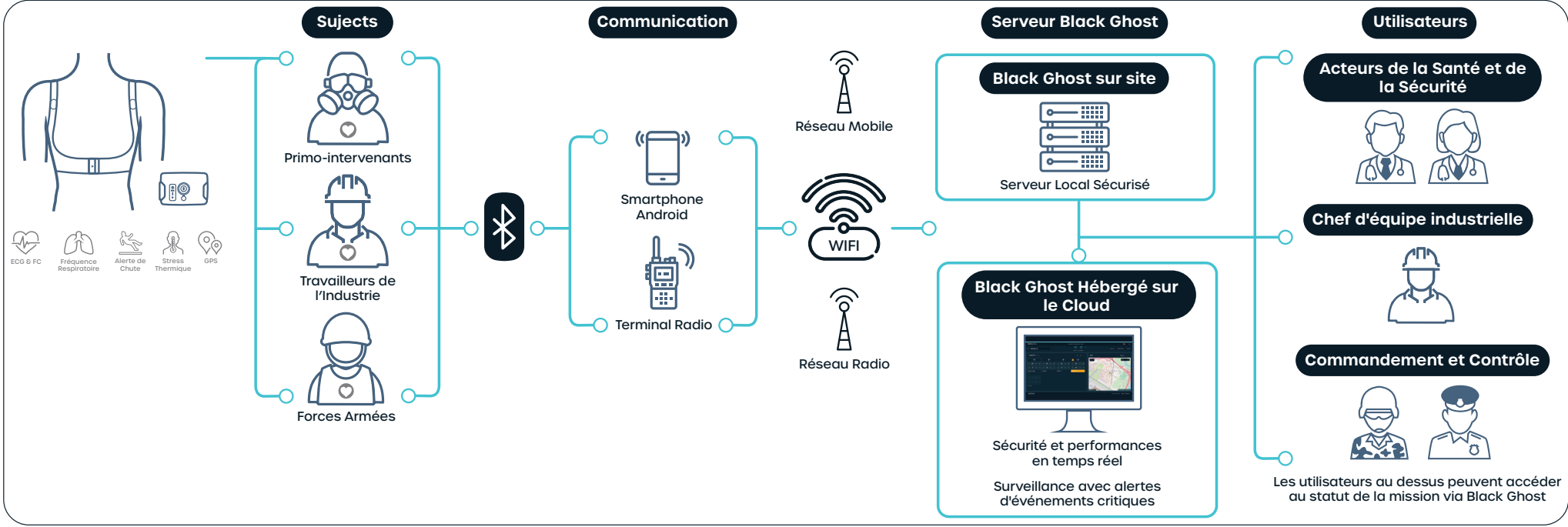
Contextualised data provided by Black Ghost can benefit both training and deployment preparation and execution.

As well as monitoring individuals in real time, the system can be used to review the effectiveness of training schedules – and highlight soldiers who may be at greater risk of heat related injury in the future.

The system can also integrate third-party sensor and website data providing even greater situational awareness.

Heat stress is one of the biggest causes of peace time injury and fatality around the world. The personal protective equipment (PPE) designed to keep you safe can make you more susceptible to heat related injury– but its effect on cognitive function means individuals often fail to recognise the danger signs.

With its unique heat stress algorithm and a user-friendly interface, Black Ghost displays each individual's key physiological data in real time – enabling you to have up-to-the-minute knowledge of the condition of each member of your team. Black Ghost offers a way of preventing your team members becoming statistics – saving the lives of those who risk their own safety every day in the course of their job.



Black Ghost System

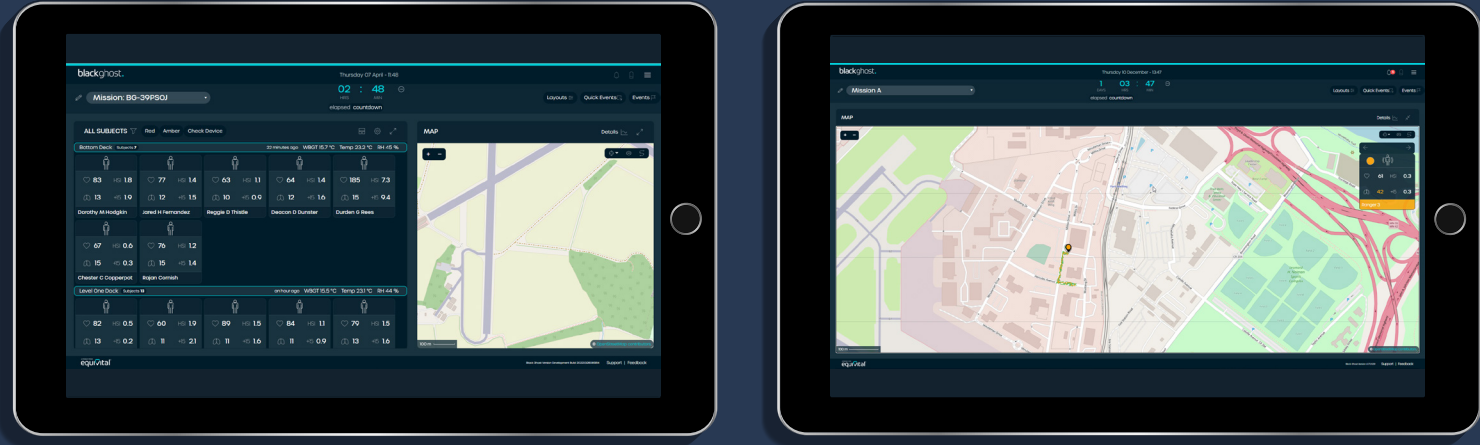
The Black Ghost system provides valuable health and safety data in real time and for after-action review.

