



## CENERGY Go!

Working together for **safe,**  
**accurate & efficient** RT treatments



# Patient Identification & Monitoring

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Reliable patient identification is crucial in radiotherapy. Every radiotherapy patient is different, so treatment can vary enormously in terms of dosage and location on the body. This means that it is essential to correctly identify each patient and ensure they receive the correct treatment. Nowadays the checks are done mostly manually, for instance, checking the patient's date of birth or using a photograph of the patient. These methods are error-sensitive, as these checks are not integrated in the workflow there is no 100% guarantee that the steps are always executed. Together with one of the radiotherapy centers in The Netherlands, Cablon Medical has made a step forward with use of a hand palm scan connected to the R&V system and accelerator.

## Biometric measurement methods

After a lot of research, a special scanner has been chosen to measure the vascular bed. It identifies the patient through the unique hand palm vein profile. The blood vessel pattern is unique to each person and is more accurate than other biometric methods, such as facial recognition and iris scan.<sup>1</sup> The false acceptance rate of a hand palm scan is 100 times lower than a fingerprint scan.<sup>1</sup>

In addition, it works fast<sup>2</sup> and is suitable for all patients, even the ones that need to undergo chemotherapy and whose fingerprint may temporarily disappear. It works in a contactless manner which means that, for example, damp hands or deformation from excessive pressure cause no problems. This is important, as the new identification method will be performed many times a day.

<sup>1</sup> Napua (2011): Growth of Biometric Technology in Self-Service Situations

<sup>2</sup> [https://www.fujitsu.com/global/Images/PalmSecure\\_Datasheet.pdf](https://www.fujitsu.com/global/Images/PalmSecure_Datasheet.pdf)





## How does it work?

### 1. Registration

During the first appointment both hands are scanned and stored as an encrypted code in the system and inseparably connected to the patient.

### 2. Verification

Before every treatment the patient's hand is scanned when the patient is on the treatment table. The patient identification step cannot be omitted, because the accelerator cannot be started until a positive identification has been made.

If a patient cannot use the scanner for whatever reason, a radiation technologist can be nominated to unlock treatment with their own unique palm signature (override). This solution also enables an organisation to maintain immaculate records for compliance purposes.

### 3. Optional Kiosk

CENERGY Go! can be extended with a waiting room module, the kiosk. On every appointment the patient scans his hand at the kiosk. The correct treatment location and the possible delays are displayed on the kiosk. The medical staff receives a message in the console area about the arrival of the patient, which prevents them from unnecessarily checking the waiting room.



## KEY FEATURES:

- Accelerator does not start radiation before a positive match is made
- Fully integrated into the existing workflow of radiotherapy centres
- Optional waiting room module for patient guidance and attendance
- Is fast, non-invasive and high accuracy(FAR <math><0.00008\%</math>)<sup>2</sup>

## BENEFITS:

- Prevents treatment of the wrong patient
- No additional workload
- Enables an organisation to maintain records for compliance purposes
- On-table verification usable for almost every patient to minimize safety risks





CNERGY GO! is part of the CNERGY Solutions.

Klepelhoek 11, 3833 GZ Leusden  
The Netherlands  
+ 31 33 494 39 64  
info@cablon.nl

[cablon.nl](http://cablon.nl)

