OMNIA Walking Test

"When small details make a huge difference..."

One solution for 6MWT, Walking Tests,
OSA Screening and Titration

COSMED
The Metabolic Company

“From functional assessment to overnight evaluation, a complete view of patient oxygenation.”

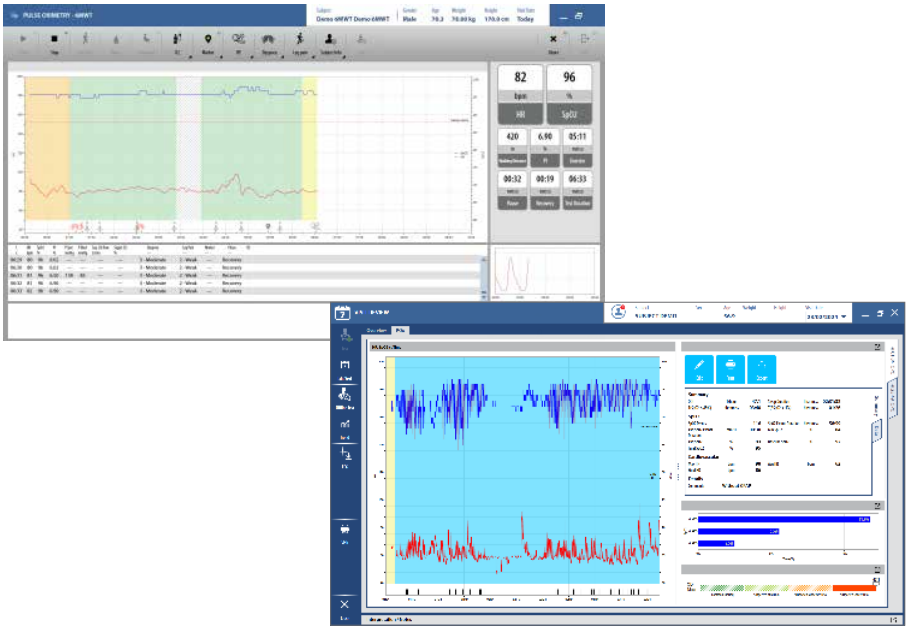
- **Offline and Online modalities**
- **Standard 6MWT, ESWT, ISWT and custom protocols**
- **Overnight Pulse Oximetry with ODI evaluation**
- **Titration test**
- **Plethysmographic pulse oximetry curve in real-time**
- **Perfusion Index for each SpO2 value**
- **Automatic QC**
- **Pace control during shuttle tests via audible signals**
- **ATS standard messages for 6MWT**
- **Several predicted sets**

The Walking Tests/Titration Module expands OMNIA Software capabilities by enabling non-invasive assessment of oxygenation across a wide range of clinical applications.

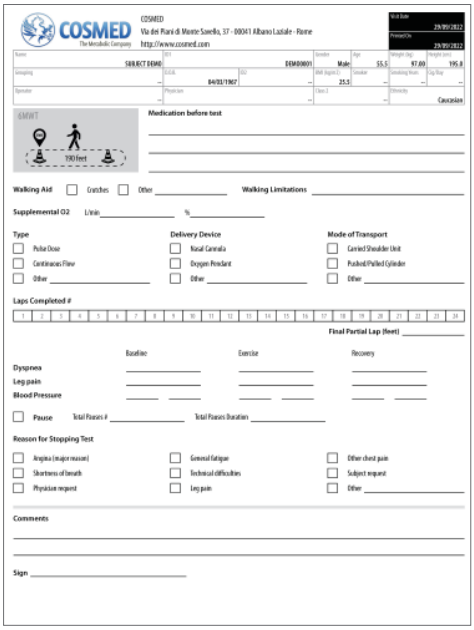
Designed for flexibility in everyday practice, the device is battery-operated and communicates wirelessly via Bluetooth, allowing freedom of movement and easy use in different clinical settings. Simple configuration through OMNIA Software ensures a fast and intuitive setup, adapting seamlessly to specific testing needs.

