Xerox Phaser 6140N

21-ppm Monochrome; 19-ppm Color

Print

Key Buyer Benefits

- Great print productivity for both color and monochrome
- High print resolutions up to 600 x 600 x 4 dpi
- Excellent image quality due to Xerox's Emulsion Aggregate Toner that demonstrates crisp text and is Pantone color approved providing solid, vibrant and uniform colors
- Control panel consists of a two-line LCD screen which displays easy instructions for troubleshooting
- Great design and ease-of-use with both the PCL and Adobe Postscript drivers
- Great ease-of-use for clearing misfeeds, loading paper, and changing toner
- Standard 256 MB of RAM, upgradable to 1280 MB
- Maximum paper capacity 501 sheets
- Monthly duty cycle of 40,000 pages
- Xerox Green World Alliance Recycling Program offers free, convenient recycling
- Xerox's One-Year Onsite warranty provides added peace of mind
- Flexible desktop and network utilities via Xerox's CentreWare internet services delivers exceptionally easy to use device monitoring

100% INDEPENDENT ANALYSIS

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OFFICE

In October 2009, Xerox Corporation introduced the new Xerox Phaser 6140N color printer. This latest color printer offers superior productivity and enhanced image quality for small to midsized businesses.

BERTL recently tested the Xerox Phaser 6140N, which has rated print speeds of up to 21 ppm in monochrome and 19 ppm in color. Maximum monthly print volume is 40,000 pages and maximum paper capacity of 501 pages.

The new Xerox Phaser 6140N is designed to be easy on the environment and offers the following features:

- Energy Star compliant
- Packaging for both the printer and consumables creates up to 80% less waste than other comparable printers, measured by weight, over the life of the product due to the small, toner-only cartridges and minimal cartridge packaging
- The Run Black feature allows the printer to continue running with black toner, even if any of the color toners needs to be replenished, ensuring users can maintain printing
- The Xerox Phaser 6140N also recognizes and automatically skips blank pages in a document, speeding up print time and reducing paper waste by up to 50 percent.
- High quality output with 600 x 600 x 4 dpi resolution
- An assortment of tools such as Adobe PostScript 3, PANTONE color-approved simulations and Xerox color-correction technology help manage color and ensure professional-looking color prints
- User-friendly installation software gets the Phaser 6140N out of the box and running smoothly on your network in minutes
- Powerful 400 MHz processor and 256 MB of RAM that is upgradeable to 1280 MB
- View job queues and check supply levels remotely with Xerox's CentreWare Internet Services
- Standard USB 2.0, 10/100Base-TX Ethernet and optional wireless network adapter
- The PrintingScout function tracks print jobs and provides immediate print-issue alerts and correction suggestions
- Advanced Security features include: IPSec, SNMPv3, Secure Print4, IP filtering and IPv6
- Versatile media handling and flexibility, with the ability to print on stock as heavy as 80lb cover (220 gsm) and sheets up to 8.5"x 14"
- The Xerox Phaser 6140N is part of Xerox Green World Alliance Recycling Program, where print cartridges can be returned to Xerox free of charge for recycling
- The Xerox Phaser 6140N comes standard with a one-year warranty

In the following test report, BERTL takes an in-depth look at the Xerox Phaser 6140N, testing and evaluating its productivity, image quality, workflow and ease-of-use.

Xerox Phaser 6140N - Features Summary	
List Price	$399.00
Imaging Technology	Color Laser
Standard Functions	Printing
Optional Functions	Duplexing and Extra Paper Trays
Maximum Monthly Duty Cycle	40,000
Recommend Monthly Volume	2,500
Mono Print Speed	21 PPM
Color Print Speed	19 PPM
Mono First Page Out Time	12 seconds
Color First Page Out Time	13 seconds
Automatic Duplex	Yes (optional)

BERTL'S GALAXY STAR RATING

BERTL Galaxy© Star Rating
Xerox Phaser 6140N

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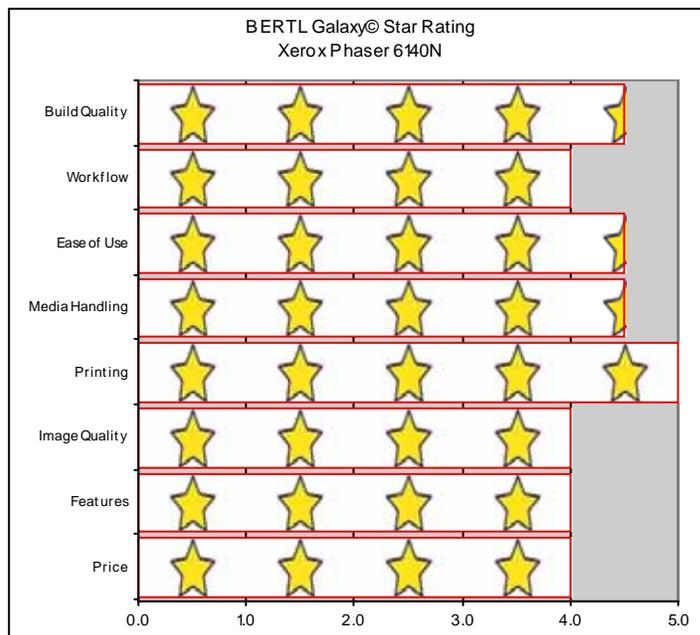
PRINT PRODUCTIVITY

Evaluating print productivity is not as simple as timing copy jobs. The printing process involves several steps and can be affected by a variety of factors along the way.

The document must first be spooled by the print driver into a PCL or PostScript file. The PCL or PostScript file is then sent to the printer where it is raster image processed (Ripped) into image data by the device processor. The image data is then sent to the marking engine and output as printed pages.

There are three obvious factors highlighted above (spool time, RIP time, and print engine speed), which can all make or break a device's overall productivity. Other factors that could affect productivity and print speed of the device are the use of other device functions such as scanning and faxing.

