omni 1™

RESPIRATORY COACH

- NO CALIBRATION
- NO QA
- NO HASSLE

EMPOWERING PATIENTS
& OPTIMIZING RESOURCES

omni 1

RESPIRATORY COACH

Omni1 is a compact optical respiratory tracking and coaching system specifically designed for patient education.

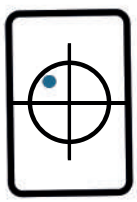
The device is battery powered and mounted to a portable floor stand so it can be used wherever required. Omni1 provides a dedicated platform for breathing practice, with visual feedback that mimics the system used.

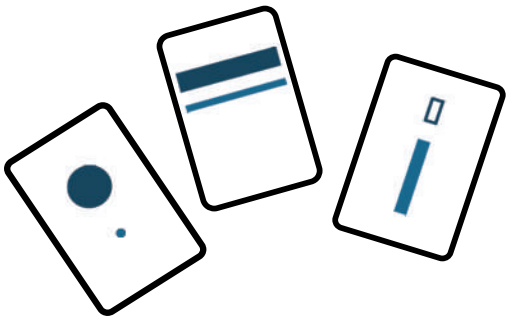
By enabling practice sessions outside of CT and treatment rooms, Omni1 helps to make more efficient use of clinical resources. It allows familiarisation with respiratory techniques in a relaxed, low-pressure setting, which may support confidence and understanding of the techniques before imaging or treatment.

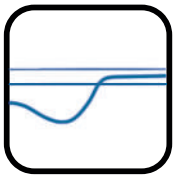
Published research indicates that visual coaching and respiratory training can support consistency and confidence with breathing exercises during radiation therapy (1–6).

In just 3 simple steps

2) SELECT COACHING DISPLAY







1) CHOOSE TRACKING POINT

3) COACH YOUR PATIENT

Specifications

Descriptive Specifications	Specifications
Computer	Rockchip RK3588, 8-core 64-bit processor, 4 x Cortex-A76 (2.4GHz), 4 x Cortex-A55 (1.8GHz) and separate NEON co-processors
Patient coaching screen	13.3" curved OLED 2k
Operator control screen	8" curved OLED 2k
3D Camera frame rate	60 Hz. FOV: ~40cm x 40cm (@40cm distance)
Power Supply	Battery Capacity: 180Wh (nominal). Charge via: USB-C
Physical Dimensions	Size (cm): ~26(D) x 40(W) ×6.6(H), Weight 3.7kg, Mounting: Floor stand (extra)
IT Requirements	None. Standalone device

References

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2. Alan M Kalet, Aileen Kim, Daniel S Hippe, Simon S Lo, L Christine Fang, Juergen Meyer, Ivira V Lang and Nina A Mayr, **The dosimetric benefit of in-advance respiratory training for deep inspiration breath holding is realized during daily treatment in left breast radiotherapy: A comparative retrospective study of serial surface motion tracking,** Journal of Medical Imaging and Radiation Oncology, 65 (2021) 354–364

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4. Nina A. Mayr, MD, Kai J. Borm, MD, Alan M. Kalet, PhD, Landon S. Wootton, PhD, Alexandra L. Chadderdon, Psy D,z Stephanie E. Combs, MD,y Waylene Wang, MD, Ning Cao, PhD, Simon S. Lo, MD, George A. Sandison, PhD, and Juergen Meyer, PhD, **Reducing Cardiac Radiation Dose From Breast Cancer Radiation Therapy With Breath Hold Training and Cognitive Behavioral Therapy,** Top Magn Reson Imaging. 2020 Jun;29(3):135-148.

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These studies are provided for general educational context and do not involve or evaluate the Omni1 system specifically.

Disclaimer: The Omni1 system is intended for educational use only. It is not a medical device and is not intended to diagnose, treat, or prevent any disease. The referenced studies do not evaluate the performance or efficacy of Omni1, and no clinical outcomes should be inferred from its use.

Empowering patients & optimizing resources, all in one compact solution

OPERATOR CONTROL SIDE

PATIENT COACHING SIDE

INTUITIVE INTERFACE

CURVED TOUCH SCREEN

CONFIGURABLE LAG

MIMICS COMMON FEEDBACK DEVICES

HIGH SPEED 3D SENSOR

LARGE CURVED SCREEN

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