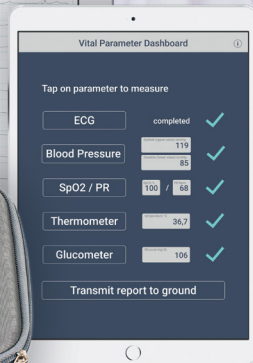


CardioSecur Aviation

Ultralight medical Multi Kit



Made
in
Germany



CardioSecur
Knows Your Heart



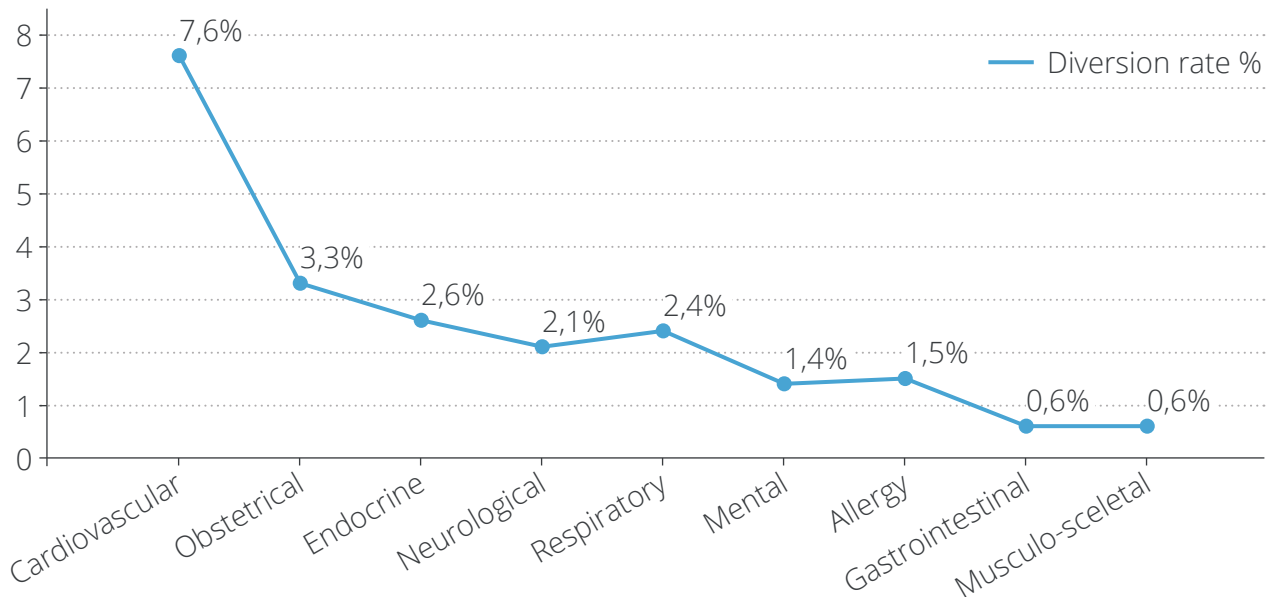
Passenger Safety at Heart

Current trends in Aviation show more elderly passengers flying, 64% of which have pre-existing health conditions. The likelihood of medical emergencies on board is continuously increasing. The most common medical condition leading to flight diversions are cardiovascular diseases. It is important to note that cardiac symptoms are not conclusive of the threat to life. Pilots must decide whether there is a need for diverting a flight or not.

To make an informed decision, pilots require comprehensive in-flight medical data and support from ground-based medical services. Among all sensors available, the 12-lead ECG is considered the most important parameter for evaluating cardiac function and detecting linked pathologies.

CardioSecur Multi Kit is a swift and easy-to-use in-flight medical emergency kit with an ultralight 12-lead ECG generating comprehensive data on the heart's activity. The Multi Kit covers the common medical conditions, allowing pilots and medical professionals to respond quickly and effectively to health-related issues arising during a flight.

Cardiovascular symptoms are the primary cause for flight diversions



Source: MedAire, Aviation Health Conference, Paris, 2022

Medical diagnostics at its best

Medical emergencies on board have many faces and may lead to flight diversions. The most common reasons for re-routing a flight are actual or suspected infarctions. Assessing if a cardiovascular event is time sensitive is a challenge wherever it occurs. Lacking extensive data, makes it close to impossible to tell, if a life-threatening condition is present or if a diversion can be prevented. Unnecessary diversions result in disruptions to operations, safety risks for passengers and crew, high costs for airlines and no benefit to patients. Swiftly attaining comprehensive medical data is crucial.