It is possible to time and compare these factors through the use of careful preparation, conditioning and testing. Following are charts that show printing performance when tested under controlled conditions.

DEVICE MEMORY

+ The standard printer memory for the Xerox Phaser 6140N is 256MB of RAM and can be expanded to 1280 MB.

+The Xerox Phaser 6140N comes equipped with a powerful network controller which has a processing speed of 400 MHz.

PRINT DRIVERS (PDLs)

+ The Xerox Phaser 6140N Page Description Languages (PDLs) includes an Adobe Postscript driver and a PCL6 driver in which both offer a bidirectional communication.

+Drivers support the following OS's: Windows® 2000/XP/Vista, Server 2003/2008, Xerox Global Print Driver, Xerox Mobile Express Driver, Linux: SUSE™, Red Hat®, TurboLinux 10 Desktop, Mac OS® version 10.3 and above.

PRINT RESOLUTIONS

+ The Xerox Phaser 6140N offers high print resolutions of up to 600 x 600 x 4 dpi.

PRINTING FEATURES

+The Xerox 6140 offers many printing features that include the following: Banner sheets, Booklet printing, Consumable life reporting, Covers, Fit-to-page, N-up, Overlays, Poster printing, PrintingScout™ Alert Notification, Run Black, Skip blank pages, Transparency separators, Watermarks, Xerox Installer (optional: Proof Print, RAM collation and Saved Print) and optional duplexing.

CONNECTIVITY

+ Connectivity options for the Xerox Phaser 6140N include: 10/100BaseTX Ethernet, IPv6, USB 2.0 and optional wireless (IEEE802.11a/b/g).

TESTING RESULTS

Network-Bandwidth/Print File Sizes			
	Native File Size	PCL6 Driver	PS Driver
1-page digital photo PDF	4.48 MB	5.11 MB	5.62 MB
4 page Passport Form PDF	0.08 MB	181 KB	380 KB
16-page Magazine in PDF	1.78 MB	10.0 MB	3.32 MB
22-page Excel Worksheet	0.12 MB	145 KB	3.79 MB
32-page Text-Based PowerPoint	0.23 MB	1.52 MB	2.60 MB
32-page Graphic Intensive PowerPoint	4.20 MB	10.9 MB	22.3 MB
38-page Form Word Document	0.91 MB	4.02 MB	14.9 MB
50-page Text-Based PDF	0.17 MB	2.31 MB	1.53 MB
50-page Text-Based PDF Duplex	*	*	*

*Optional duplexing (not tested).

Print Productivity in Monochrome (seconds)			
# of Originals	Mode	PCL6 Driver	Postscript Driver
50	Simplex	21.0	21.0
50	Duplex	*	*

*Optional duplexing (not tested).

Print Productivity in Color(seconds)			
# of Originals	Mode	PCL6 Driver	Postscript Driver
50	Simplex	18.6 ppm	17.2
50	Duplex	*	*

*Optional duplexing (not tested).

Job List	Media Size	Mode	Time to First Page (seconds)		Job Time (seconds)	
			PCL6	Postscript	PCL6	Postscript
1-page Digital photo print original	Letter	1:1	22.50	34.97	22.50	34.97
4-page Passport Form PDF	Letter	1:1	16.37	14.23	26.35	24.53
16-page Magazine PDF	Letter	1:1	23.18	17.49	71.13	65.22
22-page Excel Worksheet	Letter	1:1	45.77	49.12	110.16	109.50
32-page Text-Based PowerPoint	Letter	1:1	51.34	34.65	150.28	133.16
32-page Graphic Intensive PowerPoint	Letter	1:1	29.49	34.66	129.03	193.16
38-page Form Word Document	Letter	1:1	27.68	33.40	169.91	178.06
50-page Text-Based PDF	Letter	1:1	38.08	21.62	177.18	161.07
50-page Text-Based PDF (duplex)	Letter	1:2	22.50	34.97	22.50	34.97

**Print productivity is evaluated based on a text based letter sized 50 page PDF file.

WHAT WE LIKED

- Tested simplex monochrome network-print speed with the PCL and Postscript drivers were as fast as 21 ppm, matching Xerox's rated speed of 21 ppm.
- Tested simplex color network-print speed with the PCL drivers was as fast as 18.6 ppm.
- Tested simplex color network-print speed with the Postscript driver was as fast as 17.2 ppm.
- In BERTL's job stream test the PCL6 driver completed the stream job test in 12 minutes and 15 seconds, running at 21 ppm, which translates to an efficiency rate of 100%. Using the PostScript driver the efficiency rate was up to 98%.

IMAGE QUALITY

BERTL evaluates the output of several "test targets" in order to determine image quality. Following are descriptions of key elements of image quality. Note the numbered examples on each of the test targets shown in the right column.

Office Color Image Quality
1. **Density of Solid Areas -** Better contrast; more vivid overall images
2. **Line Work -** Better production of lines and text
3. **Halftones -** Better production of photographic and screened images
4. **Negative/Positive -** Better production of fine detail

Photographic Color Image Quality
5. **Flesh tones -** Better production of portraits
6. **Banding -** Better solid and dithered fill
7. **Low Contrast -** Better production of dark images
8. **Saturation -** Better production of bright colors
9. **Caste** – Better color fidelity
10. **Fine Detail** – Better reproduction of fine details

Density of Solid Areas*	
	Print Density
Black	1.23
Cyan	0.94
Magenta	0.93
Yellow	1.13

*Density is on a scale of 0 to 2.5, with 2.5 being the best possible.

Print Resolution*		
	Print Resolution	
	Vertical	Horizontal
Black	2.0	2.0
Cyan	2.0	2.0
Magenta	2.0	2.0
Yellow	2.0	2.0

*Line Pairs per Millimeter. For copy resolution, higher is better (range, 2.0-8.0); for printer resolution, lower is better (range, 1.0-5.0).

