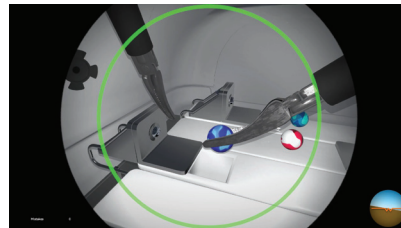
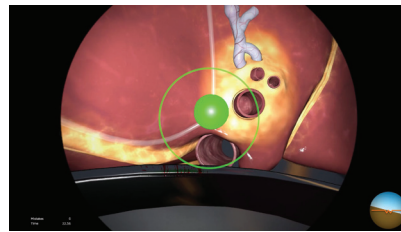


# SIMENDO

certifying skills



Simendo  
camera

product  
information

## Simendo camera



Simendo camera Pro3

The Simendo camera is designed to teach the essential camera skills needed to safely perform laparoscopic surgery. The software contains two curricula with increasing difficulty. The first curriculum is a series of exercises based on the zero-degree camera followed by a second curriculum that teaches to understand and operate a thirty degrees camera curriculum.

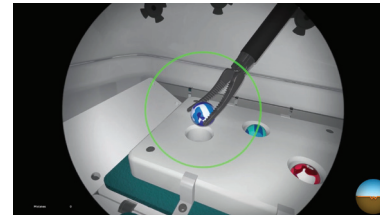
For certification and global competition the camera trainer is connected to our online scoring platform [MySimendo.com](https://mysimendo.com).

- ✓ Plug and play by USB standards.
- ✓ Rotating camera lens and horizon.
- ✓ Zoom and light function.
- ✓ High precision.
- ✓ Portable.
- ✓ Can be combined with the Simendo laparoscopy for team training.

# Zero degree

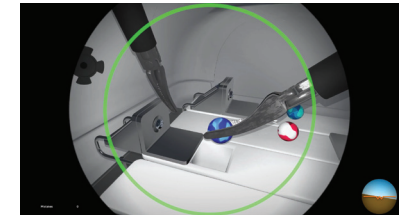
In this curriculum the trainee will learn the basics to safely handle a zero-degree camera. In total there are five exercises with various tasks. In the first two exercises the trainee will learn to follow a moving laparoscopic instrument and keep the horizon steady. In the next exercises the trainee will have to navigate around a liver and gallbladder and keep the right distance to prevent collateral damage.

## Exercise overview



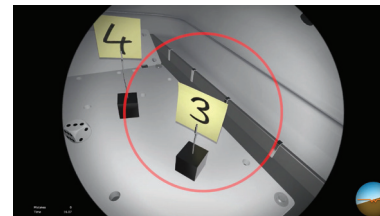
### Pick up & drop

Follow the instrument with the zero degree laparoscope.



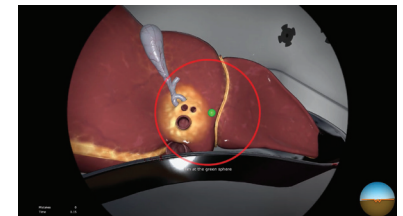
### Slide & drop

Follow both instruments with the zero degree laparoscope.



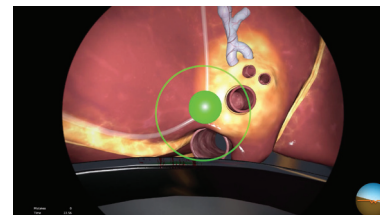
### Dice

Check the dice and find the number on the sticky notes.



### Aim

Navigate to the spheres along the liver and keep the laparoscope steady until they disappear.



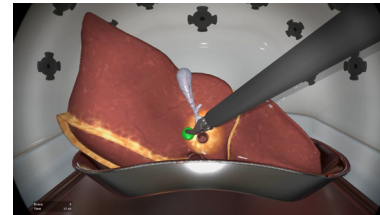
### Trace

Follow the trace of the moving sphere along the liver with the laparoscope.

