



Bring the Doctor on Board!

From

CACTUS AERO
AEROSPACE SYSTEMS AND SERVICES

The VOYAGER is an easy to use, customizable, tablet based, secure, all-wireless system for consulting a Doctor or other Medical Professional in case of Medical Emergencies while travelling.

Ideal for use on aircraft, ships, yachts, trains, buses and other modes of transport – and even during disaster relief operations. Initial release is based on the Apple iPad Mini 4.

It enables live, two-way Video Calls and transmission of passenger Vital Signs using existing on board WiFi, Cellular, Satellite or Radio links to the internet, providing a means for better diagnoses and care in emergencies.

The VOYAGER system can also be used independently via the built in cellular radio or portable, WiFi capable satellite system, such as the Inmarsat iSathub, for remote areas.

VOYAGER's auto adapting bandwidth capabilities optimizes varying and low signal bandwidths, typical in mobile environments, to provide amazing audio/video from 32 kbps! Full HD and 4K resolutions are possible if there is adequate bandwidth.

The VOYAGER kit was developed in association with major U.S. and International airlines taking into account common medical emergency scenarios. However, the kit can also be used in emergencies at sea and on land.

VOYAGER Standard System Kit

1. Headset, Noise Cancelling (BT)
 2. Wired Headset (back up)
 3. Infrared Thermometer (BT)
 4. Upper Arm Blood Pressure Cuff (BT)
 5. Pulse Oximeter (BT)
 6. Glucose Meter (BT)
 7. Glucose Test Strips
 8. Lancing Device
 9. Storage: Lancets, Control Solution
 10. 12 Lead ECG base unit (BT)
 11. Storage: ECG Cables and Sensors, Charging cables
 12. Back up WiFi Router and Charger
 13. Power Bank for iPad and ECG
 14. Spare AAA Rechargeable Batteries
- iPad Mini & optional ECG Sensor Belt not shown. Case is customizable.

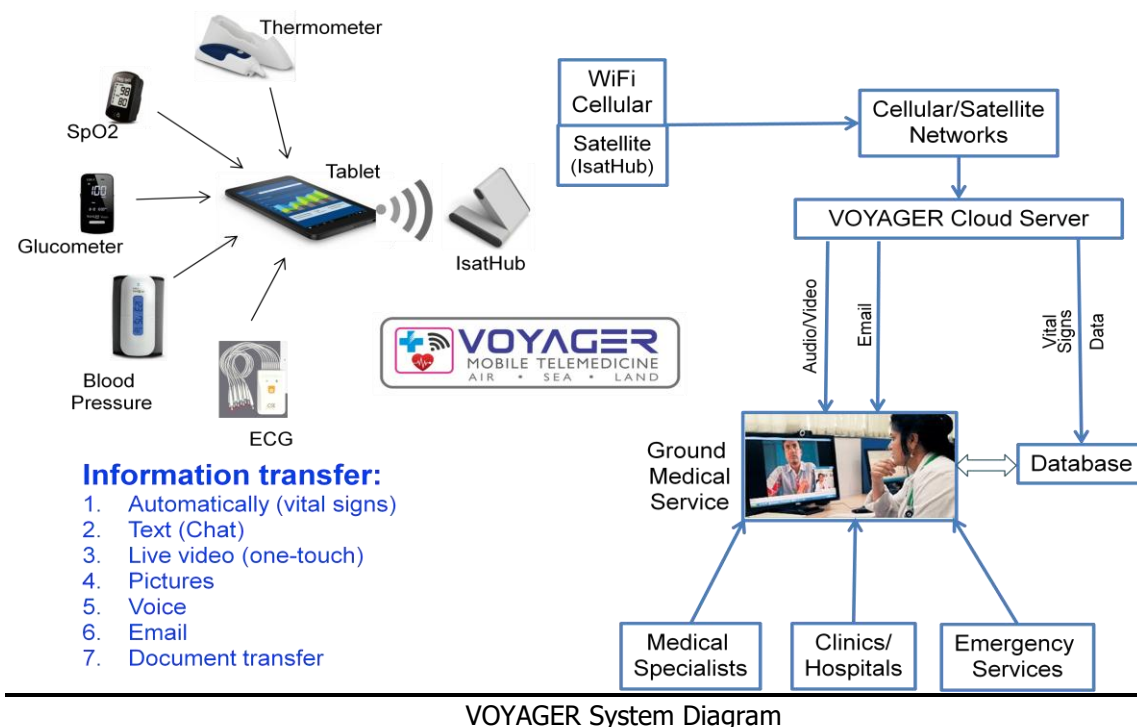


During a Medical Emergency, the emphasis is on contacting a Doctor or Medical Professional for advice as quickly as possible.

VOYAGER accomplishes this by offering a "one-touch" method of audio/video communication and an automatic method of sending Vital Signs information to the Ground Medical Provider. The User Interface is kept as simple as possible whilst still allowing manual input if necessary. It leverages User-familiar devices (e.g. iPad Mini) and technologies (WiFi, Bluetooth and iPad Video cameras).

Vital Signs and medical notes are automatically stored in the local VOYAGER Database for later review, forwarding and analysis (Database can be customized).

Note that the Ground Medical Provider is not part of the VOYAGER system and is selected by the Customer. A list of Providers (not affiliated) is available on request. Any Ground Medical Provider or Doctor can be contacted as long as they have the VOYAGER software and access to the internet.



System Performance (Satellite Test):

Inmarsat Swift Broad Band background channel (B777)

200 to 250 kbps	Excellent audio/video (default screen size) & Chat
100 kbps	Good quality audio/video (clearly legible text via webcam) & Chat
60 to 30 kbps	Good to adequate video, good audio & Chat.
Below 30 kbps	Frozen or no video, good audio & Chat
Below 10 kbps	Good audio & Chat

Features:

Tablet:	Apple iPad Mini 4 with 4G LTE Cellular, 7.9 inch (200 mm) Retina screen, 8 MP primary camera, 1.2MP secondary camera, dual band WiFi with MIMO, Bluetooth 4.2, Assisted GPS, GLONASS
Satellite Unit (optional)	Inmarsat IsatHub or similar
Vital Signs Devices (Bluetooth)	Upper Arm Blood Pressure cuff, Infrared Ear Thermometer, Glucose Meter, Pulse Oximeter, 12-lead ECG
Video Architecture:	Scalable Video Coding (SVC), up to UltraHD 4K resolution
Collaboration:	Video conferencing, Instant Messaging (Chat), Pictures, Document transfer, Email
Security:	AES 256 bit encryption, TLS. HIPPA Compliant
Passenger data file transfer formats:	Text, CSV and Excel formats
Case: (can be customized)	Semi rigid soft case with internal foam
Size:	17" x 12" x 4". (432mm x 305mm x 102mm)
Weight:	8 lb approx. (3.6 kg)

Contact: zaf.mannan@cactusaero.com
 +1 480 330 1888
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