

blackghost

You protect us. **Black Ghost** protects you.

The Equivital™ Black Ghost system is designed to monitor and assist with the protection of your team within the most challenging and hazardous applications.

Displaying real time heat stress, safety and performance monitoring, Black Ghost provides a critical overview on each and every team member's status.

- ✓ Real time heat stress, safety and performance monitoring
- ✓ Continuous situational awareness
- ✓ Improved safety and welfare

Military



Using Black Ghost for military training provides objective soldier performance data and heightened situational awareness, resulting in positive training outcomes. Black Ghost gives an immediate insight into the performance and welfare of all personnel during a training exercise. When tracked against baseline values, this data can be used to help monitor for heat stress and fatigue, highlight areas that need further development and assign future team roles.

- ✓ Military Training/Deployment
- ✓ Disaster Response
- ✓ Chemical, Biological, Radiological & Nuclear

CBRN



Using Black Ghost within a hazardous working environment, where worker safety is paramount, allows vital safety and performance information to be tracked in real time during a mission or work task. Rapid therapeutic intervention or rescue can be carried out ahead of time ensuring welfare and productivity are managed effectively. Reviewing personnel data allows for evidence based validation of safe working practices.

- ✓ Counter Terror
- ✓ Hazardous Area Emergency First Response
- ✓ Oil & Gas/Mining

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Black Ghost Real Time Monitoring Interface

Black Ghost uses data sent from the Equivital™ LifeMonitor and other sources to present real time heat stress, safety and performance data within easy to navigate user interfaces.



The user can further contextualise live data with event markers relevant to the subject, group, location and/or timeline. Black Ghost is highly configurable, allowing display and reporting of customised intelligence including predictive measures such as heat strain index.

- ✓ Remote viewing of real time physiological data
- ✓ Interactive map for location tracking
- ✓ Customisable alerts including fall alert
- ✓ Track and predict heat injury
- ✓ Customisable analytics and after action review
- ✓ Designed for long term wear
- ✓ Web based or secure local deployment
- ✓ ATEX/Intrinsic safety approvals
- ✓ HIPAA compliant to manage human data

- ✓ Create & mark key events by subjects, groups, location and timeline
- ✓ Data accuracy and automated data confidence alerts/reporting
- ✓ Incorporation of external environmental data (such as weather), 3rd party sensors and algorithms for display of specific outcomes

- ✓ Configurable dashboards
- ✓ Scalable, unlimited subject numbers
- ✓ Secure encrypted data
- ✓ Playback of events for after action review

Equivital LifeMonitor Technical Specifications

Parameter	EQ02 LifeMonitor Sensor Electronic Module (SEM)	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 ~2hr
Operating Temperature:	-10°C to +50°C	-10°C to +40°C
Storage Temperature:	-20°C to +55°C	-20°C to +55°C
Operating Humidity & Storage:	0% to 95% RH Non-Condensing	0% to 95% RH Non-Condensing
Battery Life:	Partial Disclosure – 14 hours (typical when logging in Bluetooth on mode)	Partial Disclosure – 14 hours (typical when logging in Bluetooth on mode)
Battery Life with an external battery pack:	51 Hours	N/A
Sensor Belt Duration of Continuous Use:	24 Hours	24 Hours
SEM Internal Memory:	8GB	8GB
Hazardous Area Classification:	Not Applicable	 ITS13ATEX27919X II 1 G Ex ia IIB T4 Ga  Conforms To UL Std 913 Certified To CSA Std C22.2 No. 157 Class I Div.1, Group C & D, T4 Exia 40051-19
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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