**KEYPOINT INTELLIGENCE**
*Buyers Lab*

## Lab Test Report
A Comprehensive Keypoint Intelligence Laboratory Evaluation

BUYERS LABORATORY
2018
BLI
HIGHLY RECOMMENDED
LAB TESTED

# KYOCERA ECOSYS P2040dw
40 PPM Monochrome Laser Printer

| | |
|---|---|
| **Reliability** | **Excellent** |
| **Image Quality** | **Very Good** |
| Print Quality | Very Good |
| **Usability** | **Very Good** |
| Serviceability/Management | Very Good |
| Walk-up Experience | Very Good |
| Workstation Experience | Very Good |
| **Mobility** | **Not Rated** |
| **Security** | **Not Rated** |
| **Features** | **Good** |
| **Speed** | **Very Good** |
| Print Speed | Very Good |
| **Power Consumption** | **Not Rated** |

JANUARY
**2018**

# OUR TAKE

The 40-ppm KYOCERA ECOSYS P2040dw is a robust device that offers small-size workgroups a strong performance and competitive feature set. The unit proved to be highly reliable, being based on a print engine that gave a flawless performance over the course of BLI's two-month, 25,000-impression durability test. With a compact footprint that's ideal for environments where space is at a premium, this model includes a USB port that allows for direct printing of files from a flash drive. Support for workers on the move is provided by Mopria Print Service, Google Cloud Print 2.0, KYOCERA Mobile Print and Apple AirPrint. The unit is very easy to use at the desktop via the universal KX 7.x print driver and also easy to manage using KYOCERA NetViewer, which can assign specific alerts to different recipients, and KYOCERA Command Center RX, which provides administrators with details about device and consumables status. Its straightforward interface makes walk-up activity simple as well. Output produced by the ECOSYS P2040dw was impressive overall, with crisp and cleanly formed text, very good halftone range and above-average production of closely spaced fine lines and circles. KYOCERA employs long-life drums to further minimize the unit's environmental impact and reduce TCO and downtime. BLI highly recommends the KYOCERA ECOSYS P2040dw.

## KYOCERA ECOSYS P2040dw Fast Facts*

| | |
|---|---|
| Max Monthly Duty Cycle | 50,000 impressions |
| Manufacturer's Recommended Monthly Volume | 3,333 impressions |
| Rated Speed | 40 ppm |
| Std Paper Source(s) | 2 drawers |
| Std Paper Capacity | 350 sheets |
| Paper Weights | 60 to 163 gsm |
| Bypass/Paper Weights | 100-sheet/60 to 220 gsm |
| Max Paper Sources/Capacity | 4/850 sheets |
| System Memory (Std/Max) | 256-MB/256-MB |
| Hard Drive | |
| PDL/PCL | PCL 5e/6, KPDL PostScript 3 Emulation, XPS |
| At time of publication | |

**Test Duration:** Two months, including a 25,000-impression durability test of its P2640dw sister model which uses the same engine. More information on the KYOCERA ECOSYS P2040dw is available through bliQ (www.buyerslab.com/bliQ).

*Reliability is based on the KYOCERA ECOSYS M2640idw, which uses the same engine.

## BENEFITS

Perfect reliability, simple routine maintenance procedures, and strong ease of use increase uptime

Excellent value proposition based on performance and features

High-quality output should more than meet the needs for general office environments

Flexible mobile print support including KYOCERA Mobile Print, Google Cloud Print and Apple AirPrint

Compact footprint makes the device ideal for office environments with limited space

Graphical and easy-to-use universal KX 7.x driver simplifies programming jobs and makes it easy to swap between PCL and PostScript

RAM Disk feature treats RAM like a hard disk to provide secure storage at no extra cost

KYOCERA Net Viewer provides alerts to different recipients for specific events, either on a device-by-device basis or for an entire group of devices; KYOCERA Command Center RX provides users with detailed feedback on consumables

## ADVANTAGES

Fast first-page-out times for Word, PowerPoint and PDF files

Longer-life consumables means minimized environmental impact and fewer user interventions

Accommodates above-average paper weights through the bypass tray

## LIMITATIONS

Memory capacity is smaller than average and non-upgradeable

# RELIABILITY

**Excellent**

The unit is certified highly reliable by BLI, being based on an engine that completed a 25,000-impression durability test with no misfeeds recorded or service required.

The maintenance kit, which includes the drums and developer units, is rated for 100,000 impressions (coinciding with the PM schedule), which is far higher than rival models in this class.

| | Meter Count (Impressions) |
|---|---|
| Starting Meter Count | 0 |
| Ending Meter Count | 25,000 |
| Total Misfeeds/Misfeed Rate | 0/Not applicable |
| Service Calls | 0 |

# IMAGE QUALITY

**Very Good**

| Text | Very Good |
|---|---|
| Line Art | Very Good |
| Halftone Pattern | Very Good |
| Halftone Range | Very Good |
| Solids | Very Good |

Characters in text were cleanly formed, with above average darkness and sharpness.

Vertical and horizontal lines were smooth, circles were fully formed and diagonal lines showed no evidence of stair-stepping. Closely spaced fine lines were of average distinction and line weight consistency was above average.

An average amount of toner overspray was visible in text and line art when output was viewed under magnification, but none could be seen without magnification.

Halftones were visible from the 10 to 100 percent dot-fill levels, with distinct transitions between all levels.

Halftone pattern wasn't grainy, but displayed a minimal amount of banding.

Darkness of solids was above average, as was consistency of coverage.

