



## PANNASOFT EXACT™

Optical Mark & Character Recognition  
precision in the art of recognition!

### OVERVIEW

Pannasoft Exact™ is a unique optical mark and character recognition (OMCR) software component, bundled with critical features to fulfill the demanding needs of machine vision application developers. It uses *Autonomous Adaptive Algorithm™ (AAA)*, a hybrid soft computing technology, combining neural networks with fuzzy logic for superior recognition capability.

Pannasoft Exact™ excels in key areas of recognition performance, emphasizing on speed, efficiency, reliability and even in certain poor quality image environment settings. The component is platform-independent and its dynamic-link libraries (DLL) can be called from any applications, thus providing extra flexibility. Pannasoft Exact™ is trainable with different types of fonts and symbols, further extending the capabilities and usefulness of the OMCR component.

### ADVANTAGES

Pannasoft Exact™ is developed with features that provide better accuracy and reliability under different image conditions. Compared to common pattern matching technique,

- Pannasoft Exact™ characterizes the structure of the characters based on their features and not solely on spatial patterns. In contrast, template matching matches shapes of single-font characters in textual images in order to identify them.
- Pannasoft Exact™ is more robust as it has the ability to handle small variations in parameters and noise (noise tolerance).
- Pannasoft Exact™ has the “generalization” capacity; the ability to give a satisfactory response for an input which is not part of the set of examples previously trained.
- Users have full control in using any feature extraction methods in Pannasoft Exact™.
- Users are allowed to configure the sensitivity level of the recognition rate in Pannasoft Exact™.

## THE TRAINABLE OMCR ENGINE

Pannasoft Exact™ allows you to improve recognition by incorporating a trainable engine in the OMCR component. The OMCR engine can be taught to recognize different types of fonts, characters, symbols and objects for better accuracy.

This trainable engine increases Pannasoft Exact™ functionalities, recognition accuracy and software versatility. From a purchasing viewpoint, Pannasoft Exact™ offers more flexibility, reduces obsolescence and ultimately protects your investment.

### Configurable Parameters

Pannasoft provides support to tune and tweak Pannasoft Exact™ to meet customer's requirements. This special customization helps improve the accuracy in process optimization and increase the speed of the development cycle. Time and effort are reduced from developing unnecessary add-on solutions to suit particular needs.

### Customer Support

- Assistance in integrating Pannasoft Exact™ into customer's computing environment
- Support for optimizing Pannasoft Exact™'s performance
- Online and on-site technical support
- Technical training

Pannasoft Exact™ can be easily applied across multiple platforms such as Linux and Windows, providing the flexibility for seamless integration with customer's existing platform.





 [www.pannasoft.com](http://www.pannasoft.com)

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Through **Intelligence**