Print Halftones		
	Min. Gradation*	**Max. Gradation****
Black	10	100
Cyan	10	100
Magenta	10	100
Yellow	10	100

*Minimum gradation is on a scale of 10 – 100 percent in 10 percent increments. The best possible minimum gradation is 10 percent. **Maximum gradation is on a scale of 10 – 100 percent in 10 percent increments. The best possible maximum gradation is 100 percent.

BERTL uses ImageExpert printer test targets for the evaluation of printed image quality. BERTL technicians' measure image density and evaluate the device's ability to produce a full range of halftones and various sizes of negative/positive text, dots and lines in each primary printing color (CYMK).
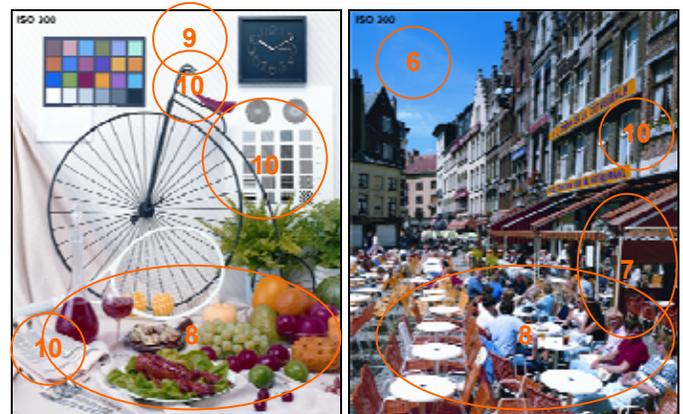
BERTL uses synthetic (photographic) test images obtained from **ISO International Standard 12640--Graphic Technology—Prepress digital data exchange—CYMK Standard Color Image Data (CYMK/SCID)** in order to evaluate the ability to print photographic images.

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Image Quality

IMAGE QUALITY

Negative/Positive Lines*				
Line Width (points)	Negative		Positive	
	Vertical	Horizontal	Vertical	Horizontal
1	√	√	√	√
2	√	√	√	√
3	√	√	√	√
4	√	√	√	√
5	√	√	√	√
6	√	√	√	√

A "√" mark indicates the device was able to print the line width correctly.
*Chart cells containing an "x" indicate that the printer was not able to print the line width correctly. Overall, the fewer "x's," the better the image quality. If no cells are marked with an "x," then the device was able to print all line widths correctly.

Negative/Positive Dots*	
Line Width (points)	% of Dots Printed
1 pixel Black	100
1 pixel Black Neg	100
1 pixel Cyan	100
1 pixel Magenta	100
1 pixel Yellow	100
2x2 pixel Black	100
2x2 pixel Black Neg	100
Checkerboard apparent?	No

*On a scale of 0 – 100%. The higher the percentage, the better.

Photo Quality	
	Ranking (1-5)*
Fleshtones	4.0
Banding	4.5
Low Contrast	4.5
Saturation	4.0
Caste	4.5
Fine Detail	4.5

*Based on a scale of 1 – 5, with 5 being the best.

WHAT WE LIKED

- High print resolutions up to 600 x 600 x 4 dpi.
- PANTONE color-approved simulations and Xerox color-correction technology help manage color and ensure professional-looking color prints.
- Excellent image quality due to Xerox's Emulsion Aggregate Toner demonstrates crisp text, good print resolutions, as well as accurate printing of fine lines and dots.
- Photographic prints were smooth and realistic.
- Business graphics were also good displaying smooth gradations.
- Black output produced by the Xerox Phaser 6140N was good. Text was bold, crisp and cleanly formed.
- Line art was also very well reproduced; circular lines were fully formed and closely spaced fine lines remain distinct.

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PROGRAMMING THE CONTROL PANEL

A control panel's ease of use—or lack of—can often have a significant effect on user productivity. The Xerox Phaser 6140N's control panel consists of a two line LCD screen and several hard keys. The LCD screen provides users with information and troubleshooting help. If an error or warning condition occurs, the control panel displays a message informing users of the problem. There is also a toner level display for quick, at-a-glance checking of current toner levels. Users can also initiate Power Save mode when the printer is idle by utilizing the sleep mode button.

PRINT DRIVERS

As with control panels and touch screens, print-driver design can vary enormously from manufacturer-to-manufacturer. Xerox has made it an easy procedure with their design of the PCL and Postscript drivers. The user interfaces are virtually the same to other Xerox device drivers, which will make it especially easy for Xerox users to quickly acclimate to it.

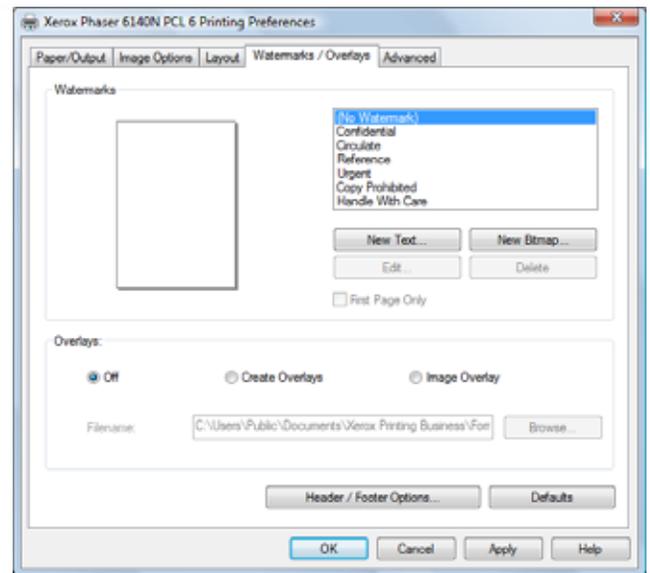| Print-Driver Checklist	
Do print drivers have identical user interfaces?	Yes
Are print drivers interfaces identical to other vendor models?	Yes
Bidirectional communication within print drivers?	Yes
Auto device configuration from within print driver?	Yes
Does print-driver installation require rebooting of the workstation?	No
Are print-driver deployment processes included?	Yes
Are print-driver deployment guidelines and procedures included?	Yes