## PRINT QUALITY

Very Good

### PRINT DENSITY

| KYOCERA ECOSYS P2040dw | 1.36 to 1.39 |
|---|---|
| Average for devices in this class tested to date | 1.12 to 1.69 |

Measurements are based on four readings corresponding to four different solid black locations on output. The higher the density reading, the darker the image.

### PRINT DENSITY AVERAGE

| KYOCERA ECOSYS P2040dw | 1.38 |
|---|---|
| Devices in this class tested to date | 1.45 |

The higher the density reading, the darker the image.

### HALFTONE RANGE

| KYOCERA ECOSYS P2040dw | 10% to 100% |
|---|---|
| Halftone increments on test original | 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100% |

The halftone range test original consists of 10 blocks of increasing dot-fill levels.
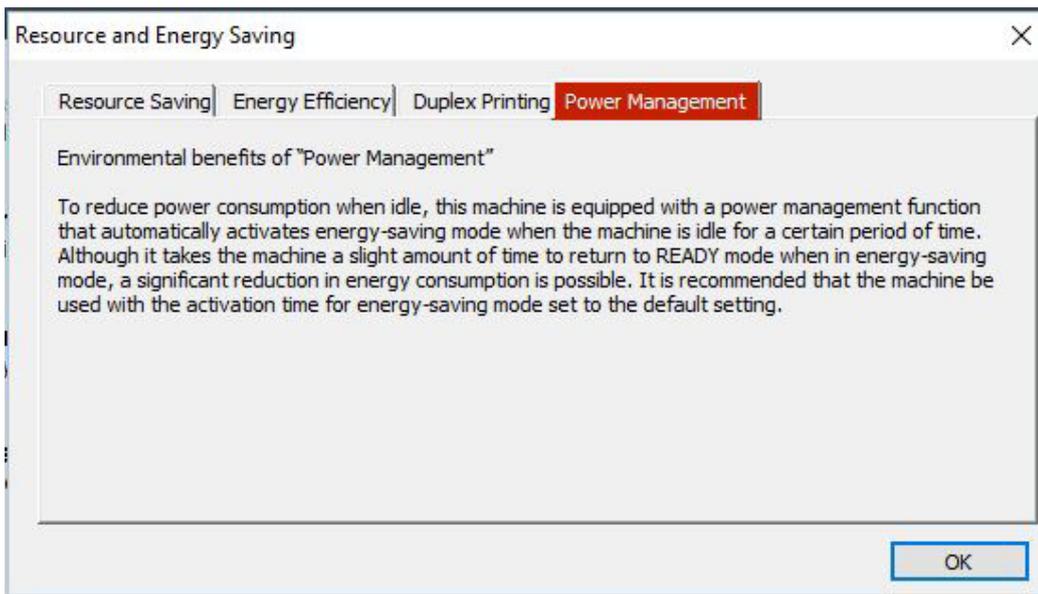
# USABILITY

Very Good

## SERVICEABILITY/MANAGEMENT

Very Good

Set up of the unit is simple, as it ships fully assembled allowing users to be up and running in a few minutes. Two people can easily lift the ECOSYS P2040dw out of its box to place it in the desired location. Packaging is not excessive. A starter cartridge with a rated yield of 3,600 impressions is packed together with the unit and needs to be installed, but no packing strips have to be removed.

KYOCERA's Product Library DVD contains the administrative utility suite, which includes KYOCERA Net Viewer, Job Status Monitor and KYOCERA Command Center RX, the embedded web server, as well as the drivers and documentation. The disc auto-runs and detects available KYOCERA devices on the network (either icon driven or as a list). After selecting the device with the Express Install option, just five clicks are required to install the KX driver, Status Monitor, Fonts and an Uninstall utility. The port is created automatically. Users should be up and running in minutes.

When the Product Library DVD is inserted, administrators are notified about the best means of ensuring environmental best practice, including power management options (see above), the use of recycled media and duplex printing.
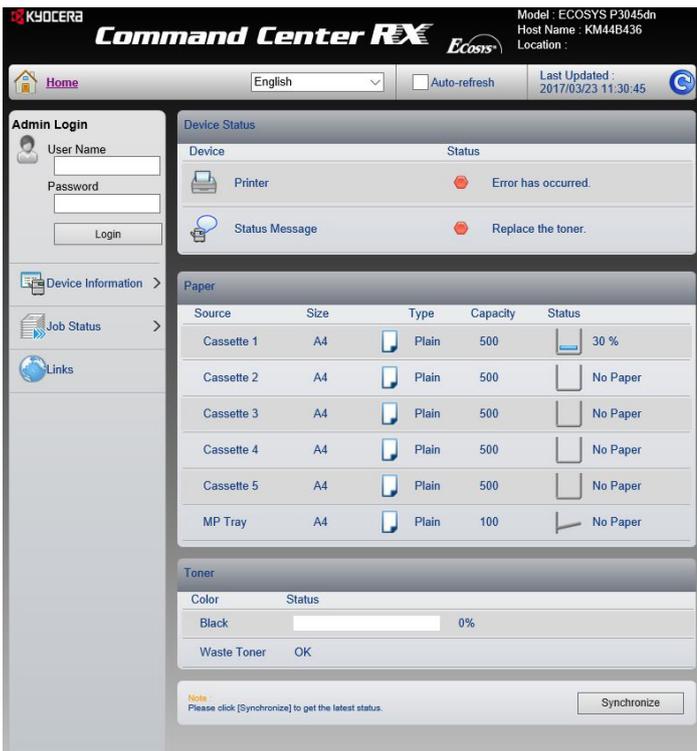
> KYOCERA Net Viewer allows administrators to clone device settings from one device to another, plus they can deploy drivers to multiple workstations on the network, so that they don't have to be installed on each machine individually.

