

A fully automated, future proof combat telemedicine solution with secure real time data delivery to receiving medical units and high definition 'reach forward' video conferencing



How it works

1

Intuitive, easy to use solution

Combat medics are equipped with a portable 7 inch ruggedized tablet PC loaded with the Safe Triage Combat Telemedicine Unit (CTU) software. The hand held tablet and monitoring system is ultra-light weight and can be carried on a belt system for ease of use.

The system can capture and transmit all vital signs using existing wired or wireless enabled sensors ideally suited for battlefield scenarios. The tablet has a GPS tracking and camera system to aid location tracking and recording of the incident as it evolves. This allows real time updating of casualties allowing more efficient deployment of resources.

R2-4 have a web based portal interface to receive casualty data.

At the incident scene, combat medics collect vital sign data using a range of wireless monitoring peripherals and a simple CTU interface.



2

Data captured includes:

- Mission, casualty and incident data
- Casualty details
- Presenting complaint (including medical history)
- Diagrams/images of the injuries and the site
- Casualty monitored vital signs
- Treatment and medication administered
- Triage sieve status
- 'Nine Liner' status report
- Geo tracking location

The system can handle multiple casualties and facilitate electronic handover of cases at the scene. The fully integrated software solution can be seamlessly scaled up to support Mass Casualty Incidents using the same hardware.

3

Fast data transmission and communication

Data is transmitted 'live' by Tactical Radio or WIFI, GPRS, 3G and satellite in a secure encrypted form to a web server for onward transmission to the R2-4. The system can be integrated into existing Command and Control Systems and Hospital Information Systems.

The Mass Casualty Incident (MCI) function allows rapid triage of multiple patients using the inbuilt Triage Sieve algorithm. R2-4 receives full casualty details, including the vital signs and digital images. Clinicians can then advise on interventions whilst receiving real time information.

In an MCI, the triage status and specialty requirements are transmitted to R2-4 to allow allocation of Medevac assets. This enables better resource management and avoids 'surge capacity' problems.



The comprehensive data store allows a customisable reporting framework to deliver reports as required. It facilitates robust clinical governance, critical incident analysis as well as post incident forensic reconstruction.

4

Secure real-time web information with robust clinical and performance reporting

The comprehensive data store allows a customisable reporting framework to deliver reports as required to support clinical governance and critical incident analysis.

Optional Functions

Video Conferencing: The system can support integrated video consultation with a receiving hospital or medical centre that can support remote specialist emergency advice.

Essential Features & Benefits

Fast, easy and consistent data collection

- Smallest, lightest most flexible device with integrated wireless peripherals (less than 2KG, IP65 air accredited with long life battery)
- Intuitive touchscreen menu speeds input and supports standardised battlefield casualty data collection

Fast connectivity between device and peripherals

- Pre-paired wired or wireless monitoring devices for automatic biometric data capture
- Independent power supplies to avoid single point of failure

Real-time data relay

Supports secure tactical radio and satellite links to R2-4.

- Allows real time assessment and allocation of resources
- Integrates with existing Command and Control
- Captures and relays Geo tagged still images of the incident with GPS tracking capability
- Avoids 'left behind' scenarios in MCIs

Enhanced casualty safety

- Enables fast clinical assessment and vital sign data capture to support improved patient outcomes
- Supports effective monitoring of multiple casualties simultaneously over prolonged periods of time

Integrated image capture and optional video conferencing

- Two built-in cameras for incident and patient injury capture
- Capability to support integrated video conferencing

Enhanced clinical governance

- Embedded clinical guidelines, remote clinical decision support and drug protocol adherence
- Supports adherence to service standard operating procedures and creates standard reports
- Analytics functionality to track outcomes, interventions and performance

Scalable with easy 3rd party integration

- Integrated wireless scanner links to triage card allowing transfer of data and synchronisation
- Scalable to monitor simultaneous MCIs



Core components

- Ruggedized tablet PC with Safe Triage System TCCC application
- Wireless 4/12 Channel ECG
- Wireless Blood Pressure Monitor
- Wireless Pulse Oximeter
Optional
- Wireless Thermometer
- Wireless Lactate Meter
- USB Videolaryngoscope

Core functions

- Real-time vital sign capture and transmission
- Real-time image capture
- Triage sieve algorithm
- Geo tagging and GIS functionality
- Full diagnostic 4/12 channel ECG
- Blood oxygen saturation monitoring
- Blood pressure
Optional
- Video conferencing

