



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.

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

Installation Notes

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

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.

Deprecated Features

Nil.

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