> Net Admin is a unified solution for network device management for KYOCERA and third-party devices. Via Net Admin, administrators can view page counts and device status, as well as view and configure alerts for groups of devices on the network. Administrators can also access detailed information on individual devices such as the amount of toner remaining, configuration settings and event logs.

> Net Admin supports a map view that allows each device to be dragged and dropped to its specific location, allowing faster navigation for technical support.

> Net Viewer allows administrators to create groups of products based on reporting or error notification requirements. Within a "report group", an administrator can receive email reports outlining a wide variety of device statistics, including printed page volumes and consumable levels, at time intervals of their choice.

> Users can expect to change consumables as frequently as they would with competitive models tested to date, according to BLI's calculations.

Command Center RX provides administrators with information about the unit and lets them handle tasks such as changing device settings, viewing device status, and monitoring toner and paper supplies. It also allows administrators to configure email alerts that can be sent to up to three recipients for error conditions, including paper jam, cover open and add toner/paper



Misfeed access is either at the front (shown above) or at the rear of the device. If accessed at the front, the drum unit needs to be removed, but the surface of the drum is not exposed to any risk of damage during removal.
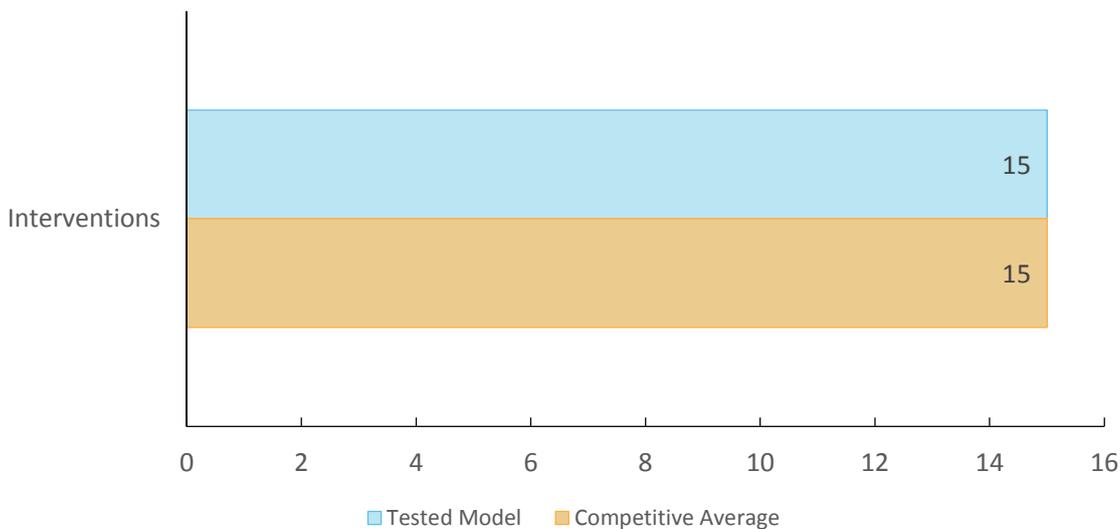


BLI technicians noted that loading paper trays is easy, with sliding paper guides, which move in sync. As is typical of models in this class, paper sizes must be confirmed on the LCD screen.

Procedures for replacing toner are easy. Although it can't be replaced while the unit is running, the cartridge is accessible from the front and lifts out easily, after a blue lever on the left has been released.

## Estimated User Interventions (Over 36 Months)



Interventions
- Tested Model: 15
- Competitive Average: 15

☐ Tested Model  ☐ Competitive Average

User interventions are calculated based on manufacturer's rated toner yields (in accordance with ISO/IEC 19752), as well as the manufacturer's rated yields for other consumables (drums, developer units, waste containers, etc.). BLI calculates the total number of supplies and maintenance parts that would be required to output 5,000 pages per month over 36 months. Each individual cartridge or other consumable is counted as one intervention. Long-life maintenance parts, such as fuser kits and rollers, and paper supply replenishments, aren't included in BLI's calculations. Depicted scenario is for illustrative purposes only. The actual number of interventions over three years will vary based on a number of factors, including (but not limited to) page coverage, run lengths, usage patterns, periods of inactivity and calibrations performed.
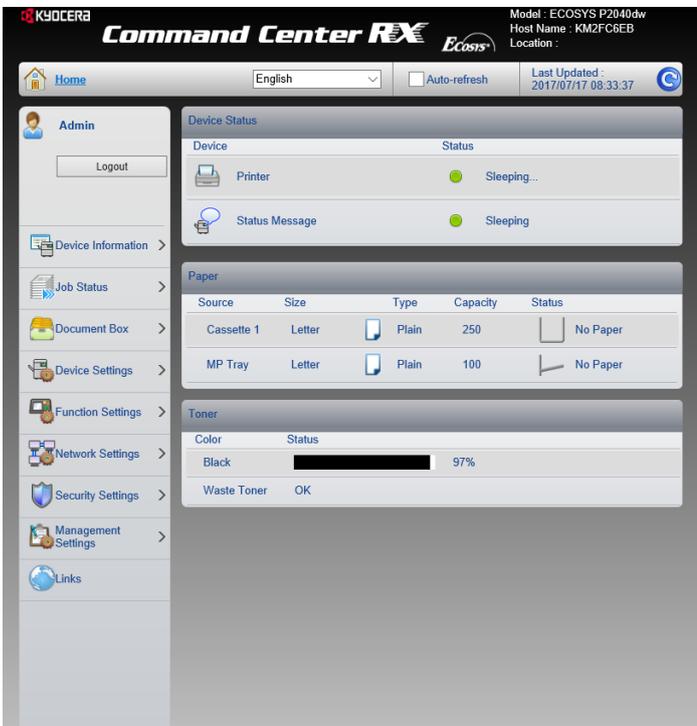
## WALK-UP EXPERIENCE

**Very Good**

Print from USB is standard; the port is located on the front of the unit. The USB flash drive is auto-discovered; users can browse folders to select files—PDF, JPEG, XPS or TIFF—to output.



