DOMINO-AI SLEEP ANALYSIS
ACCURATE. EFFICIENT. AASM-CERTIFIED

Why use Artificial Intelligence (AI) as assistance for sleep scoring?

- Very time consuming manual evaluation of a PSG: approx. 30 minutes
- High interrater variability among qualified raters

AI BASED EVALUATION

- ✓ fast
- ✓ objective
- ✓ reproducible

What can DOMINO-AI offer to assist your sleep scoring?

- More factual evaluation of the measurement, reproducibility of the results
- One-click sleep stage pre-evaluation: time saving (approx. 90 %), in approx. 3 minutes per measurement

Integrated work flow for maximum efficiency

- No need to change your work flow, seamless integration in the familiar DOMINO software, no training required
- AI-supported analysis in the background: The pre-evaluated analysis opens directly in DOMINO for final verification by the evaluator

Your benefits

- Allows technicians to focus on special cases and needs, instead of monotonous scoring
- For the evaluation of a full PSG measurement: Optional assistance for the respiratory analysis in DOMINO (integrated as standard, free of charge) to support the AI-assisted sleep scoring
- Enhance your efficiency - faster evaluation of PSG measurements, faster results. Score a complete PSG accoring to AASM standards in approx. 5 minutes

SOMNOmedics DOMINO-AI

- ✓ **Developed** in collaboration with the Stanford University, USA
- ✓ Further **optimization & validation** by SOMNOmedics with the assistance of highly qualified evaluators
- ✓ Certified by the AASM Autoscoring Certification Pilot Program:

AASM™ AUTOSCORING CERTIFICATION: SLEEP STAGE™

SOMNO medics

Maximum flexibility

Choose between pay-per-use or annual license to perfectly match your needs

Pay-per-Use - Utilization (Only with active internet connection)

Analyze measurement	**Option 1:** DOMINO-AI is set as default	Measurement is automatically pre-evaluated with DOMINO-AI analysis - 1 Token		
	Option 2: DOMINO-AI is not set as default	Measurement is evaluated with standard DOMINO analysis	Activate DOMINO-AI in the measurement settings	Measurement is pre-evaluated with DOMINO-AI analysis - 1 Token

Your benefit:

- Full cost control – you only pay for the analyses you actually use
- Flexible use with measurements from any SOMNOmedics device - without being tied to a serial number Can also be used with imported EDF measurements
- Your patient data remains on your local system; the active internet connection is only used to validate your token usage

Local (annual) license - Utilization (Can be used without active internet connection)

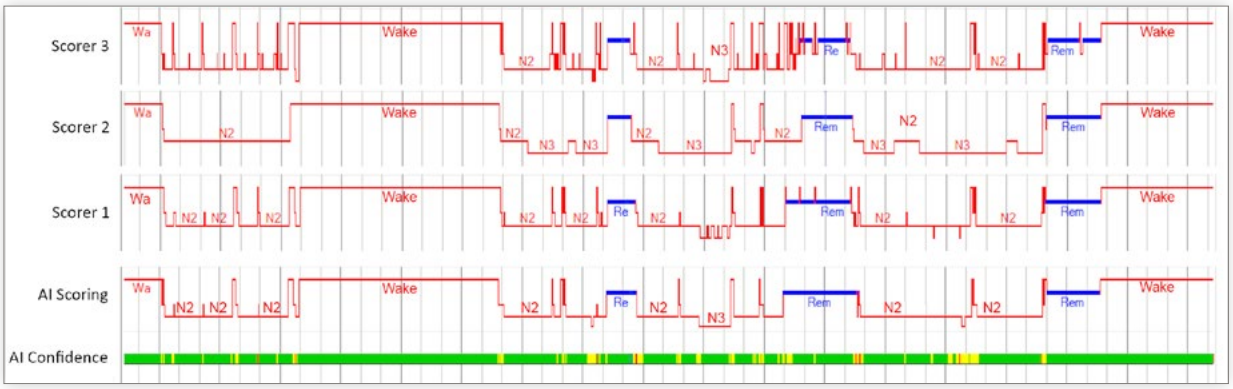
Analyze measurement	**Option 1:** DOMINO-AI is set as default	Measurement is automatically pre-evaluated with DOMINO-AI analysis		
	Option 2: DOMINO-AI is not set as default	Measurement is evaluated with default DOMINO analysis	Activate DOMINO-AI in the measurement settings	Measurement is pre-evaluated with DOMINO-AI analysis

Your benefit:

- Only pay for the devices you want to use with AI analysis
- Financial planning security - clearly transparent annual expenses

DOMINO-AI – high performance and confidence

- The AI's results are comparable to the combined analysis of a consensus of expert scorers
- To strengthen the trust in the AI's scorings, sections are marked with a simple, three-color scale to indicate the AI's certainty level
- Determination of sleep stages for each epoch. High level of agreement between the AI and the individual scorers



Interrater View: Overview on 3 qualified scorers, AI scoring and confidence

- Sensitivity of DOMINO-AI:

W	N1	N2	N3	REM
87.9 %	50,4 %	78,0 %	80,9 %	91,8 %

The DOMINO-AI analysis works exclusively with EXG measurements derived according to the AASM standard.

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