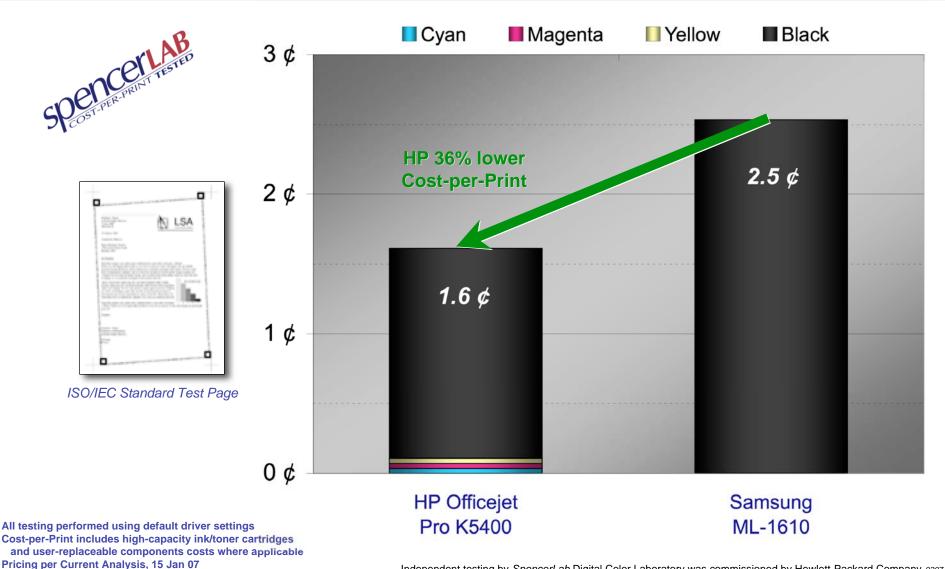
# Cost-per-Print: U.S. cents -

### **HP Officejet Pro K5400 Color Inkjet** and Samsung ML-1610 Monochrome Laser Printer





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

### **HP Officejet Pro K5400 Color Inkjet and Samsung ML-1610 Monochrome Laser Printer**

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

- Test document from ISO/IEC 19752 International Standard for determining monochrome toner yield
  - Standard Test Page version 4.0.1., printed semi-continuously with stops for paper replenishment, overnight, etc.
- Print Modes: plain paper default via Adobe Reader 7.0.8
- Test High Capacity OEM inks/toner where available
  - HP #88 Large Black, Cyan, Magenta and Yellow ink cartridges
  - Samsung (ML-1610D2) toner cartridge
- Cartridges judged to be at "end-of-life" when an out of ink/toner signal is displayed on printer control panel/driver; otherwise when test prints show visible defects (*fade*) attributable to toner supply
- 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

- Samsung ML-1610 contains no user-replaceable components
- The HP Officejet Pro K5400 printheads are designed for the life of the printer; therefore, although user-replaceable, it is not included in the total Cost-per-Print

#### ° Ink/Toner Cartridge Prices

COMPONENTS COST	CYAN	MAGENTA	YELLOW	BLACK
HP Officejet Pro K5400	\$ 26.37	\$ 26.62	\$ 26.65	\$ 34.74
Samsung ML-1610	_	_	_	\$ 58.04

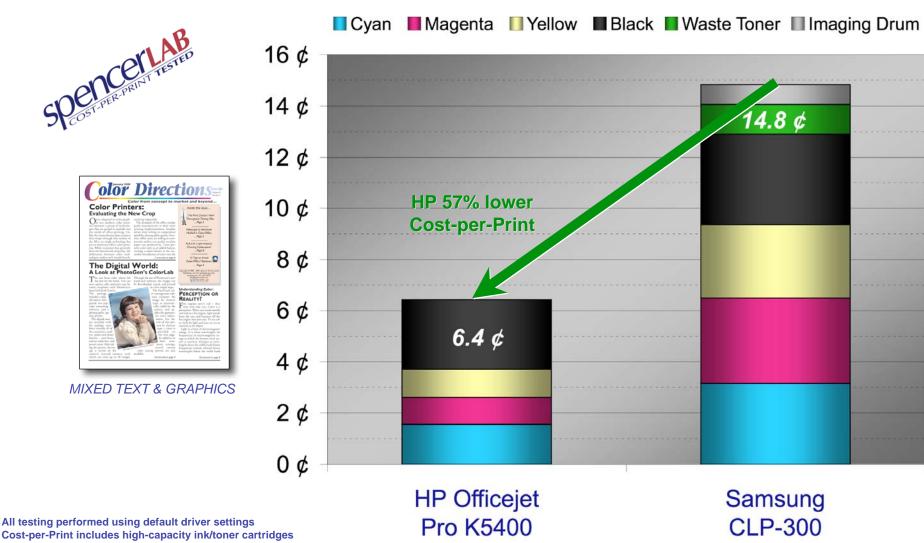
Pricing per Current Analysis 15Jan07

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



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

# **HP Officejet Pro K5400 Color Inkjet** and Samsung CLP-300 Color Laser Printer



Cost-per-Print includes high-capacity ink/toner cartridges and user-replaceable components costs where applicable Pricing per Current Analysis, 15 Jan 07

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

## **HP Officejet Pro K5400 Color Inkjet and Samsung CLP-300 Color Laser Printer**

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

- Test document from the SpencerLab Printer Test Suite
  - Mixed Text & Graphics, Color Newsletter, printed semi-continuously with stops for paper replenishment, overnight, etc.
- Print Modes: plain paper default via Adobe Reader 7.0.8
- Test High Capacity OEM inks/toner where available
  - HP #88 Large Black, Cyan, Magenta and Yellow ink cartridges
  - Samsung Black (CLP-K300A), Cyan (CLP-C300A), Magenta (CLP-M300A), and Yellow (CLP-Y300A) toner cartridges
- Cartridges judged to be at "end-of-life" when an out of ink/toner signal is displayed on printer control panel/driver
- 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

- Samsung CLP-300 contains user-replaceable OPC Drum Cartridge (CLP-R300A) and Waste Toner Container (CLP-W300A); therefore, include these component costs in total Cost-per-Print based upon manufacturer rated yield
- The HP Officejet Pro K5400 printheads are designed for the life of the printer; therefore, although user-replaceable, it is not included in the total Cost-per-Print

#### ° Ink/Toner and User-replaceable Component Prices

		•	•			
COMPONENTS COST		CYAN	MAGENTA	YELLOW	BLACK	
HP Officejet Pro K5400		\$ 26.37	\$ 26.62	\$ 26.65	\$ 34.74	
Samsung CLP-300	Toner	\$ 51.86	\$ 51.86	\$ 51.86	\$ 60.90	
	OPC	\$ 96.18				
	Waste Toner	\$ 14.49				

Pricing per Current Analysis 15Jan07

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