The KYOCERA ECOSYS P2040dw has a very simple, intuitive control panel design with a small LCD display, and up/down and left/right keys for menu navigation.
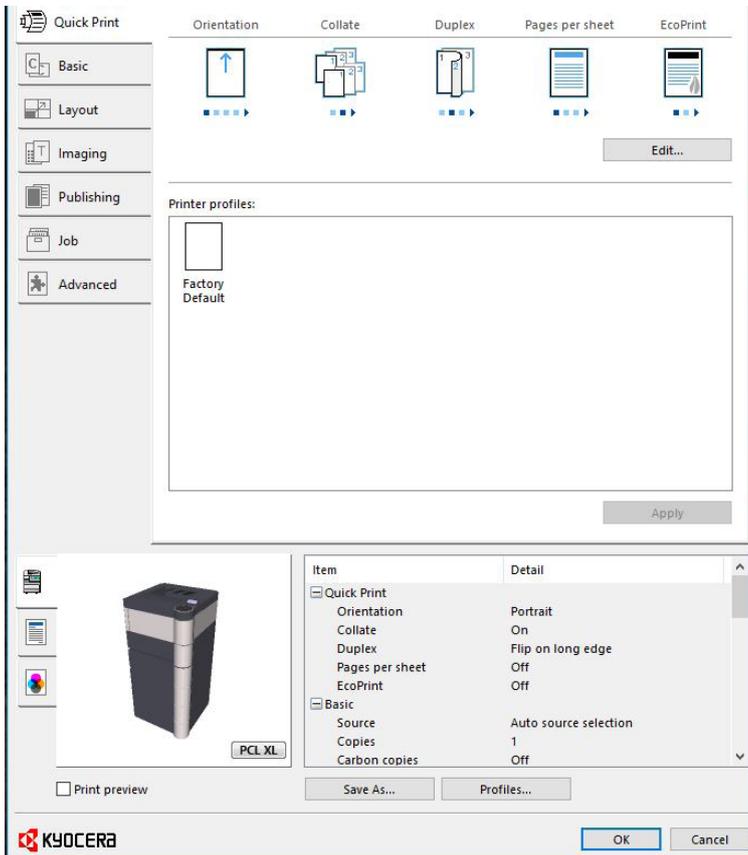
## WORKSTATION EXPERIENCE

**Very Good**



Command Center RX provides users at the desktop with a good level of feedback regarding the P2040dw, including device status, paper size, remaining paper and toner supplies.

The pop-up Job Status Monitor utility, which can be placed on the desktop via the driver an icon representing the device, provides toner and device status information, as well as audible alerts and print job completion notification. Device status (such as add paper, add toner, sleep, toner low, not connected, paper jam and cover open) is displayed graphically. However, the messages appear on all PCs that have the utility actively running, which could be distracting to users who may not care if the device is out of toner if they aren't actively or imminently printing to it. The utility also provides a link to the web page and can be placed anywhere on the screen and enlarged and adjusted for various degrees of opacity.

KYOCERA Net Direct Print, a software utility, is also included on the Library DVD that enables direct printing of PDF, PostScript, PRN and PRESCRIBE files without having the respective applications installed on the PC. Using this utility, users can send multiple files at one time and alter settings such as quantity, duplexing, N-up printing and resolution. Users can also set up print profiles that further simplify the submission process and are ideal for users operating the device as a short run print-on-demand resource.



All features required by typical users are available on the Quick Print screen of the driver, and its layout is clear and intuitive.

The unit comes with KYOCERA's universal KX 7.x driver for various Windows operating systems, as well as Mac OS X 10.5 or later. Other supported environments include UNIX and Linux. The driver combines PCL XL (PCL 6 emulation), PCL 5e and KPDL (the company's PostScript emulation) into one, which uses less network bandwidth than installing separate drivers.

KYOCERA's KPDL (PostScript) and PCL XL drivers have an identical interface, and users can switch between the PDL settings from the Printing Preferences dialog box. Eco Print lets users reduce the amount of toner used per job and can be set as the default setting.

The KX 7.x driver enables users to configure settings from the Printing Preferences dialog box with a clickable button that opens up the PDL Settings dialog and displays the current user-selected setting: KPDL, PCL XL, or PCL 5c. UI settings that were previously hidden such as the Security Watermark button are now shown but disabled if they are not supported by the PDL currently selected. Note that on client PCs in a client-server environment, users with administrative privileges can change the PDL from the Properties > Device Settings menu.

File size remains the same when printing multiple sets, regardless of whether "collate" is selected from the properties screen of the driver or from the print screen within an application.

The PCL XL and KPDL drivers feature PRESCRIBE—a page design and control language—which enables graphics, logos and forms, including multi-part forms, to be created independently of the system and saved and updated on the device memory to allow for printing on demand from the desktop.

# MOBILITY

**Not Rated**

The device is Mopria-certified with a standard wireless interface. Mobile printing is supported via AirPrint, Google Cloud Print and KYOCERA Mobile Print. A USB host port supports direct printing of a variety of file formats including PDF, JPEG, TIFF, and XPS.