The secure Black Ghost software, can be hosted in the cloud or on premise, supports GDPR, NIST and HIPAA compliance and allows rapid deployment.

With local and central options for deployment the system is versatile for any environment. It is as simple as downloading the Black Ghost mobile application and your critical worker is provided with essential safety alerts wherever they are.



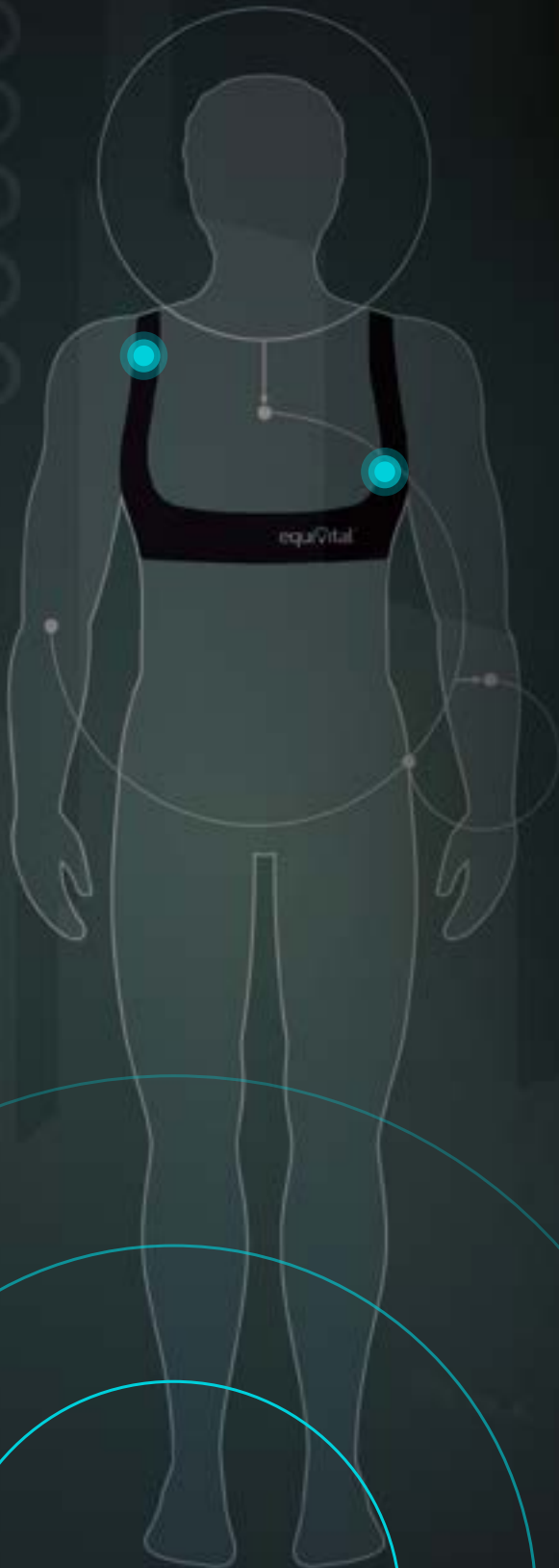
Empower your team and improve safety with the Black Ghost app 'local monitoring mode'



'The Black Ghost system provides real-time actionable information for critical decision making.'

Black Ghost is compatible with android mobile devices, WiFi, TETRA and satellite communications. Custom communications options can be provided if required.

Your sensors. Your data. Your choice.



✓ Scalable protection

Monitor unlimited team members at any one time. Operators can manage the data parameters to tailor them to individual team members offering data specific to each subject .

✓ Physiological monitoring

Depending on the use case, the system can be tailored to capture as much or as little physiological data as required. This ensures both maximum comfort and the optimum cost-benefit balance.

✓ Third Party Sensor Integration

The body-wide network can integrate with third-party devices including radiation dosimeters, noxious gas and environmental sensors to provide greater situational awareness.

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Parameter	eq02+ LifeMonitor Sensor Electronic Module (SEM)	EX eq02+ LifeMonitor (Intrinsically Safe) Sensor Electronic Module (SEM)
		
Size SEM (Overall Dimensions)	78mm x 55mm x 11mm	78mm x 55mm x 11mm
Sensor Electronic Module (SEM) Weight	38g	60g
Sensor Belt Weight	100g	100g
Power	3.7V 300mA Lithium-Polymer rechargeable cell	3.7V 300mA Lithium-Polymer rechargeable cell
Li Polymer Recharge Time	From Flat -1hr	From Flat -150mins
Operating Temperature	-10°C to +50°C	-10°C to +50°C
Storage Temperature	-20°C to +55°C	-20°C to +55°
Operating Humidity & Storage	0% to 95% RH Non-Condensing	0% to 95% RH Non-Condensing
Battery Life	Partial Disclosure – 12 hours (typical when logging in Bluetooth on mode)	Partial Disclosure – 12 hours (typical when logging in Bluetooth on mode)
Battery Life with an external battery pack	38 Hours	N/A
Sensor Belt Duration of Continuous Use	24 Hours	24 Hours
SEM Internal Memory	8GB	8GB
Hazardous Area Classification	Not Applicable	
EU Classification	Class IIb (SEM) Class I (Sensor Belt)	Class IIb (SEM) Class I (Sensor Belt)
FDA Device Classification	Class II	Class II
IP Rating	IPx7	IPx7
Approvals	Part 15	Part 15

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