

Cost-per-Print of four test documents

° **Determine Ink Cartridge Yields – the average number of prints-per-cartridge for each cartridge**

- Test files printed continuously, HP-supplied and *SpencerLab* Printer Test Suite
 - Black Text, *Dignissimas2*
 - Mixed Text & Graphics, *ErolmMsupi*
 - News Letter, *SpencerLab LC Newsletter*
 - PowerPoint Slide, *SpencerLab Boise 5a*
- Cartridges judged to be at “end-of-life” at the earlier of an ‘Ink Out’ signal on the control panel or when test prints show visible defects attributable to ink supply
 - HP BIJ 1200: ‘Ink Out’ signal provided on printer control panel
 - Canon i865: ‘Ink Out’ signal provided on printer control panel
- Testing is repeated over multiple cartridges to assure consistency

° **Calculate ink component cost-per-print**

- Divide each cartridge cost by the corresponding cartridge yield (average prints-per-cartridge)

° **Calculate other user-replaceable component pro-rata costs**

- *HP BIJ 1200 contains user-replaceable printheads; therefore, include printhead cost in total Cost-per-Print*
- *Although the Canon i865 printhead and waste ink tank can be replaced, neither has a scheduled life nor should they be replaced under typical usage; therefore, do not include in total Cost-per-Print*

° **Sum these component costs to obtain total Cost-per-Print for the test document**



° Print Modes: default

- Print in Grayscale/All Text in Black options for the Black Text document

° Test Document Coverage Estimates

- Ink Coverage: the sum of the parts of the total page covered by each primary – Cyan, Magenta, Yellow, Black
 - Ink coverage varies considerably with each individual printer and mode – SWOP coverage is indicated for reference
- Page Coverage: the part of the total page covered by any color (color can include multiple primaries)

SWOP Coverages	Page	cyan	magenta	yellow	black	Ink/Toner
<i>Black Text</i>	4.1%				4.1%	4.1%
<i>Mixed Text & Graphics</i>	9.6%	3.3%	2.4%	0.3%	8.3%	14.3%
<i>News Letter</i>	12.3%	4.5%	4.1%	2.9%	9.8%	21.3%
<i>PowerPoint Slide</i>	14.1%	10.1%	10.5%	7.7%	3.9%	32.2%

° Cartridge and Printhead Prices

Component Costs		cyan	magenta	yellow	Pigment black	Dye black
<i>HP BIJ 1200</i>	<i>Ink</i>	€23.90	€23.90	€23.90	€23.90	
	<i>Printhead</i>	€24.50	€24.50	€24.50	€24.50	
<i>Canon i865</i>		€7.80	€7.90	€7.90	€9.90	€7.90

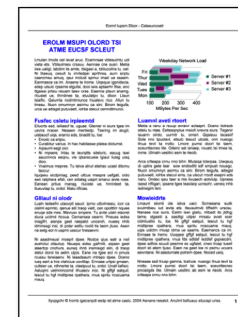
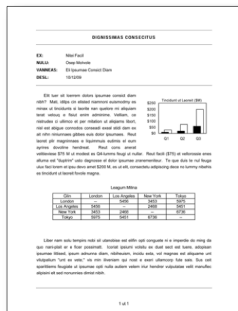
Euro prices (excluding MwSt) as of 9/13/04 per www.bechtle.de

- Independent testing by the *SpencerLab* Digital Color Laboratory was sponsored by Hewlett-Packard Company
- Test results for the Canon i865 are based upon testing of the US i860 version, believed to be functionally equivalent