# SECURITY

**Not Rated**

## SECURITY FEATURES

| AUTHENTICATION | |
|---|---|
| 802.1x wireless | Standard |
| SMTP | Standard |
| Biometric | No |
| ID Card | Optional |
| HID | Yes |
| Common Access | INA |
| Other | PaSoRi, RFIDEAS, ELATEC, Omnikey |
| Registered department or user ID codes | Standard |
| Number | 100 |
| **HARD DRIVE** | |
| Encryption | NA |
| Maximum level | NA |
| Overwrite | NA |
| Method | NA |
| Maximum number after a job | NA |
| Maximum number at end of lease | NA |
| Lock | NA |
| Removable | NA |
| Password-protected mailboxes | NA |
| Data auto-deletion in mailboxes | NA |
| **ACCESS CONTROL** | |
| Restrict colour | Standard |
| Control panel lock/disablement | Standard |
| Restrict USB port | Standard |
| Restrict direct printing | Standard |
| Restrict other | Any function using User ID |
| **JOB TRACKING** | |
| Job logs | Standard |
| Digital signature | No |
| Verify document came from device | NA |
| Verify document came from specific user | NA |

| JOB PROTECTION | |
|---|---|
| Encrypted secure print | Standard |
| Secure print | Standard |
| Unauthorised scan/copy protection block (watermark) | Standard |
| Compatible with same-brand devices | Yes |
| Compatible with third-party devices | No |
| **NETWORK SECURITY/PROTOCOLS** | |
| Protocol disablement | Standard |
| Port disablement | Standard |
| IP address filtering | Standard |
| MAC address filtering | No |
| HTTPS | Standard |
| Self-signed certificate | Yes |
| Certificate signing request | Yes |
| IPsec | Standard |
| IPv6 | Standard |
| Secure Sockets Layer (SSL) | Standard |
| S/MIME encryption | INA |
| SNMPv3 support | Standard |
| Transport Layer Security (TLS) | Standard |
| Trusted Platform Module (TPM) | INA |
| **CERTIFICATIONS** | |
| Common Criteria | No |
| EAL level | NA |
| Capabilities certified | NA |
| FIPS 140-2 | No |
| Level | NA |
| IEEE 2600 | No |
| **OTHER** | |
| Administrator password length | Up to 64 alphanumeric characters (UTF-8) |
| Password-protected web server | Yes |
| Additional features | NA |
| Third-party features | NA |

INA: The vendor declined to provide this information
NA: Not applicable

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# FEATURES

**Good**

Automatic duplexing is supported.

The ECOSYS P2040dw has a below average 350-sheet standard paper capacity, while its maximum paper capacity of 850 sheets is also below average.

The 100-sheet bypass tray handles up to 220 gsm media, which is heavier media than accommodated by most of its peers.

Standard output capacity is 250 sheets.

The unit's standard and maximum memory capacity of 256 MB memory are below average for models in its class.

KYOCERA's RAM Disk feature allows a portion of the device's RAM to be treated like a hard disk to facilitate secure job storage without incurring the extra expense of a hard drive. As RAM is volatile memory it can only retain data while connected to a power supply or a device, so users need not be concerned about confidentiality or data security.
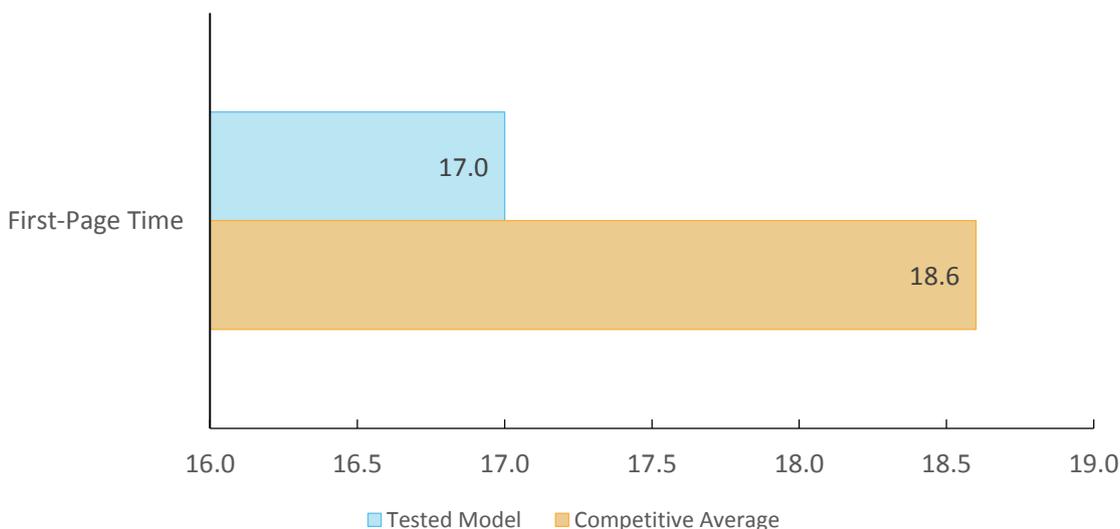
# SPEED
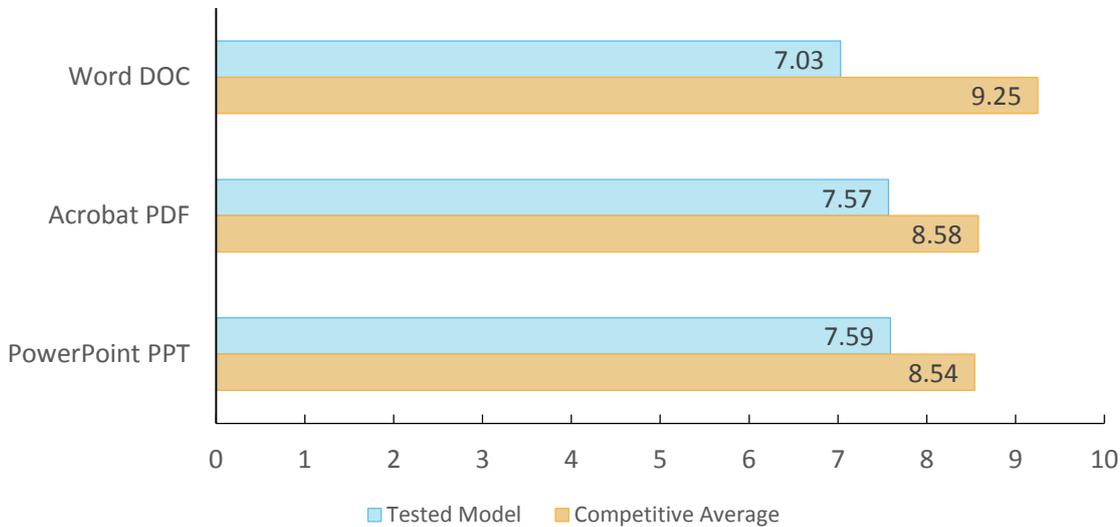
**Very Good**

