



# Release Notes for HCA-Vision Neurite Analysis Module V1.5

## Introduction

These release notes describe system requirements, installation instructions, and known issues for HCA-Vision Neurite Analysis Module V1.5.

These release notes are updated each time when we have major releases, so please check back for new information.

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## System Requirements

### Software Requirements

- Windows XP Professional with Service Pack 2 or Windows 2003
- Microsoft .Net Framework 2.0. HCA-Vision setup will automatically detect the availability of the .Net framework 2.0 and will install it automatically if it is not present on your machine.

### Hardware Requirements

- PC with 1 GHz or faster Intel Pentium processor recommended
  - 512 MB of RAM required; 1 GB or more of RAM recommended
  - 500 MB hard-disk space required; 1 GB or more hard-disk space recommended
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## Installation Notes

For detailed Installation Instructions, please see <http://www.hca-vision.com/support>

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## New Features and Fixes

### New Features

- Improved algorithms for neurite detection. This leads to a much faster execution time for the neurite detection, which is about half of the time in the previous version.
- [The ability to separate two cell populations such as neurons and astrocytes has been added to HCA-Vision.](#)
- Result images greater than image viewer in size are now presented with unbroken lines through resampling.

- Neuron body detection, neurite detection, neurite analysis tutorials are available from the Help menu of HCA-Vision.
- The result images from cell detection, neuron body detection, neurite detection and neurite analysis can now be overlaid on the the original image, a selected channel of the image, nuclei image, or their reversed images.

### **Fixes**

- Neurite intensity measurements created in the neurite analysis batch processing are not saved properly in either the result database or CSV files.
  - The overlaid result images created in batch processing use a different lookup table from the one used in single image analysis.
  - Memory leaks in neurite detection code.
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### **Deprecated Features**

Nil.

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### **Outstanding Issues**

- Pre-processing module to be added.