



PANNASOFT OPTUNE™

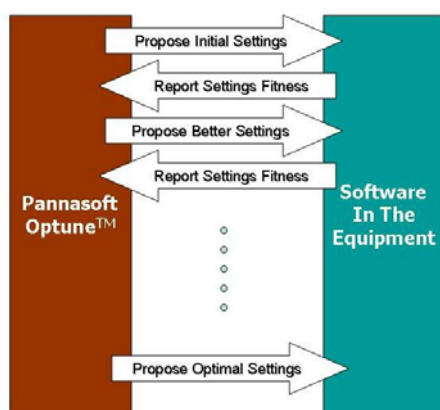
Automated Setting Adjustment Component
tuned for optimal performance!

Vision inspection system designers need to deal with the challenges of preparing their systems for optimal use in the production environment. Variance in the lighting and optical parts of the system could cause a drop in vision inspection performance. Parts that composed the system are not perfectly identical and their performance levels deteriorate over time due to wear and tear. For instance, lighting sources grow dimmer from prolonged use over a period of time. In addition, not all CCD/CMOS sensors will be able to produce the same results as the others as they become less sensitive. As a result, regular process adjustment is required.

Pannasoft Optune™

Pannasoft Optune™ enables vision system designers to easily incorporate automated setting adjustment feature into their system. With automated setting adjustment, vision system can be calibrated to optimal settings before it is used in the production floor. Pannasoft Optune™ has been proven functionally where a set of complex optical parameters has to be tuned to produce images with acceptable quality.

The algorithm embedded in Pannasoft Optune™ is a genetic optimization component that can be applied to any process parameter setting adjustment. The component can be easily integrated with the software in the vision system. Moreover, Pannasoft Optune™ is a COM object/DLL-based component that can be easily embedded into any Windows-based vision software.



During the process adjustment, Pannasoft Optune™ produces several suggestions on the parameter settings of the equipment. Subsequently, the software in the equipment provides feedback to Pannasoft Optune™ on the level of “image fitness” of the proposed settings. Based on the feedback, Pannasoft Optune™ intelligently suggests better settings. After several iterations, usually within a few seconds, Pannasoft Optune™ will be able to find a set of optimal settings.

The figure on the left shows how Pannasoft Optune™ operates.

Features & Benefits

1. With Pannasoft Optune™, the vision system is less susceptible to inconsistencies of the lighting and optical devices, external light interference and mechanical misalignment. Thus the maintenance cost can be reduced.
2. Pannasoft Optune™'s COM/DLL based software component can be easily integrated with any software system, e.g., VC++, LabView, MATLAB, VB or .NET systems. Thus the integration effort and costs can be reduced.
3. Pannasoft Optune™'s highly configurable software component allows vision system designers to optimize performance and quality of their solution. Your equipment software maintains a full control of how optimization and calibration are done.



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