## PRINT SPEED

**Very Good**

While performance in some tests was competitive, the P2040dw was faster than average when printing sets of long or short documents and also when printing single-page files from ready mode.

## First-Page Print Time From Overnight Sleep (in Seconds)

| | |
|---|---|
| First-Page Time | 17.0 (Tested Model) |
| | 18.6 (Competitive Average) |

16.0   16.5   17.0   17.5   18.0   18.5   19.0

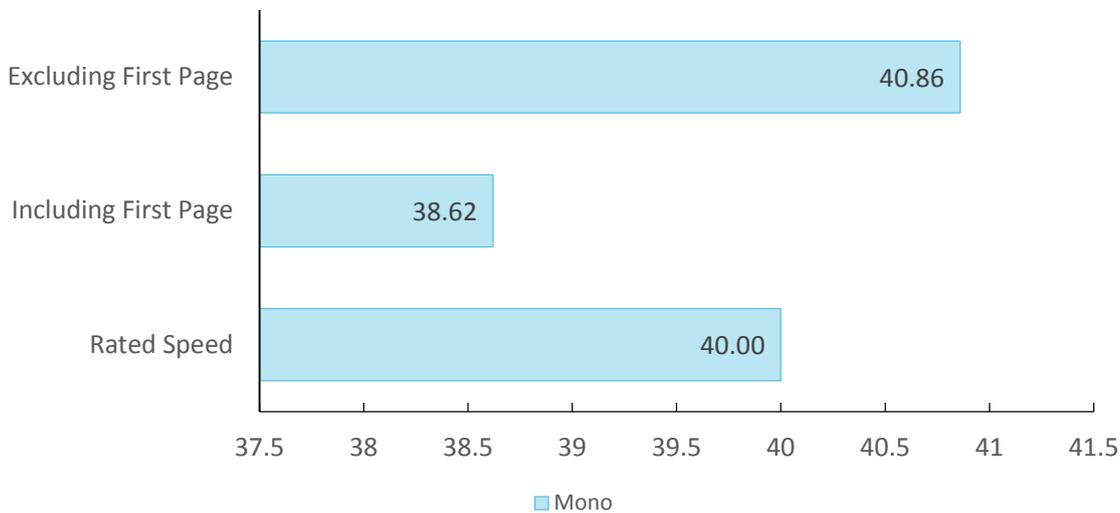☐ Tested Model   ☐ Competitive Average

Device sits idle overnight; a single-page black Word document is sent to the device; first-print time indicates the time it took to warm up, process, image and deliver the test document to the output tray.

## First-Page Print Time From Ready Mode  by File Type (in Seconds)

Word DOC — Tested Model: 7.03 | Competitive Average: 9.25

Acrobat PDF — Tested Model: 7.57 | Competitive Average: 8.58

PowerPoint PPT — Tested Model: 7.59 | Competitive Average: 8.54

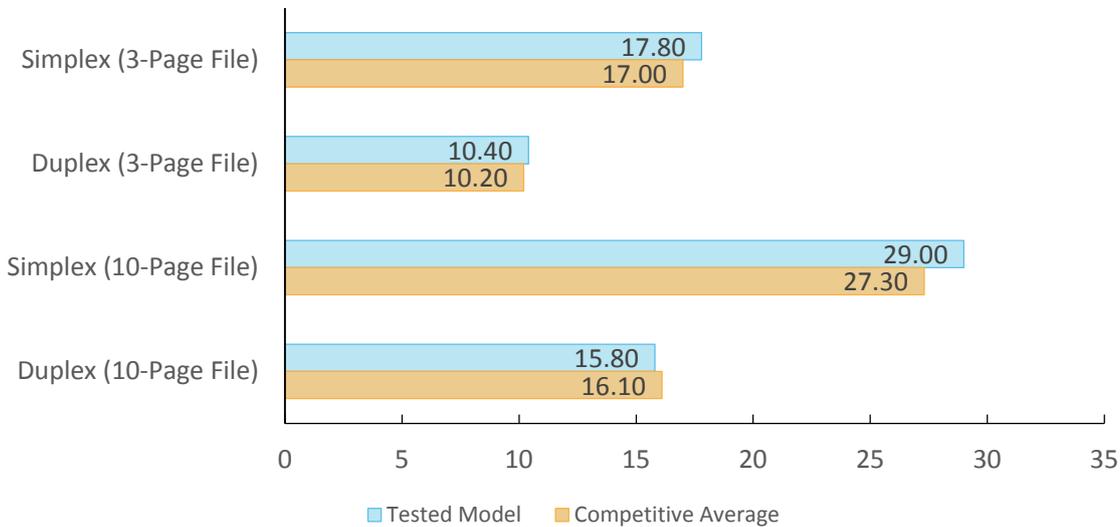Legend: ■ Tested Model  ■ Competitive Average

First-print time indicates the time it took to process, image and deliver a single-page document to the output tray. The unit's print speeds were tested at the default 600 dpi using the PCL driver.