PCL PRINT DRIVER
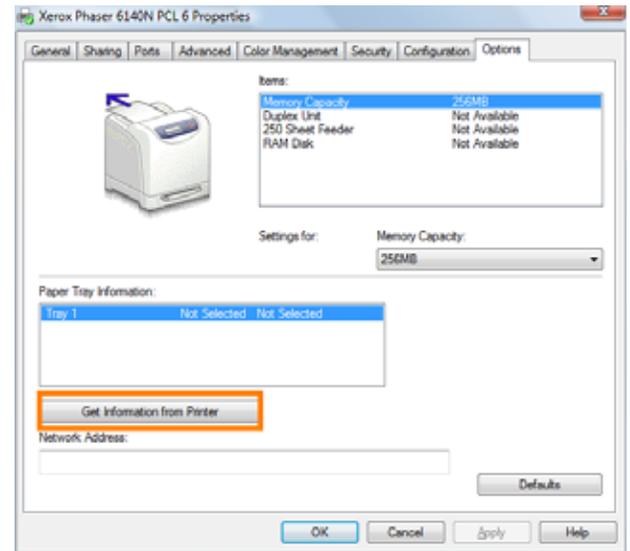
Administrators can specify system defaults and settings by accessing the driver's Printer Properties, which is accessed by launching the Printers and Faxes folder from the Microsoft Windows' Start menu. Administrators can also enable bi-directional communication, so that users can conveniently check device and consumable status from the print driver by selecting the "Get Information from Printer" button.
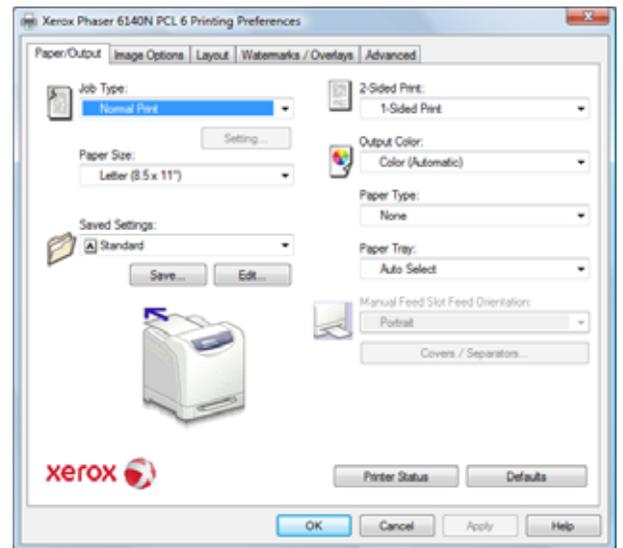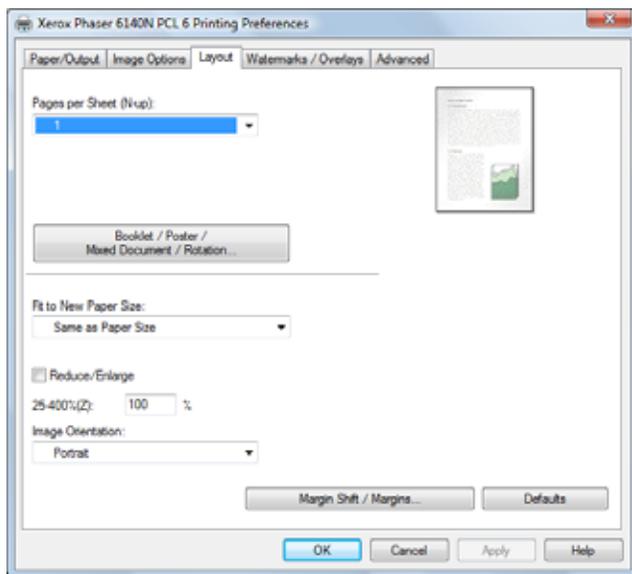

The PCL 6 driver's first tab, Paper/Output provides options for selecting the paper size, simplex/duplex, and output color. The Job Type drop-down menu provides options for proof printing, saving files to hard-drive memory and secure printing (the user is prompted to enter a pass code that they must enter at the control panel in order for the job to print).
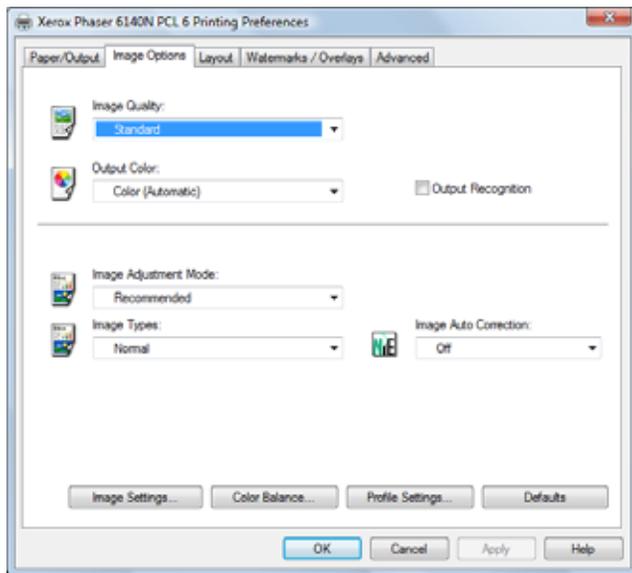
The Image Options tab contains items that enable users to select output as color or black and white, customize automatic color correction, and adjust colors in their job. User can also adjust image modes such as ICM, CMS and complementary color conversion.
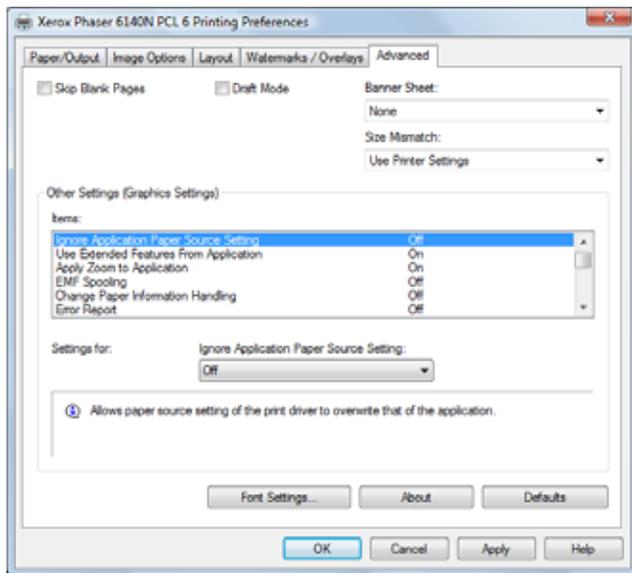

