## **Cost-per-Print Methodology:**

# HP Business Inkjet 1200 vs. Canon i860

### **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, Erolm Msupi
  - News Letter, SpencerLab LC Newsletter
  - PowerPoint Slide, SpencerLab Boise 5a
- Cartridges judged to be at "end-of-life" at the earlier of an 'lnk 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 i860: '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 i860 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



## Methodology... (con't)

# HP Business Inkjet 1200 vs. Canon i860

#### ° 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
Black Text	4.1%				4.1%	4.1%
Mixed Text & Graphics	9.6%	3.3%	2.4%	0.3%	8.3%	14.3%
News Letter	12.3%	4.5%	4.1%	2.9%	9.8%	21.3%
PowerPoint Slide	14.1%	10.1%	10.5%	7.7%	3.9%	32.2%

#### °Cartridge and Printhead Prices

Compon	ent Costs	cyan	magenta	yellow	Pigment black	Dye black
HP BIJ 1200	Ink	\$31.49	\$31.18	\$31.28	\$31.40	
	Printhead	\$32.45	\$32.48	\$32.54	\$32.38	
Canon i860 \$1		\$11.64	\$11.73	\$11.79	\$13.03	\$11.61

US\$ E-Commerce prices as of 8/16/04 per independent third party: Current Analysis

•Independent testing by SpencerLab Digital Color Laboratory was sponsored by Hewlett-Packard Company



## Cost-per-Print: U.S. cents -

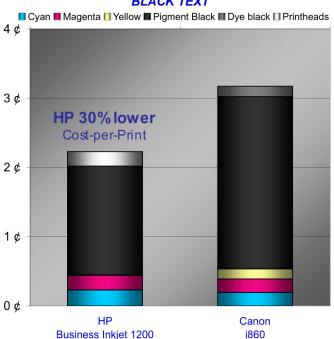
# HP Business Inkjet 1200 vs. Canon i860



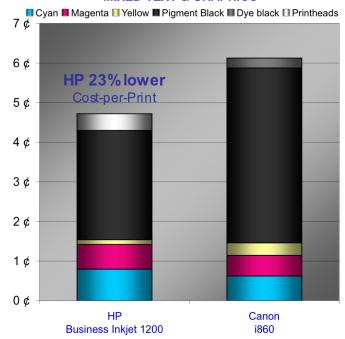


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#### **BLACK TEXT**



#### **MIXED TEXT & GRAPHICS**



E-Commerce Pricing per Current Analysis 08/16/04. Cost-per-Print includes HP printhead costs. All testing performed using default driver settings



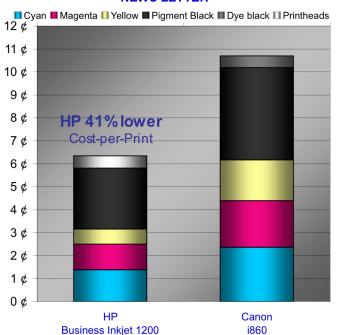
## Cost-per-Print: U.S. cents -

# HP Business Inkjet 1200 vs. Canon i860



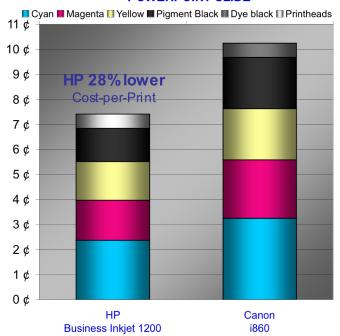


#### **NEWS LETTER**





#### **POWERPOINT SLIDE**



E-Commerce Pricing per Current Analysis 08/16/04. Cost-per-Print includes HP printhead costs. All testing performed using default driver settings