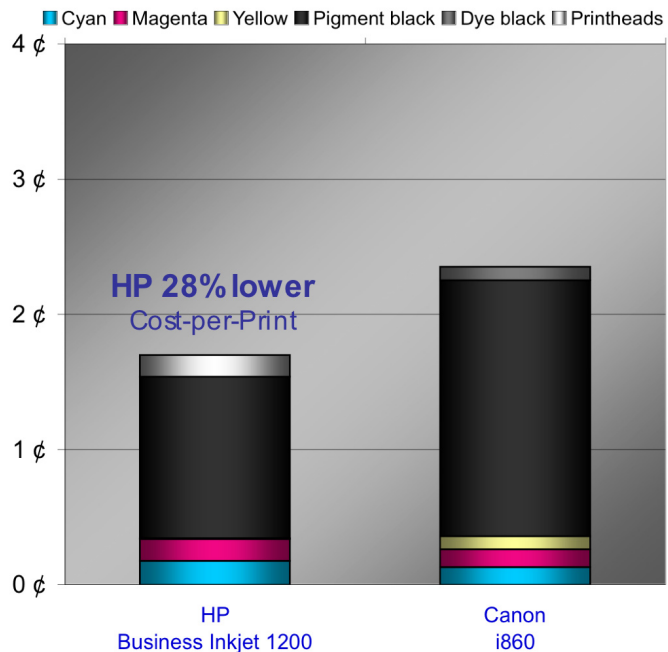


Cost-per-Print: Euro cents – HP Business Inkjet 1200 vs. Canon i865

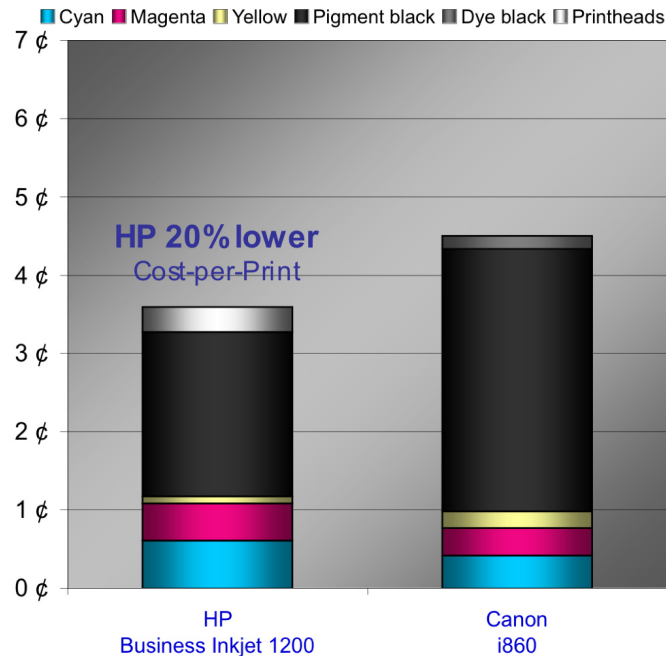
spencerLAB
COST-PER-PRINT TESTED



BLACK TEXT



MIXED TEXT & GRAPHICS

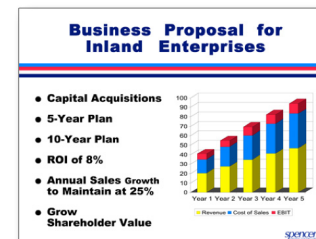


E-Commerce Pricing (excluding MwSt), per www.bechtel.de, as of 09/13/04. Cost-per-Print includes HP printhead costs. All testing performed using default driver settings.

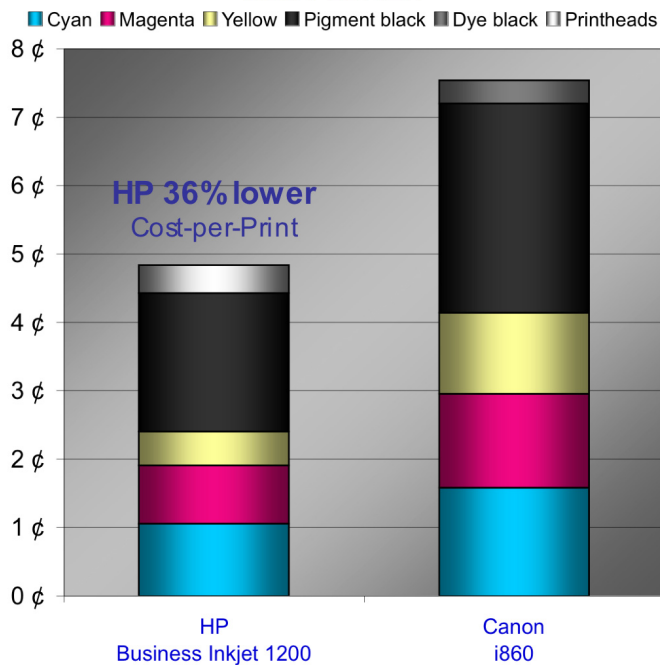


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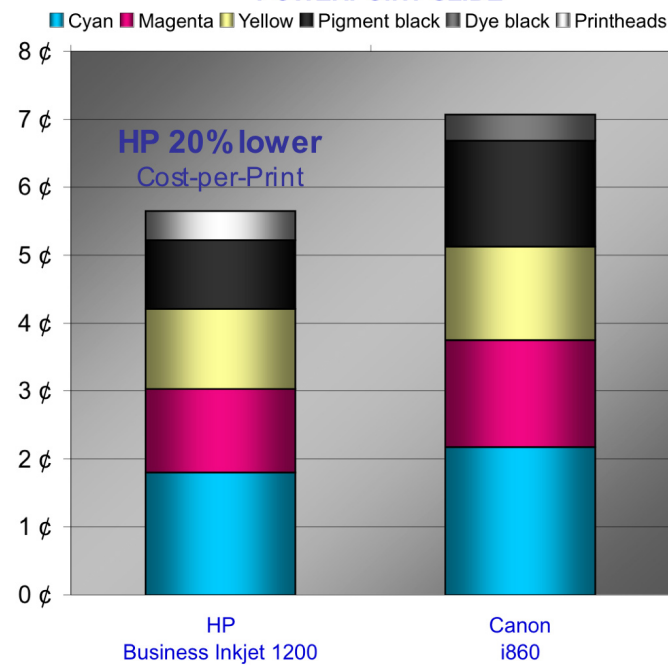
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COST-PER-PRINT TESTED



NEWS LETTER



POWERPOINT SLIDE



E-Commerce Pricing (excluding MwSt), per www.bechtile.de, as of 09/13/04. Cost-per-Print includes HP printhead costs. All testing performed using default driver settings.