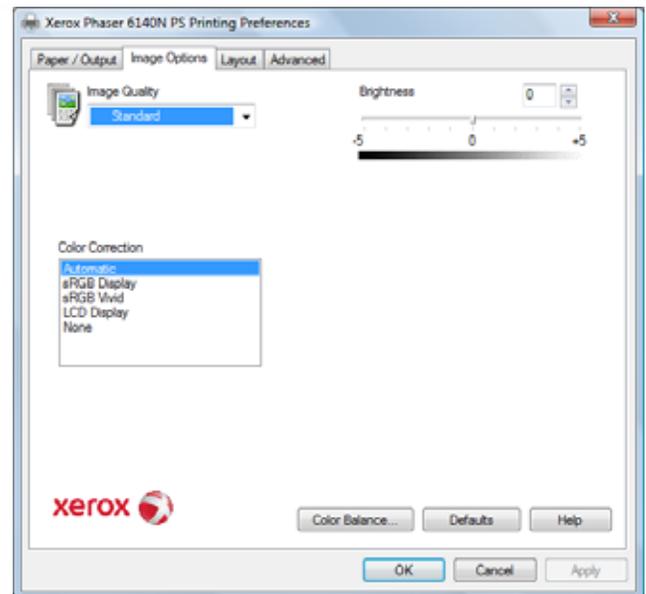The Layout tab offer users the ability to utilize N-up printing, create booklets and posters as well as reduce and enlarge.

Above and below: Users can create watermarks and overlays as well as modify headers and footers.
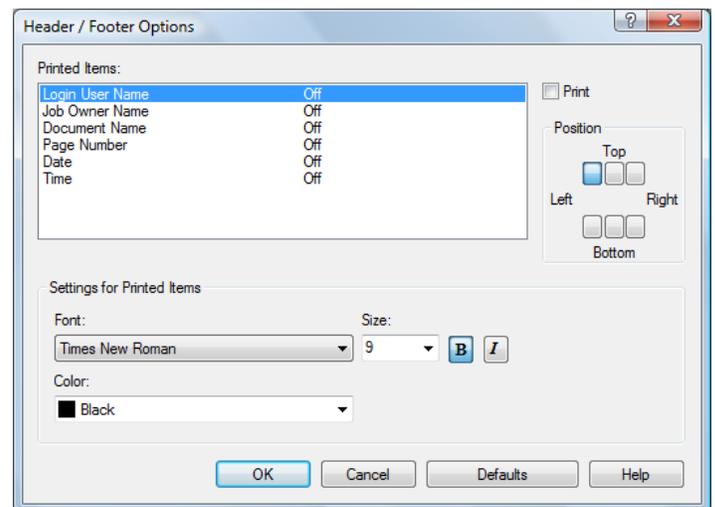
The Advanced tab offers many sophisticated features such as: skip black pages, draft mode, banner printing, size mismatch and etc.
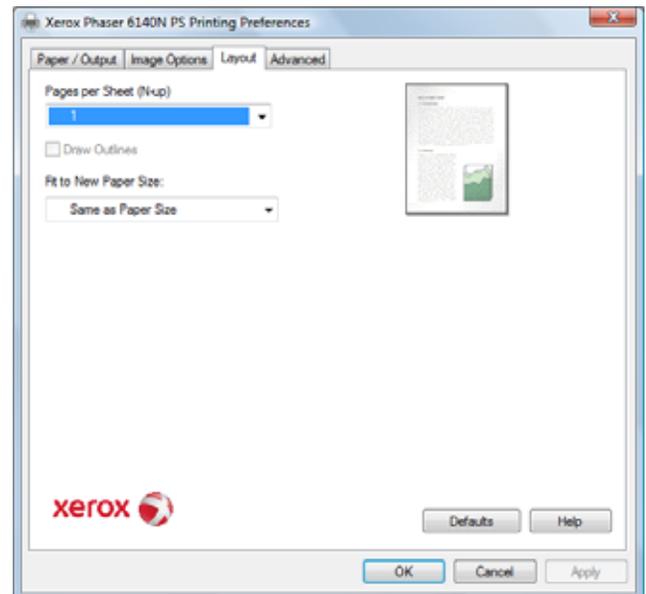
The Image Options tab enables users to modify color correction, adjust brightness and select different image quality settings to enhance output.
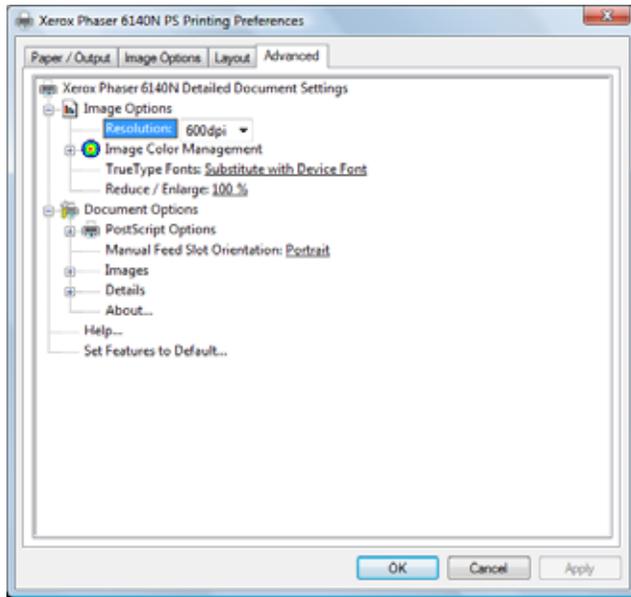
POSTSCRIPT PRINT DRIVER

