Samsung CLP-510/550 Series

Color Laser Printer Product Guide

World-renowned quality and innovation delivering
unprecedented productivity and solutions.

SAMSUNG

Productivity. Quality. Solutions. Samsung works for you.

Samsung CLP-510/550 Series color laser printers are the best in the business because they're the most complete. They're fast. Powerful. Durable. Efficient. Delivering sharp laser text and beautiful photograph-quality images, even on plain paper, in a way that makes your documents more powerful than ever.

Superior Productivity

Samsung color laser printers are the most productive in the category. With fast print speeds. High paper capacity. The easiest toner changes. And so much more, including the largest toner capacity in their class and a low cost per page.

Higher Quality

In a recent reliability survey, Samsung was the only color printer manufacturer rated Outstanding by PC World magazine (12/03). Our printers are also constantly recognized for their superior print quality, technical innovation and more.
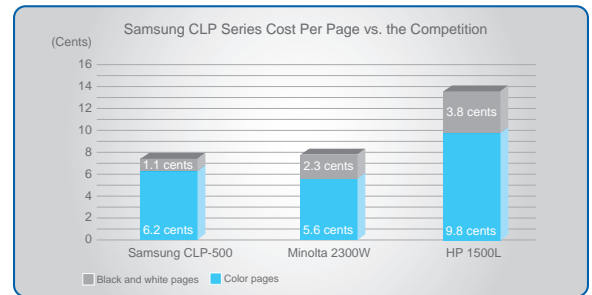
Better Solutions

Always leading with technology, Samsung color laser printers are the first with built-in automatic duplexing. They also offer network and wireless solutions. Professional-level color matching software. And the support of a solutions team dedicated to meeting unique customer needs.
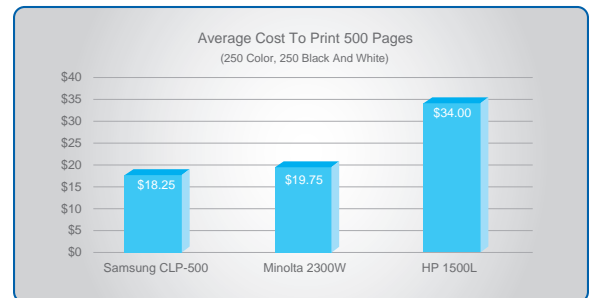
Check the specs.

Compare our CLP Series color laser printers to the competition, and it's easy to see ours are the fastest and quietest. What you won't find in their brochures, though, is the CLP Series' cost of ownership advantage. As soon as we introduced our CLP Series printers, the CLP-500 was independently tested to be the most cost-effective among key competitors, delivering the lowest cost per page and lowest total cost of ownership when printing both color and black and white.

Save big when printing both color and black and white.

Samsung CLP Series Cost Per Page vs. the Competition

(Cents)

	Black and white pages	Color pages
Samsung CLP-500	1.1 cents	6.2 cents
Minolta 2300W	2.3 cents	5.6 cents
HP 1500L	3.8 cents	9.8 cents

Compared to the Samsung CLP Series printer, the cost of printing one color and one black and white page is almost 8% higher for the Minolta 2300W and a staggering 86% higher for the HP 1500L.

Save almost $160 on every box of paper printed.

Average Cost To Print 500 Pages
(250 Color, 250 Black And White)

Samsung CLP-500	Minolta 2300W	HP 1500L
$18.25	$19.75	$34.00

With its significantly lower cost per page, a Samsung CLP Series color laser printer can save you up to $15.75 in printing costs each ream. That's almost $160 per 10-ream box.
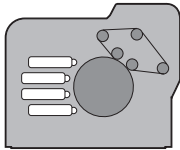
Test Methodology Summary NSTL, Inc. conducted an independent cost per page analysis that included three high-quality color laser printer models. The cost per page analysis is a comparison of the indices that could be used to forecast possible printing costs after the purchase of the printers. Each printer's index is arrived at by summing the individual consumables' cost per page. The individual consumable cost per page is calculated by dividing the accumulated consumable yield from all test runs into the total cost of the consumables utilized by those runs. Toner yield output is defined as the total of all printed sheets, for six cartridges of each color (including black), that did not contain a major permanent print error (e.g. print quality deemed unacceptable). Drum yield output is defined as the total number of sheets printed, regardless of print quality, while printing with a specific drum. NSTL concluded that the Samsung CLP-500 offered the lowest cost per page and the lowest total cost of ownership, and that the "difference in the cost per page could save the end user a significant amount of money over the life of the printer." All figures noted are from NSTL's independent test.

