



# respisens

Respiration tracking made easy

## nomics

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## Respiration tracking has never been that easy...

**I**N RADIOTHERAPY, targeting a lung or a breast tumor with high precision while it is constantly moving due to respiration is not an easy task. However, it is essential in some cases in order to avoid irradiating a vital organ such as the heart.

**T**HE *respisens* is an innovative device for patient motion tracking during radiotherapy. The system consists of a miniaturized transmitter/receiver that measures a distance on the patient's body. If placed on the thorax or the abdomen, the *respisens* tracks patient breathing and thus helps monitoring and securing breath hold manoeuvres. If placed on a motionless part of a patient, it helps verify his/her immobility. Therefore, the *respisens* is particularly useful to radiotherapists and radiophysicists who want to increase patient safety during irradiation.

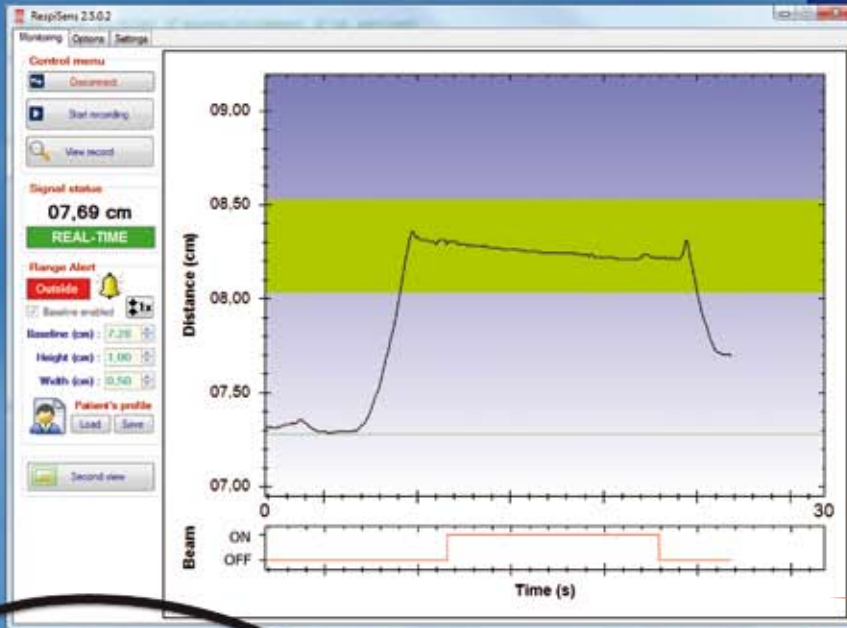
### The clinicians who tried the product highlight its main strengths :

- It is **non invasive**, providing greater comfort to the patient,
- It is extremely **easy** to use and **quick** to install,
- Its accuracy and dependability have been clinically proven,
- It is **affordable to** all radiotherapy centers,
- It is **compatible** with all existing linear accelerators.



## Technical characteristics

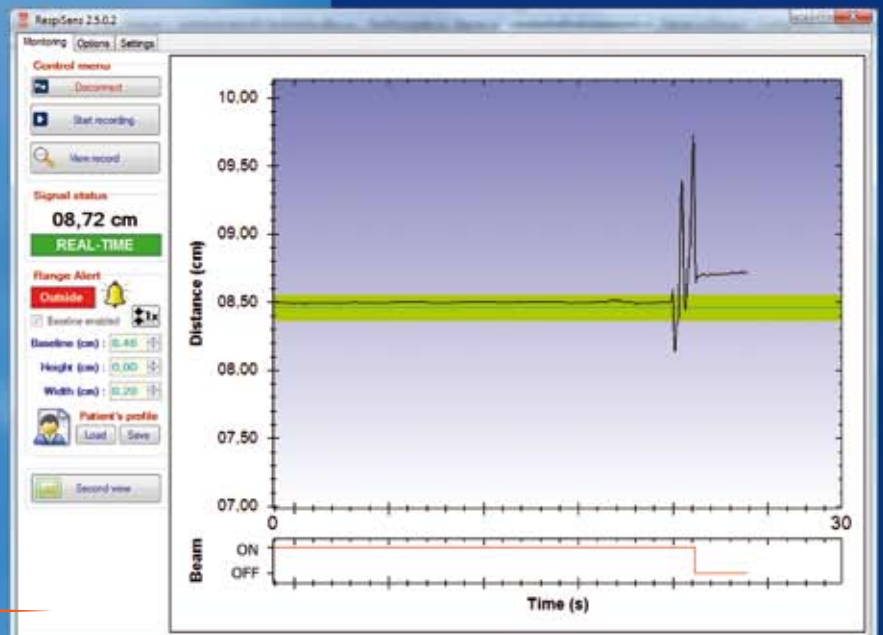
- Highly sensitive magnetic distance sensor – measures small movements down to 0.1mm,
- Real-time interface box with serial connection to PC,
- Extension cord to Respisens module (Customizable length. Standard is 15 meter),
- Audible alarm,
- Mains powered,
- Medical grade isolation,
- User friendly software.



Monitoring inspiration  
breath hold

*respisens*  
Respiration tracking made easy

Detecting patient motion  
with a sensitivity of 0.1 mm



respisens is manufactured by **nomics**, Liège, Belgium. The manufacturer works in accordance with the EN ISO 13485 quality system and has the authority to mark the product with the CE mark. respisens is a trademark of **nomics**