The Layout tab offer users the ability to utilize N-up printing and select fit to paper size.
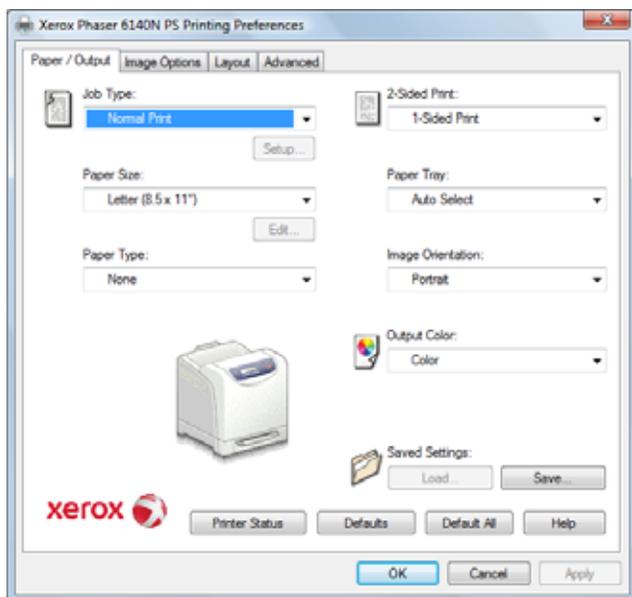
The Postscript driver's first tab, Paper/Output provides similar functions as the PCL6 driver such as: simplex/duplex, paper size, paper orientation, output color and job type.

Advanced tabs offer users the ability to change the following options: Color Management, TrueType Fonts, Reduce/Enlarge, Postscript Options and etc.

ROUTINE MAINTENANCE

Routine maintenance items are printer parts that have a limited life and require periodic replacement.
Xerox has a few items listed below that can be replaced by users:
• Fuser
• Feed roller kit
• Imaging unit

Note: Although the transfer belt unit is not considered a routine maintenance item, if it becomes damaged, users can order another one.

REPLACING TONER

In order to replace the Xerox Phaser 6140N's toner cartridge the user must first open the devices side cover by pulling this panel door open.

Above and next page: Once the door is open the user then unlocks the orange lever by sliding it to the right and pulling the toner cartridge out for replacement. Overall, BERTL found replacing the all four toner cartridges to be a simple process.

REPLACING FUSER UNIT

MISFEED ACCESS

The front misfeed area, feed roller kit and imaging unit can be accessed by lowering the transfer belt unit to clear any jams or replace rollers.

Users can access misfeed areas and replace consumables by opening the front cover and lowering the panel door.


Above and next column: In order to replace the fuser unit the users presses this gray lever and slides the unit out for replacement.

Misfeeds can be cleared in the fuser unit by pulling these two green levers down and removing any jammed paper.

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CLIENT UTILITIES AND DEVICE MANAGMENT

In order to take the best and most efficient advantage of a device and its capabilities, as well as ensure maximum uptime, clients need an efficient way to access and monitor the device. Xerox offers many features and options to help productivity for all users.
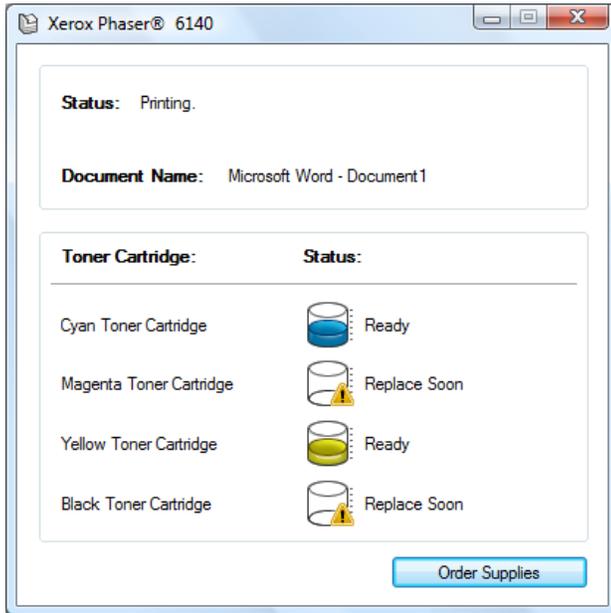

The PrintingScout utility automatically checks the printer status when users send a print job. If the printer is unable to print a job, PrintingScout automatically displays an alert on your computer screen to let you know that the printer needs attention.