Supporting both walking test–based functional evaluation and overnight pulse oximetry, the module allows clinicians to assess patients across different physiological conditions and clinical scenarios.

By combining these capabilities, it delivers a versatile and comprehensive approach to cardiopulmonary evaluation.
The system supports clinical decision-making in areas such as exercise tolerance, treatment monitoring, and oxygen therapy management, contributing to a more complete understanding of patient status. Its integrated design ensures efficient workflows, reliable data acquisition, and ease of use, making it an ideal solution for routine clinical practice and research applications.



Online modality monitors SpO_2 and heart rate during the walking test, while overnight data download provides detailed trends during sleep.



Offline modality sheet to take note of the parameters of interest

One tool for many applications

Combining walking tests, oxygen titration, and overnight pulse oximetry in one system, it enables comprehensive oxygenation assessment across different physiological conditions and clinical needs.

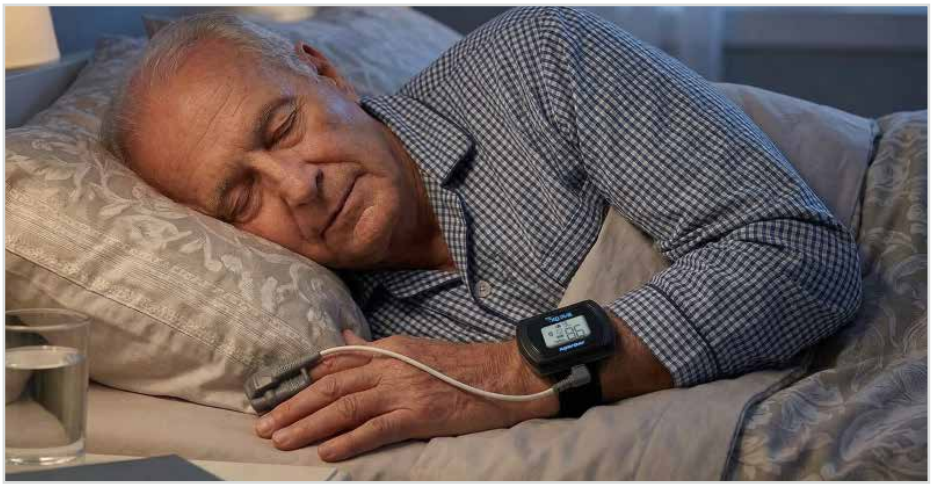
WALKING TESTS

The module enables functional capacity assessment through walking tests, supporting standard protocols such as 6MWT, ESWT, and ISWT, as well as fully customizable protocols. It provides valuable insights into exercise tolerance, prognosis, treatment monitoring, and oxygen titration. SpO_2 and heart rate can be recorded in online mode, offering real-time visualization, event marking, and immediate feedback. Alternatively, in offline mode, OMNIA Software provides a customized guiding sheet to support the operator during test execution, allowing structured note-taking of key events. This ensures that, once the data are downloaded, all relevant information is seamlessly integrated for a more accurate and comprehensive post-test analysis.

OVERNIGHT PULSE OXIMETRY

The overnight pulse oximetry functionality provides a simple, non-invasive solution for the screening of obstructive sleep apnea (OSA) through the evaluation of nocturnal oxygen saturation. Leveraging the Oxygen Desaturation Index (ODI), it delivers clear and clinically meaningful insights into desaturation events during sleep.

Operating in a Holter modality, the device ensures comfortable, uninterrupted overnight recording in offline mode, with data seamlessly downloaded into OMNIA Software for comprehensive and intuitive analysis—supporting efficient clinical decision-making.



TITRATION TEST

The module also supports oxygen titration testing, enabling the evaluation of SpO_2 response across different supplemental oxygen flow levels. This approach helps identify the most appropriate oxygen setting for individual patient needs, supporting therapy optimization and clinical decision-making. Measurements can be performed in online mode for real-time visualization and immediate adjustment of oxygen delivery.

