

New algorithms in Segment CMR



A new fully automated LV segmentation algorithm based on machine learning and an improved vessel tracking algorithm are now available in Segment CMR v3.1.

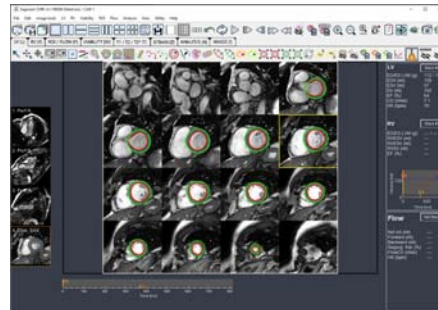
If you would like to have a demonstration of the new tools or assistance in the upgrading process, you can reach us by email support.

New Features in Segment CMR 3.1

Note Updated system requirements for Segment CMR v3.1 are found in [Instructions for Use Chapter 3](#).

New automatic LV segmentation

The new segmentation algorithm is based on machine learning in 1100 patients, and in careful validation show high agreement with reference standard. To make the tool as accessible as possible we provide three different variants dependent on your computer setup as described below.



Guidance for the new LV tools

[Video tutorial automatic LV analysis](#)

[Video tutorial semi-automatic LV analysis](#)

[Instructions for Use Chapter 7 LV segmentation](#)



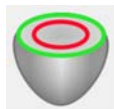
Automatic LV segmentation in all time frames

To run the fully automatic LV segmentation in all time frames, a CUDA enabled NVIDIA graphics card is required. The algorithm runs in less than 10 seconds and provides high quality LV segmentation in all time frames.



Automatic LV segmentation in ED and ES

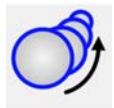
For those not having a CUDA enabled NVIDIA graphic card, the fully automatic LV segmentation is provided for segmentation in ED and ES. The algorithm then runs in about 1 minute and provides high quality LV segmentation in ED and ES.



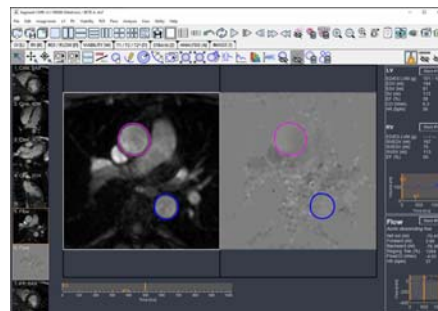
Semi-automatic LV segmentation

The semi-automatic algorithm is provided for all computer setups. The user manually selects most basal and most apical slice and bounding box around LV. The algorithm then runs in 5-30 seconds and provides high quality LV segmentation in all time frames.

Improvements in flow analysis



The automatic vessel tracking algorithm is updated for improved tracking. You access the algorithm in the same way as before and it provides vessel segmentation in all time frames. The updated algorithm will provide a vessel segmentation that is a bit larger compared to the previous algorithm and thus includes more of the peripheral of the vessel.



Upgrading

General

- **Note** Updated system requirements for Segment CMR v3.1 are found in [Instructions for Use Chapter 3](#).
- If you are running the services Segment Server you need to turn them off before upgrading, and then turn them on after the upgrade.

To upgrade from Segment CMR 2.2 or earlier

- The installation of the new version of Segment CMR will **not** overwrite your previous installed software version. Therefore, after upgrading and verification that the new version works, delete the previous version of Segment CMR by deleting the folder C:\Program\Segment CMR (win64bit) or C:\Program Files\Segment CMR and any potential short-cut to the program.
- To speed up the launching process for the new version of Segment CMR, after installation go to the Help meny in the software and select "Setup Wizard". Select "Speed up the Software Launching" and follow the instructions.
- The new version is only available for 64-bit Windows 10.

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Best regards

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