Easier. More reliable. Our innovative engine design is a breakthrough.

Our CLP-510/550 Series color laser printers feature an innovative new static engine architecture that requires fewer moving parts. With this exclusive NO NOIS™ (Non-Orbiting Noiseless Optic Imaging System) technology, you'll enjoy easier toner changes, higher reliability and quieter operation.
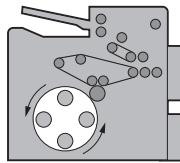
Samsung CLP-510/550 Series Printers

With our exclusive NO NOIS™ engine design, the toner cartridges are fixed securely in place, resulting in easier, quieter, more reliable operation.

◁ Fixed Toner Cartridges

Competitors' Printers

The competitors' print process requires constant rotation of all toner cartridges, resulting in more difficult toner changes, excessive noise and lower reliability.

◁ Rotating Toner Cartridges

Lowest noise level in the category.

One of the benefits of NO NOIS™ technology is that it allows our CLP-510/550 Series color laser printers to operate as low as 48 dBA, making for a more comfortable workplace.
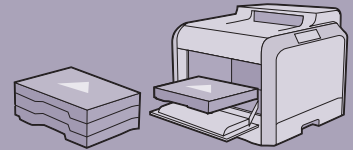
Toner changes as easy as 1-2-3.

Instead of the 16 time-consuming steps required by other color laser printers to change all four cartridges, our NO NOIS™ technology makes it easy to change them all in just three quick steps.

Samsung CLP-510/550 Series Toner Change

3 Steps
- Open
- Exchange
- Close

It's a simple 3-step process.
Open a door. Exchange a single cartridge or all four. Close a door. No headaches. No fuss. No messy toner spilling all over your favorite khakis.

Photo-quality printing on plain paper.

Samsung CLP-510/550 Series printers deliver photo-quality images without the expense of specialty paper. So the beautiful image you see on screen is the beautiful image that shows up in your documents.
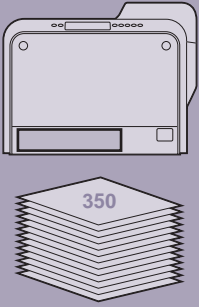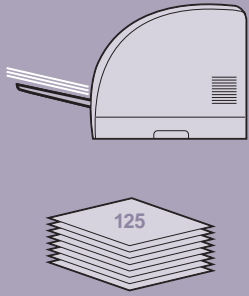
Built-in duplex unit takes the guesswork out.

Manual duplexing, or printing both sides of a sheet of paper, is often an aggravating scenario of endless guesswork trying to figure out exactly how to feed the paper. It's a huge waste of time and paper and toner that we thought you'd be better off without.

That's why we designed the CLP-510/550 Series with built-in duplexing. The whole process is as simple as pushing a button. On the competitors' machines, automatic duplexing is about $399 extra, or not even an option.

Included cassette provides superior paper handling.

Our CLP-510/550 Series printers have one of the highest paper capacities in the category. They're also one of the only ones that include a standard paper cassette, for sleeker, more secure paper storage. You can print 350 pages without ever having to reload.

Maximum Paper Capacity

350

125

CLP-510/550 Series
High-capacity internal paper cassette is sleek and secure.

Competitors
External paper tray is awkward and fragile.

Increased productivity. Higher quality. And more.

The speed you need.
Our CLP-510/550 Series printers deliver documents fast. They print in color up to 6 pages per minute, black and white up to 25 pages per minute.

Plays well with others.
With Ethernet and 802.11b wireless options, plus the embedded USB 2.0 (and IEEE-1284 parallel ports on 550 Series), CLP-510/550 Series printers are ready for easy plug-and-print setup on almost any system.

Unprecedented reliability.
Because they operate with fewer moving parts, our CLP-510/550 Series color laser printers operate with fewer service interruptions.

Unprecedented warranty.
The CLP-510 comes with a 1 year on-site warranty, the only warranty like it in its class. When you offer a reliable printer, you can do things like that.