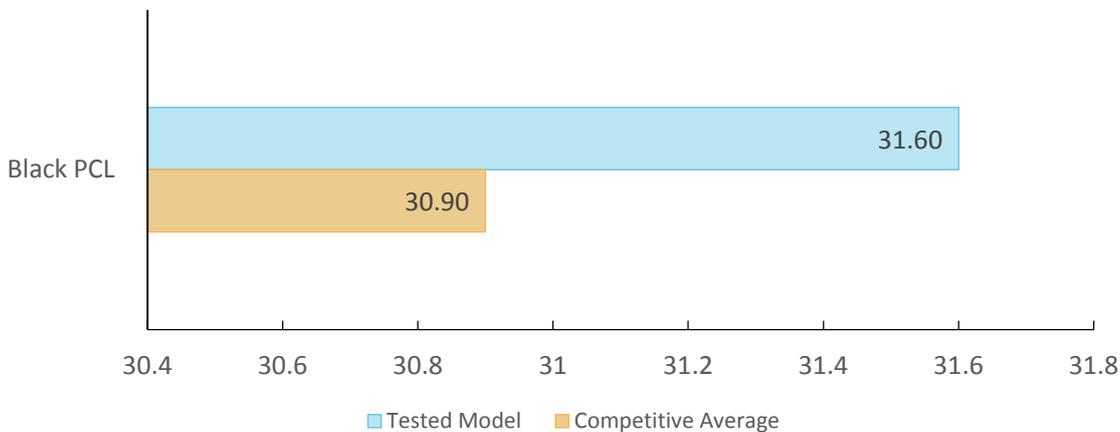## BLI's Tested Print Speed (in PPM)

Excluding First Page: 40.86

Including First Page: 38.62

Rated Speed: 40.00

Legend: ■ Mono

## First-Set Print Speed (Single Set; in PPM)



Simplex (3-Page File): Tested Model 17.80, Competitive Average 17.00
Duplex (3-Page File): Tested Model 10.40, Competitive Average 10.20
Simplex (10-Page File): Tested Model 29.00, Competitive Average 27.30
Duplex (10-Page File): Tested Model 15.80, Competitive Average 16.10
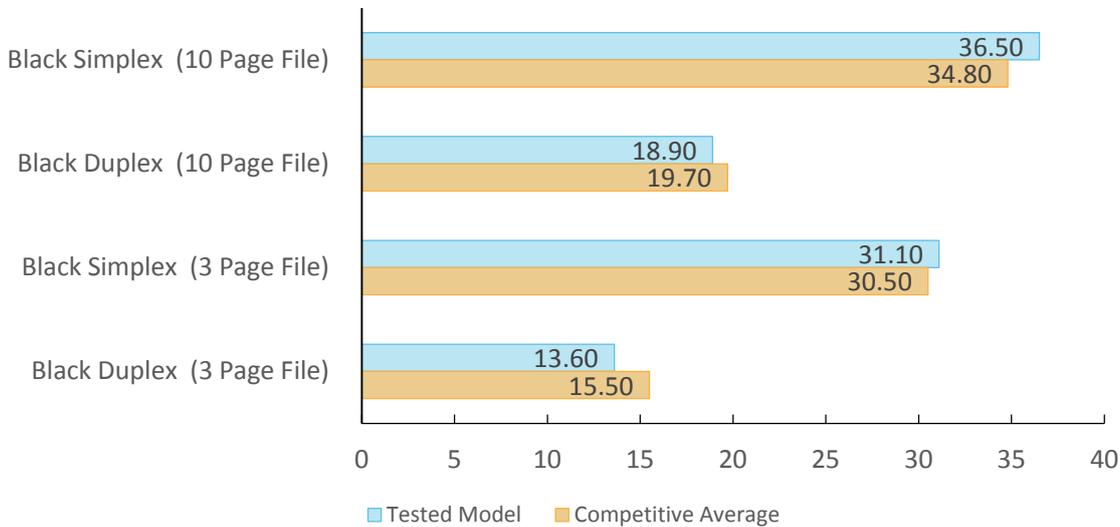
☐ Tested Model  ☐ Competitive Average

Single-set speed is tested using a 3-page and a 10-page black document. The unit was tested using the PCL driver.

## Job Stream (Speed in PPM)



Black PCL: Tested Model 31.60, Competitive Average 30.90

☐ Tested Model  ☐ Competitive Average

The unit was tested with the PCL driver. BLI's job stream includes Word documents, Outlook email messages, Excel spreadsheets, PowerPoint, HTML and Acrobat PDF files, totalling 19 pages. This test simulates the type of traffic a typical device might experience in a real-world, multi-user environment. All of the files are sent to the device as a group, at which time the stopwatch begins; timing ends when the last page of the last file exits the device. Job stream efficiency is determined by the percentage of the rated speed at which the device operates when producing real-world jobs. The closer the rate is to 100%, or if it exceeds 100%, the more efficient the device.

## Average Print Speed (Multi-Set Average; in PPM)



Average print speed is tested using 3-page and 10-page black documents. BLI obtains the overall speed for each mode by averaging the tested speed for each run length (1, 5, 10 and 20 sets). The unit was tested using the PCL driver.