The modular and ultralight CardioSecur Multi Kit comprises easy-to use one-touch sensors from technology leaders covering key vital signs. At the heart of the Multi Kit lies the highly sophisticated and discrete-to-use 12-lead ECG by CardioSecur with only 4 electrodes. It is accompanied by cutting edge sensors assessing blood pressure, oxygen saturation, temperature, and blood glucose levels.



Ultra-light
& app-based



Easy to use
& minimal training

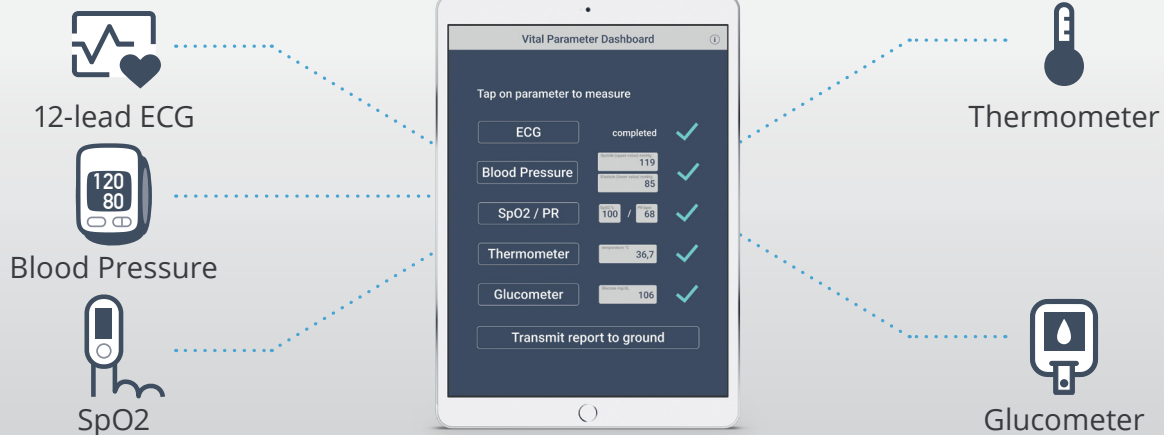


High crew
acceptance



Modular
& customizable

CardioSecur Multi Kit – first in its class



How it works

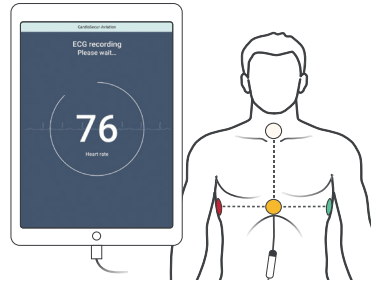
Comprehensive medical data in just a few steps:

1



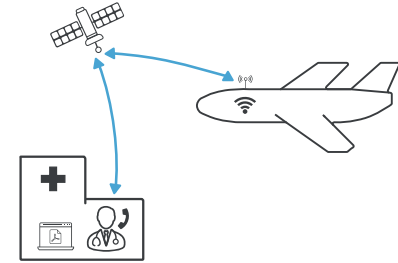
Passenger shows symptoms.

2



Cabin crew generates sensor data with the CardioSecur app.

3



Transmission to ground medical service for feedback.

The medical data can be recorded easily and discreetly by any crew member within a few minutes. The report is automatically transmitted to any designated ground based medical service. Size optimised data sets ensure swift transmission - even in low bandwidth circumstances. Feedback from ground medical service can thereby reach pilots in the shortest possible time.

Benefits of CardioSecur Multi Kit:

- Striking direct fuel cost savings (1kg lighter than any benchmark)
- Minimal crew training (short video) mitigating training cost significantly
- Swift & easy 12-lead ECG (only 4 electrodes)
- High acceptance rate in crews
- Prevention of unnecessary diversions and knock-on effects
- Seamless data integration
- Maximising on equipment synergies (use of crew iPads)
- Live ECG mode in Super-Retina quality for doctors on board
- Comprehensive sensor set with first-in-class reliability

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CardioSecur

Knows Your Heart



CardioSecur is an innovation by Personal MedSystems GmbH
Certified by TÜV SÜD subject to regulation ISO 13485 and 2017/745 MDR



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