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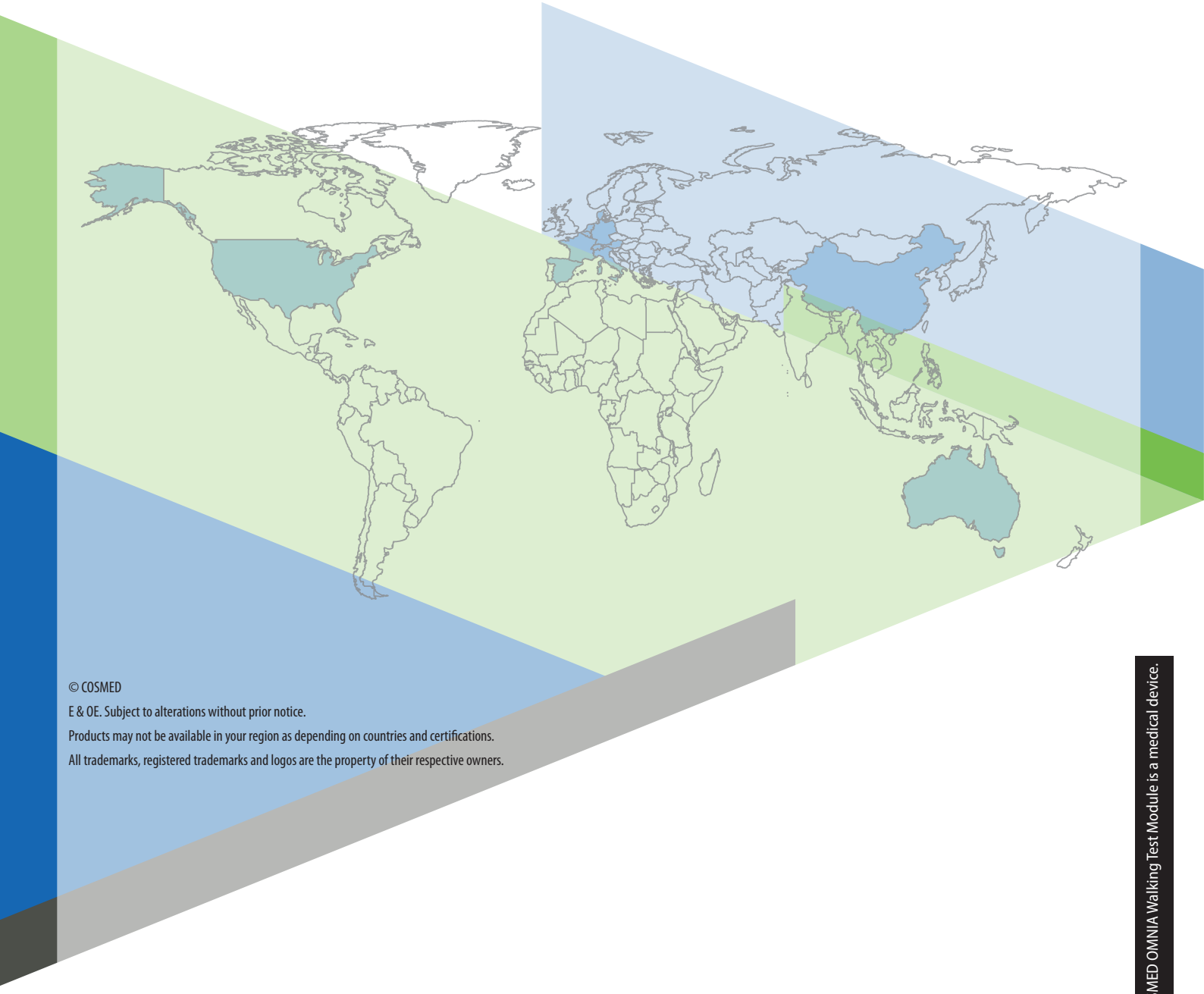

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COSMED OMNIA Walking Test Module is a medical device.

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