# POWER CONSUMPTION

**Not Rated**

## PROJECTED ANNUAL ENERGY CONSUMPTION (IN KWH)

| | |
|---|---|
| Total Annual Energy Consumed | 38.0208 kWh |
| Competitive Average | 44.8648 kWh |

Calculations based on printing BLI's job stream test suite over a four-hour period, with the machine set to go into its energy-save and/or sleep modes at the shortest intervals possible. Total yearly energy consumption is calculated based on the total energy used during a typical workday, plus overnight and weekend sleep energy.

**Pages Printed:** 114 total—6 jobs of 19 pages each
**Test Documents Used:** DOC, XLS, PPT, HTML, PDF, Outlook email messages
**Output Modes:** 50% simplex, 50% duplex

Total number of pages run is based on a BLI survey of average monthly volumes by speed range.

## ENVIRONMENTAL FEATURES

| | |
|---|---|
| Specified capable of running recycled paper (30%/50%/100% post-consumer content) | Yes |
| Instant/Quick Fusing | No |
| Duplexing | Yes |
| Toner-save mode | Yes |
| RoHS compliant | Yes |
| Toner cartridge recycling program for this product | Yes |
| Ability to program features such as duplexing and auto shut-off over entire fleet | Yes |
| What tool can be used to do this? | Device Common Setting, KX Printer driver, KYOCERA Net Viewer, KYOCERA Net Admin |
| **Eco-Label Certifications** | |
| ENERGY STAR | Yes |
| Other | Germany Blue Angel, ECMA-370/The Eco Declaration, Japan Eco Mark |

INA: The vendor declined to provide this information
NA: Not applicable

# SUPPORTING TEST DATA

**Test Environment:** Testing was conducted under ambient conditions of 22°C (+/-2.7°C) and 45% RH (+/-10%); monitored daily by two Seven-Day Temperature/Humidity Chart Recorders, in Buyers Lab's test facility at Unit 1 Station Industrial Estate, Wokingham, Berkshire RG41 2YQ. All products lab tested by BLI are powered by dedicated circuits that are protected by ESP (Electronic Systems Protection, Inc.) surge protectors to prevent transient power and communication disturbances from affecting equipment under test.

**Test Equipment:** BLI's dedicated test network in Europe, consisting of Windows 2008 servers, Windows 7 workstations, 10/100/1000BaseTX network switches and CAT5e/6 cabling. BLI's daily test usage is designed to replicate real-world use over an eight-hour workday, and as such includes a mix of various-size documents, simplex and duplex modes, and a mix of short, moderate and long run lengths, and on/off cycles, throughout the day.

**Test Duration:** Products are tested for two months, three weeks of which consists of a durability test during which the product is run at half of its manufacturer-rated maximum monthly volume. BLI's daily test usage is designed to replicate real-world use over an eight-hour workday, and as such includes a mix of various-size documents, simplex and duplex modes, and a mix of short, moderate and long run lengths, and on/off cycles, throughout the day. All products lab tested by BLI are powered by dedicated circuits that are protected by ESP (Electronic Systems Protection, Inc.) surge protectors to prevent transient power and communication disturbances from affecting equipment under test.

**Tested Configuration:** KYOCERA ECOSYS P2040dw base unit with two additional paper sources.

**Test Procedures:** The test methods and procedures employed by BLI in its lab testing include BLI's proprietary procedures and industry-standard test procedures, including a BLI-developed variation of ASTM's 1318-90 Test Method for Determination of Productivity using Electrostatic Copy Machines. In addition to a number of proprietary test documents, BLI uses an industry-standard KATUN test original for evaluating black image quality and test suites from Quality Logic to evaluate applications compatibility. In addition, density of output is measured using an X-Rite 508 Densitometer. Units are tested for compatibility on Windows 7 with Microsoft Office Suite 2010, as well as Adobe Acrobat Reader 10.0.

**Note:** This report is based on BLI testing one representative test sample at a specific point in time. BLI is not responsible for differences in performance that may be the result of lot-to-lot variation, changes in production and machine modifications implemented by the manufacturer, service issues or any other reason beyond BLI's control.  Test unit serial #: KM44B436.

**About Keypoint Intelligence - Buyers Lab:** Keypoint Intelligence is a one-stop shop for the digital imaging industry. With our unparalleled tools and unmatched depth of knowledge, we cut through the noise of data to offer clients the unbiased insights and responsive tools they need in those mission-critical moments that define their products and empower their sales.

For over 50 years, Buyers Lab has been the global document imaging industry's resource for unbiased and reliable information, test data, and competitive selling tools. What started out as a consumer-based publication about office equipment has become an all-encompassing industry resource. Buyers Lab evolves in tandem with the ever-changing landscape of document imaging solutions, constantly updating our methods, expanding our offerings, and tracking cutting-edge developments. For more information, please call David Sweetnam at +44 (0) 118 977 2000 or email him at david.sweetnam@keypointintelligence.com.

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# CERTIFICATE OF RELIABILITY

Awarded to

## KYOCERA Document Solutions Inc.

for the performance of the

## KYOCERA ECOSYS P2040dw

in BLI's in-house durability test*



_Gerry Stoia, CEO_

JANUARY 2018

DATE

*Reliability is based on the KYOCERA ECOSYS M2640idw, which uses the same engine.

This is to certify that when it was subjected to a 25,000-impression Buyers Lab durability test, the KYOCERA ECOSYS P2040dw proved to be a highly reliable product.

## BUYERS LABORATORY

THE LEADING INDEPENDENT OFFICE PRODUCTS TEST LAB AND BUSINESS CONSUMER ADVOCATE

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