# Thirty degrees

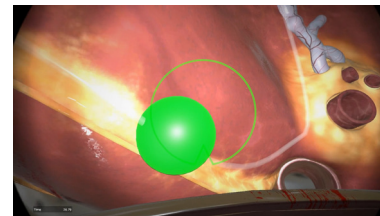
This curriculum is a lot harder than the zero degree curriculum. First the trainee will have to move a laparoscopic instrument to understand the difference between camera and instrument handling. The trainee will learn to navigate with a 30 degrees camera, keep the horizon steady and find various spots at difficult angles. The trainee should also follow the path of a moving object along the liver and gallbladder and being able to detect the difference between a zero and thirty degree camera.

## Exercise overview



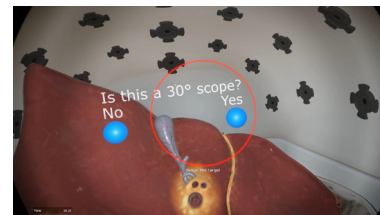
### Touch

Experience the difference between the handling of a laparoscopic instrument and camera.



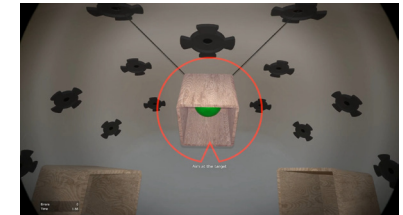
### Trace

Follow the trace of the moving sphere along the liver with the laparoscope.



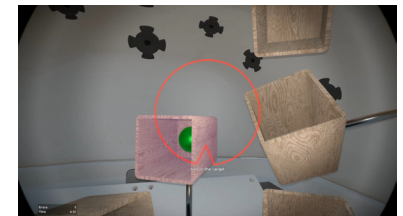
### Which scope?

Find out which laparoscope you are using (zero or thirty degree) and give the correct answer. The type of laparoscope is random at the start of the exercise.



### 4 Boxes

Find the spheres in the four boxes by rotating the thirty degree camera lens and keep the horizon steady.



### 6 Boxes

Find the spheres located in the six boxes by rotating the thirty degree camera lens and keep the horizon steady. Boxes are positioned in all directions.

## MySimendo

MySimendo is the online platform that comes with the simulator. This platform manages all data that has been obtained through the Simendo simulator. This platform was the first online platform for surgical simulators and is still considered as the most sophisticated and user-friendly platform that is currently available.

With MySimendo.com scores and certificates are safely stored and always accessible for users. The Simendo makes use of several predefined and scientifically validated curricula that includes nominal scores as a reference for user scores. During training there is no human intervention that can influence the scores accept the user itself. This advanced computer model makes the scoring 100% objective and there is no need for supervisors to check whether the trainee performed well.

MySimendo gives you the full benefits of simulation and is widely accepted, it handles over 15.000 scores every month!

- ✔ Most advanced and user friendly online scoring platform for medical simulators.
- ✔ Online profiles so trainees can resume their training on any Simendo worldwide.
- ✔ Safely stores trainee data in a protected environment.
- ✔ Sends out certificates to users and supervisors.
- ✔ Notifies the supervisor after a trainee has passed the exam.
- ✔ Certification expiry option for repeated training.
- ✔ Supports online competing through the simulation software throughout the year.
- ✔ Create hospital groups for regions.

## Publications

If you decide to mandate the training it is essential that there is a scientifically proven foundation. Therefore Simendo BV maintains a close relationship with various academic centres and universities. This close relationship does not only lead to new products, but also new publications and validation articles on which the certificate scores are based.

Graafland, M., Bok, K., Schreuder, H.W., & Schijven, M.P. (2013)  
A Multicenter Prospective Cohort Study on Camera Navigation  
Training for Key User Groups in Minimally Invasive Surgery.  
Surgical Innovation, 21(3), 312-319.

## Contact

Feel free to contact us if you would like purchase information about the Simendo camera trainer or one of our other products.

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