



# Release Notes for HCA-Vision Neurite Analysis Module V1.7

## Introduction

These release notes describe system requirements, installation instructions, and known issues for HCA-Vision Neurite Analysis Module V1.7.

This release includes two new modules - the pre-release version of the Subcellular module and the Co-culture Analysis module. It also includes improvements to the Neurite Analysis module. The Subcellular module has the following functions: nucleus detection, cell detection, cell scoring, membrane detection, co-localisation analysis and intensity measurement. A Region Of Interests (ROI) function has also been introduced. The Co-culture Analysis module can be used to simultaneously analyse multiple cell-type populations. Among the improvements for the Neurite Analysis module in this version is a filtering function for mixed cell populations, where a mixture of neurons and other brain cell types need to be separated using a combination of size, brightness and low intensity in different channels.

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

- Co-culture module has been added.
- Sub-cellular module has been added.
- Introduced Region Of Interest (ROI) function for nucleus and cell detection, intensity and co-localisation measurement.
- Introduced cell scoring module.
- Introduced membrane detection module.
- Images in GE's FRM format can now be batch processed.
- De-clumping function is introduced for nucleus detection.

### **Fixes**

- Adding image files to batch processing file list caused exception if they already exist in the list. This has been rectified.
- Other minor and miscellaneous bugs.

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## **Deprecated Features**

Nil.

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