Axiamo PADIS is the proven scalable solution for fully automatic and continuous soldier activity monitoring. Get objective insight on soldier's workload to avoid outage and optimize overall performance.

The system application is scalable from small short time performance measurements of several soldiers up to continuous data collection for big amounts of squads. Remote control and visualization of results is possible thanks to the integrated data synchronization with end to end encrypted data transfer.

Each equipped soldier delivers continuous data which is fed in the Axiamo PADIS system for automatic analysis. Axiamo PADIS enables gaining accurate and relevant measures of troops with very little effort for the operator and without distracting the soldiers in their service activities.

Compare each squad's performance score and improve their configuration based on objective and scientifically validated feedback.

axiamo.com/padis
key benefits

- avoid outage due to overloading
- compare different squad’s performance
- optimize squad’s composition
- injury risk identification & mitigation
- measure development over time
- physiological overview

system principle

a) Collection
   Operate registered and equipped squads as usual

b) Feedback
   Get detailed reports on physical soldier performance

c) Adaption
   With measured physical parameters, adapt for optimal load

system components

1. Axiamo PADIS Carrying Case
   Set consisting of 10 complete Soldier’s equipment. All motion sensors can be connected for data transmission and recharging through integrated USB ports. Connect the Carrying Case to mains power and a computer running Axiamo PADIS Software for operation.

2. Axiamo PADIS Software
   Data collection and visualization is performed through the Axiamo PADIS Software running on a laptop or desktop computer. Connecting the Axiamo PADIS Carrying Case is done through two USB Type A connectors.

3. Heart Rate Monitor
   Heart rate can be captured by either an arm or chest worn heart rate monitor. The measured data is automatically read out by the hip motion sensor through Bluetooth Low Energy.

4. Backpack Motion Sensor
   Capturing motion at the backpack enables the PADIS system to detect activities with backpack worn.

5. Hip Motion Sensor
   Both hip and backpack motion sensors capture all activity during the whole measurement period and are worn with a silicone attachment protecting the sensors from splash water and impacts.

axiamo.com/padis
proven wearing comfort

Axiamo PADIS is able to measure physical performance key parameters based on motion sensors attached to the hip and the backpack of a subject. A heart rate monitor of choice (chest or arm worn) is used to determine physical energy expenditure. Wearing the system does not decrease operational capability at all. Various studies prove excellent wearing comfort of PADIS.

product proposal

Axiamo PADIS includes free credits on Kit basis

The Software features an integrated cloud solution for data synchronization and remote control (SSL encrypted transmission)

included per case

<table>
<thead>
<tr>
<th>Case Type</th>
<th>Credits</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Soldier’s case</td>
<td>5’000 h</td>
<td>10’000 trainee hours last for monitoring 100 soldiers for 100 hours.</td>
</tr>
<tr>
<td>10 Soldier’s case</td>
<td>10’000 h</td>
<td></td>
</tr>
</tbody>
</table>

Credits are calculated in units of trainee hours.

Unlimited cloud storage for PADIS measurements is included

5 Soldier’s case

Visualization Dashboard

axiamo.com/padis
Axiamo PADIS is continuously evolving since 2012, where it started as PARTwear PADIS. This system was scientifically validated with hundreds of hours activity data of soldiers (see referenced publications). Developed in cooperation with the Swiss Federal Institute of Sport Magglingen SFISM.

**References**