Big jobs are no problem.
With the USB 2.0 connection and built-in high-capacity expandable memory, even the heaviest load is handled with ease.

Low running costs.
With large-capacity toner cartridges, our CLP-510/550 Series printers are among the most economical models in the category.

Built-in status monitor.
An easy-to-read LCD window gives you a prompt status report and at-a-glance troubleshooting.

CLP-510/550 Series Specs

Product Specifications	CLP-510/510N	CLP-550/550N
General		
Technology	Laser	
Max Print Speed (Black, Color)	Up To 25 ppm, 6 ppm	Up To 21 ppm, 5 ppm
Duplex Max Print Speed (Black, Color)	Up To 11 ppm, 6 ppm	Up To 10 ppm, 5 ppm
First Page Out (Black, Color)	Approx. 13 Sec., 21 Sec.	Approx. 15 Sec., 24 Sec.
Processor	Samsung SPGPm	PPC 603e – 266MHz
Color Management	ICC ICM V2.0	
Memory, Standard	64 MB	550: 64 MB 550N: 128 MB
Memory, Maximum	192 MB	550: 320 MB 550N: 384 MB
Print Language	SPL-C	PS 3, PCL 5Ce, SPL-C
Resolution		
Print Resolution	Up To 1200 dpi Effective Resolution	
Connectivity		
Connectivity, Standard	510: High-Speed USB 2.0 510N: High-Speed USB 2.0, 10/100Base-TX	550: High-Speed USB 2.0, IEEE-1284 Parallel 550N: High-Speed USB 2.0, IEEE-1284 Parallel, 10/100Base-TX
Connectivity, Optional	510/550: 10/100Base-TX, 10/100Base-TX + 802.11b Wireless LAN 510N/550N: 10/100Base-TX + 802.11b Wireless LAN	
Paper Handling		
Max Sheet Size	8.5" x 14" (Legal Size)	
Input Capacity, Standard (Tray 1, Multi-Purpose Tray)	250 Sheets, 100 Sheets	
Input Capacity, Optional	500 Sheets	
Output Capacity, Standard (Face-Down)	250 Sheets	
Duplexing	Automatic, Built-In Unit	
Supported OS		
Microsoft® Windows	98, Me, 2000, XP, 2003, NT 4.0 (510N Only)	98, Me, NT 4.0, 2000, XP
Apple® Mac OS1	OS 10.3x	OS 8.2–9.2, 10.1–10.3
Linux	Red Hat, Caldera, Debian, Mandrake, Slackware, Turbolinux, SuSE	
Miscellaneous		
Standard Fonts (Scalable, TrueType)	N/A	45, 136
Noise Level2	49 dBA	48 dBA
Power Consumption (Printing, Idle)	450 Watts, 17 Watts	450 Watts, 35 Watts
Monthly Duty Cycle (Black)	Up To 35,000 Pages	
Dimensions (W x D x H)	20.1" x 18.5" x 15.9"	
Weight	70.5 lbs.	
Consumables		
Black Toner (3,000, 7,000 Pages)	CLP-510D3K, CLP-510D7K	CLP-500D7K
Cyan Toner (2,000, 5,000 Pages)	CLP-510D2C, CLP-510D5C	CLP-500D5C
Magenta Toner (2,000, 5,000 Pages)	CLP-510D2M, CLP-510D5M	CLP-500D5M
Yellow Toner (2,000, 5,000 Pages)	CLP-510D2Y, CLP-510D5Y	CLP-500D5Y
Toner Yield (Mono, Color)	7,000 Pages[3] 5,000 Pages[3]	
OPC Drum	CLP-510RB	CLP-500RB
Waste Toner Container	CLP-500WB	CLP-500WB
Image Transfer Belt	CLP-510RT	CLP-500RT
Accessories		
Second Paper Cassette	CLP-510S5	CLP-500S5
Network Solution	ML-00NC	
Wireless/Network Solution	ML-00LC	
Memory Upgrade	ML-00MC (64 MB), ML-00MD (128 MB)	

[1] Max print speed and resolution may be reduced with Mac OS. Duplex function is not available in Mac OS 10.1.
[2] Samsung operating acoustics measured by sound pressure level according to ISO 7779 standards.
[3] Letter size at 5% coverage.

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