



RESPIRATORY COACH



☒ NO CALIBRATION

☒ NO QA

☒ NO HASSLE

EMPOWERING PATIENTS
& OPTIMIZING RESOURCES



RESPIRATORY COACH

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

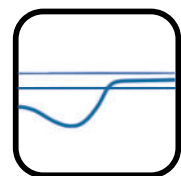
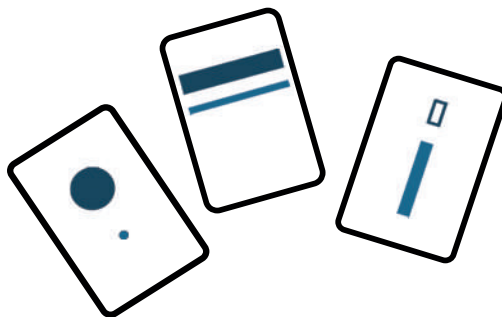
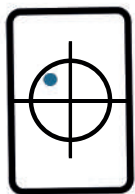
The device is battery powered and mounted to a portable floor stand so it can be used wherever required. Omni1 provides a dedicated platform for breathing practice, with visual feedback that mimics the system used.

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): ~25(D) x 40(W) x6(H), Weight >3kg, Mounting: Floor stand (extra)
IT Requirements	None. Standalone device

References

1. L. I. Cervino, C. Yashar, M. A. Rose, G. White, D. Scanderbeg, S. B. Jiang, **Visual Coaching Based on 3D Surface Imaging for Improvement of the Reproducibility and Stability of Deep-inspiration Breath Hold for Radiation Therapy of Left-breast Cancer Patients**, International Journal of Radiation Oncology, Biology & Physics, Vol 22, No 1, Suppl. 2008

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

3. Edyta Hanczyk, Dawid Piecuch, Szymon Kopcial & Joanna Jonska-Gmyrek, **Factors Affecting the Effectiveness of DIBH (Deep Inspiration Breath Hold) in Patient with Left Breast Cancer: A Narrative Review**, Applied Science, 2024, 14(16) 7287

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.

5. Puntiwat Oonsiri, Metinee Wisetrinthong¹, Manatchanak Chitnok¹, Kitwadee Saksornchai², Sivalee Suriyapee, **An effective patient training for deep inspiration breath hold technique of left-sided breast on computed tomography simulation procedure at King Chulalongkorn Memorial Hospital**, Radiation Oncology Journal, 2019;37(3):201-206

6. VijayR Kini M.D. SubrahmanyaS Vedam M.S. a, PaulJ Keall Ph.D. a, Sumukh Patil B.S. a, Clayton Chen B.A. a, Radhe Mohan Ph.D., **Patient training in respiratory-gated radiotherapy**, Medical Dosimetry, Volume 28, Issue 1, Spring 2003, Pages 7-11

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.

Patent Pending: This product is the subject of one or more pending patent applications. The filing of a patent application does not guarantee that a patent will be granted. Unauthorised reproduction or distribution may be subject to legal action.

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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