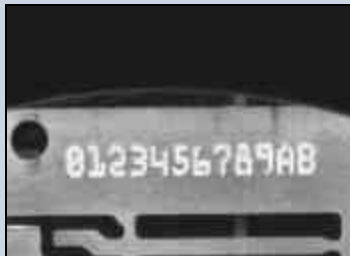
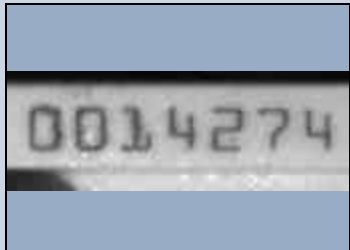


Sapera Processing 5.1: OCR Tool

This report benchmarks the performance of Coreco Imaging's Sapera Processing (V. 5.1) OCR tool. The tests were run on an Intel® Pentium® 4, 2.4GHz processor with 1GB of memory (DDR 400) and running Windows XP® operating system.

Reference Image	Font and Parameters
	Name: ID (Id1_Inv.bmp) ROI: (115, 229) (396,278) Font: Semi
	Name: Lead Frame (LdFrm001_640x480.bmp) ROI: (106, 276) (569, 349) Font: Semi
	Name: Op Amp (OpAmp1_792x254.bmp) ROI: (50, 56) (764, 188) Font: OCR-A

The Results

The table below shows the execution time for both minimal and optimal parameter sets. The **minimal parameter set** contains the minimum set of parameters that differ from the default. This is required for images presenting a certain level of degradation such as the ones chosen for this test.

The **optimal parameter set** is the set of parameters that gives the better performance for the given image.

Parameters	Images		
	ID	Lead Frame	Op Amp
Minimal	Acceptance Level: 40	Acceptance Level: 40	Edge Width: 8
	14.9ms	22.3ms	21.5ms
Optimal (Including minimal)	Resolution: normal Fielding enabled Relaxed Mode	Resolution: normal Fielding enabled	Resolution: normal Fielding enabled Relaxed Mode Threshold: integer
	2.9ms	7.4ms	6.8ms

The default **resolution** is "high". By setting it to "normal", only one-eighth of the image full resolution is used. The **fielding** is a mechanism that allows restricting a specified character position to contain only certain characters, such as numeric-only or alphabetic-only for example. The **relaxed mode** is an option that disables one of the three internal classification algorithms.

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