

BLACK SPACE TECHNOLOGY

CLOSING THE CARE GAP

PROVEN IN THE WORLD'S
MOST CHALLENGING
ENVIRONMENTS

HIGH ALTITUDE, LOW TEMPERATURES



EXTREME HEAT, HARSH CLIMATES



RAPID-EPR

ELECTRONIC PATIENT RECORD

- Dual Use Telemedicine Solution
- Configurable Multilingual EPR
- Wireless Wearable Vital Sign Monitoring
- Integrated Videoconferencing
- Agnostic: Hardware | Communication | Data Integration

BENEFITS TO END USER

- Deliver first class healthcare into any environment
- Polyvalent Monitoring - 'Anyone, Anywhere, Anytime'
- Incremental data capture from point-of-injury to Role 4
- Monitor single or multiple casualties
- Reduce morbidity and mortality by pre-emptive care
- Embedded clinical decision support including sepsis and CBRN tools with Early Warning Score

NON-MEDICALLY
TRAINED SOLDIER



COMBAT
MEDIC



MEDICAL
TEAM



POINT OF INJURY

500G

WEARABLE MONITORING PATCHES



TACTICAL FIELD CARE

700G

FULL VITAL SIGN MONITORING



PROLONGED FIELD CARE

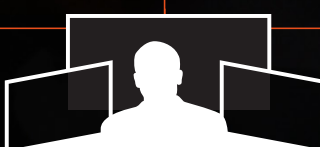
2.6KG

EXTENDED POINT OF CARE MONITORING



Wearable monitors:

Oxygen Saturation (SpO2), Pulse Rate, Blood Pressure, ECG, Respiratory Rate and Core/Skin Temperature



PATIENT EVACUATION COORDINATION CELL (PECC)

MADE IN UK
SOLD TO WORLD
AWARDS 2023

Department for
Business & Trade

HIGHLY
COMMEDED

UK IT
INDUSTRY
AWARDS

Hosted by:
BCS

WINNER

IET
The Institution of
Engineering and Technology
Excellence and Innovation Awards

SILVER

ISO
9001:2015
QUALITY
MANAGEMENT
SYSTEMS

ISO
13485:2016
QUALITY
MANAGEMENT
SYSTEMS
MEDICAL DEVICES

CYBER
ESSENTIALS
PLUS

ARMED FORCES
COVENANT

RTCA
DO-160G

NHS
Standards
exceeded
DATA SECURITY AND PROTECTION

JOSCAR
REGISTERED

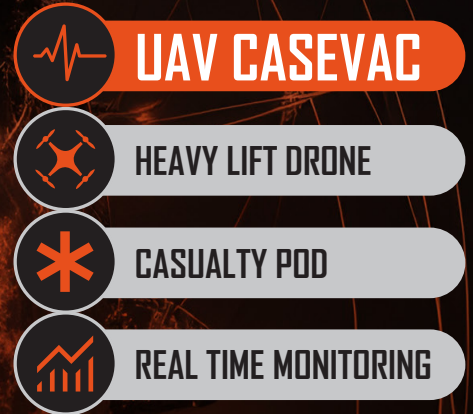
BLACK SPACE TECHNOLOGY

RAPID-ACE

AUTONOMOUS CASUALTY EVACUATION

CAPABILITY SYSTEM DETAILS

The Autonomous Casualty Evacuation (ACE) system has a dual-use cargo / casualty evacuation (CASEVAC) litter that can be attached to a heavy-lift unmanned aerial or land-based vehicles. The litter is equipped with fully autonomous vital sign monitoring system using COTS wearables and digital imagery to monitor and detect deterioration in a casualty during any CASEVAC mission in remote environments.



1

CASEVAC pod is equipped with Rapid-EPR solution and wireless wearable medical devices for capturing vital signs during flight, including streamed imagery of the casualty



2

Vital signs are transmitted in real time via mesh radio, mobile data or satellite in a secure encrypted format from the CASEVAC pod to the medical control centre



3

Medical control centre receives full casualty vital signs, digital images and can monitor the casualty in flight to improve casualty safety and detect any deterioration

BLACK SPACE TECHNOLOGY

RAPID-MCI

Send Digital METHANE

10-Second Triage

Monitor Vital Signs

More...



RAPID-MCI

MASS CASUALTY INCIDENT

ORDER
OUT OF
CHAOS



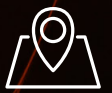
RESPOND
FASTER



LIVE
SITUATIONAL
AWARENESS



DIGITAL
COMMUNICATION



GEOLOCATION
OF CASUALTIES

BENEFITS TO END USER

- Matching casualty demand with hospital capacity in real-time
- Rapid triage of casualties using 'ten second triage' tool
- Interagency data visibility and improved casualty outcomes
- Avoid surge and inappropriate transfer of casualties
- Designed for use by untrained Immediate Responders
- Digital twin simulator for training and scenario planning