Xerox's CentreWare Internet Services is a web-based solution that enables users to view device and consumable status, as well as device configuration.
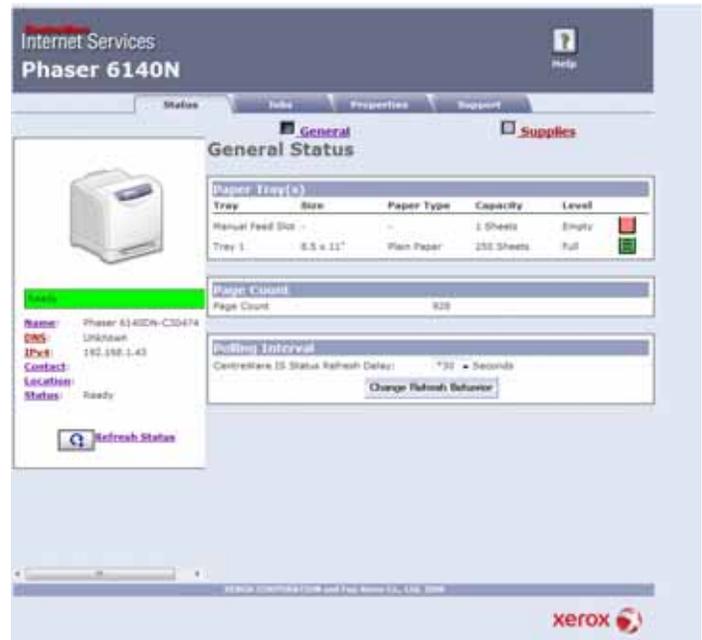
CentreWare Internet Services displays the status level of paper sources, installed paper sizes, as well as total number of pages printed.
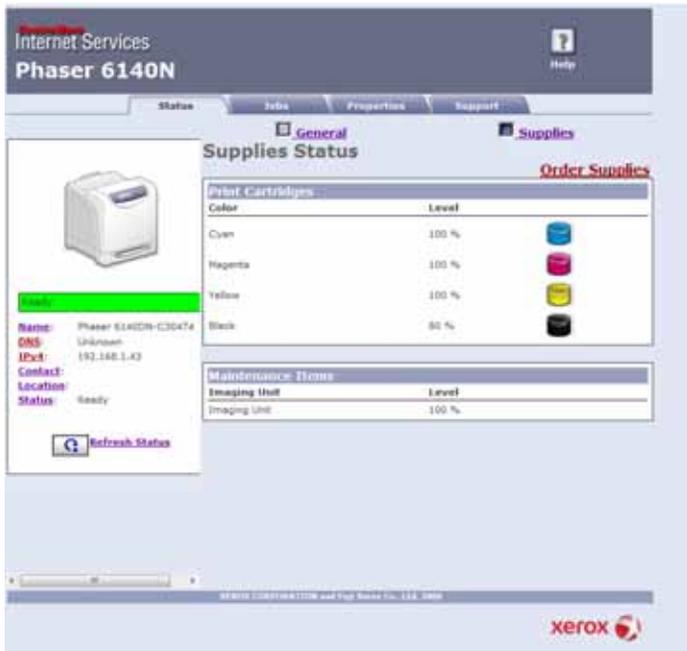
Users can view levels of print cartridges as well as levels of the imaging unit.

Authorized users can view and configure network settings from the printer home page.

CentreWare Internet Services provides a detailed job log that indicates jobs printed, the job's user, date and time the job was initiated and completed, paper size used and etc.

CentreWare Internet Services enables administrators to configure the system to automatically e-mail specified users alerting them when specified status conditions occur, such as when toner or a paper drawer is depleted.

The Online Support Assistant is a knowledge base that provides instructions and troubleshooting help to solve your printer problems. Users can find solutions for print-quality problems, media jams, software installation, and much more.

Xerox provides a very-easy-to-use utility for automated installation of the Xerox Phaser 6140N. Overall, BERTL found it easy to install the device.

WHAT WE LIKED

- The control panel's hard keys and LCD monitor are well-organized and clearly labeled.
- Both PCL and PostScript drivers are relatively easy to use and logically organized. Both drivers have virtually same exact user interface. This will enable users to quickly and easily switch between drivers and allow them to find the settings they need from one driver to another with ease.
- Print drivers feature bi-directional communication, so that users can check device, job and consumable status.
- Performing common tasks such as misfeeds and toner changing was extremely easy to accomplish.
- Xerox's CentreWare Internet Services is a very easy to use web-based solution that provides device, consumables and job status. It enables administrators to easily monitor and configure the system, as well as manage fleets of devices from any workstation on the network.
- CentreWare Internet Services provides automatic e-mail alerts when the system requires attention.
- The Online Support Assistant provides instructions and troubleshooting help to solve any problems with the printer.
- Xerox provides a very-easy-to-use utility for automated installation of the Xerox Phaser 6140N.
- Xerox's PrintingScout utility indicates device and consumable status, as well as the progress of active jobs and completed jobs.
- Security features include: IPSec, SNMPv3, Secure Print4, IP filtering and IPv6.

PAPER HANDLING

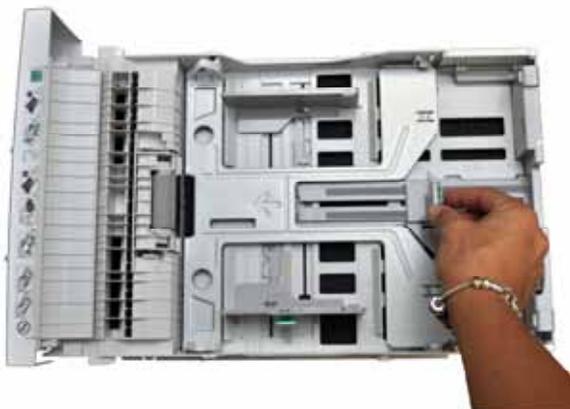| Media Handling Checklist	
Paper capacity	**Tray** (Manual feed slot): 1 sheets **Tray 1**: 250 sheets **Tray 2** (optional): 250 sheets
Paper size	**Tray** (Manual feed slot): 3 x 5 in. to 8.5 x 14 in. (76.2 x 127 mm to 216 x 356 mm) **Tray 1**: 3 x 5 in. to 8.5 x 14 in. (76.2 x 127 mm to 216 x 356 mm) **Tray 2** (optional): 5.8 x 8.3 in. to 8.5 x 14 in. (148 x 210 mm to 216 x 356 mm)
Paper Weights	**Manual feed slot and Tray 1:** 17 – 32 lb. bond to 40 – 80 lb. cover (65 – 220 gsm) **Tray 2 (optional):** 16 – 28 lb. bond (60 – 105 gsm) **Duplex Unit (optional):** 16 – 28 lb. bond (60 – 105 gsm)
Media Types	Plain paper, glossy, envelopes, labels, cardstock and postcards
Maximum paper capacity	501 sheets bond
Output capacity	150 sheets

The Xerox Phaser 6140N comes standard with one 250-sheet paper drawer and a single-sheet manual feed slot.

The single manual feed slot can be adjusted by sliding these levers into place.

WHAT WE LIKED

- The 250-sheet paper tray can easily be adjusted to accommodate different paper sizes.
- Output bin can hold up to 150 sheets.
- Versatile media handling and flexibility, with the ability to print on stock as heavy as 80lbs cover (220 gsm bond) and sheets up to 8.5"x 14".
- Maximum paper capacity up to 501 pages with optional paper drawer.

Above and below: In order to adjust the paper drawer to accommodate different paper sizes the user squeezes and slides these gray guides into place. BERTL found it easy to adjust the paper drawer.

The Xerox Phaser 6140N's output bin can hold up to 150 sheets.

Summary

Xerox has done an amazing job with the design of the Phaser 6140N. This compact desktop printer offers high print productivity, good image quality and excellent ease of use. During BERTL's extensive testing of the Xerox Phaser 6140N, this office-color laser-based printer for small to mid-size workgroups performed remarkably well. BERTL observed the following when testing the Xerox Phaser 6140N color printer:

- Tested simplex monochrome network-print speed with the PCL and Postscript drivers were as fast as 21 ppm, matching Xerox's rated speed of 21 ppm.
- Tested simplex color network-print speed with the PCL drivers was as fast as 18.6 ppm.
- Tested simplex color network-print speed with the Postscript driver was as fast as 17.2 ppm.
- Image quality produced from the Xerox Phaser 6140N was excellent due to Xerox's EA toner that is engineered using particles for uniform size and shape. Xerox also is Pantone Color approved which ensures results that always portray the user's expectations.
- Ease of maintenance is effortless, replacing toner, easy misfeed access, and paper loading.
- User-friendly installation software gets the Xerox Phaser 6140N out of the box and running smoothly on your network in minutes.
- The Xerox Phaser 6140N's control panel consists of a two line LCD screen and several hard keys. The LCD screen provides users with information and troubleshooting help.
- The Xerox Phaser 6140N's small footprint allows for easy integration within users work space, whether on your desk or in a central location.
- The PrintingScout™ function tracks print jobs and provides immediate print-issue alerts and correction suggestions.
- Also contributing to the Xerox Phaser 6140N's overall productivity is Xerox's CentreWare internet services, which provides detailed device and consumable status, and provides network administrators with the ability to configure and manage both the network and device settings.
- Convenient email alerts notify network administrators of common hang-ups, such as low toner levels, to help maintain an uninterrupted workflow.
- Security features include: IPSec, SNMPv3, Secure Print4, IP filtering and IPv6.
- Versatile media handling and flexibility, with the ability to print on stock as heavy as 80lbs cover (220 gsm bond) and sheets up to 8.5"x 14".
- Optional paper capacity of up to 501 sheets increases the time to refill for longer uninterrupted jobs.
- The Xerox Phaser 6140N has superior energy and supply-saving features, which include fast warm-up, first copy out times and optional two-sided printing. This printer also is a part of Xerox Green World Alliance Recycling Program, where print cartridges can be returned to Xerox free of charge for recycling.
- The Xerox Phaser 6140N comes standard with a one-year warranty.

Considering the Xerox Phaser 6140N outstanding overall performance in testing, great ease of use, and exceptional office-color image quality, BERTL awards the Xerox Phaser 6140N its Four and Half-Stars *Outstanding* rating and highly recommends the device for any customer that requires a compact and efficient A4 color laser printer.

OFFICE

About BERTL

The success of an organization depends on its ability to manage its information and assets. An effective workflow process requires the complex integration of information, devices, software, and people.

IT managers, office managers, and other knowledge management professionals need to know what digital imaging devices would best serve their specialized workflow processes.

BERTL's services are designed around this real-world framework, delivering business consumers the independent analysis and insight needed to make critical decisions about digital imaging's role in their organization.

Independent Analysis and Insight

BERTL's reports, comparative data, and strategic guides look at digital imaging through the eyes of the business user. The research examines not only the technical features, but also vertical market applications, and business benefits. The impact on worker productivity is a primary concern.

BERTL is 100 percent independent. It receives no funding from manufacturers and all product evaluations and reports are published at BERTL's own expense for its subscribers. Business users worldwide trust BERTL for objective, unbiased analysis of digital imaging systems.

BERTL Services

Reports and Star Ratings

BERTL analysts provide detailed reports on the technical and practical benefits of thousands of color and monochrome workgroup, office, graphic arts, and production devices.

Product Specifications

DataCheck Gen II provides the most current competitive data on printers, copiers, MFPs, fax devices, wide format printers, scanners, and more.

News, Interviews, and Analysis

The ITchat online magazine provides insight into the dynamics and trends of the digital imaging marketplace through interviews, feature articles, and software reviews.

BERTL Awards

BERTL analysts recognize the leading devices and software solutions in the annual BERTL's Best awards. BERTL also honors the performance of manufacturers in the annual Readers' Choice selections.

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