

FEBRUARY 2020

Epson EcoTank L4160 vs. Canon PIXMA G6050 and HP Smart Tank 538

Overview

Keypoint Intelligence - Buyers Lab was commissioned by Seiko Epson Corporation to conduct a comparative performance test to assess the single-page productivity performance of the Epson EcoTank L4160 with that of the Canon PIXMA G6050 and HP Smart Tank 538. Buyers Lab measured the time taken to print a single page on each device using a suite of 12 test targets and then compared the results. Testing was undertaken at Epson's Hirooka facility, with devices in their default settings.

Comparable Devices to Those Tested

The table below lists devices that are comparable to those tested, such as those in the same product family or model series. The data in this report relates only to the devices we tested.

Device Tested	Comparable Devices
Epson EcoTank L4160	Epson EcoTank L4168
	Epson EcoTank ET-2750
Canon PIXMA G6050	Canon PIXMA G6010
	Canon PIXMA G6020
	Canon PIXMA G6030
	Canon PIXMA G6040
	Canon PIXMA G6070
	Canon PIXMA G6080
	Canon PIXMA G6090
HP Smart Tank 538	HP Smart Tank 530
	HP Smart Tank 531
	HP Smart Tank 532
	HP Smart Tank Plus 570
	HP Smart Tank Plus 571

Executive Summary

The Epson EcoTank L4160 proved to be the fastest when printing each single-page test file compared to the Canon PIXMA G6050 and HP Smart Tank 538. This was true whether the test file being output was a low-, medium- or high-coverage file.

When printing the very high coverage Test File Three, the Epson printed the file in just 26.24 seconds, for example, while the Canon took 42.12 seconds and the HP device took over twice as long at 61.12 seconds. Even when printing documents with lower coverage, the Epson EcoTank L4160 still beat the competition.

Based on Buyers Lab's testing, the Epson EcoTank L4160 is the fastest of the three devices when printing a variety of single-page files.

Productivity

To test the single-page productivity of each printer, Buyers Lab printed 12 single-page documents on each device. The 12 test documents range from low- to high-coverage pages.

Comparison of First-Page-Out Times

The Epson L4160 proved to be the fastest, whether printing low-, medium-, or high-coverage files. Its closest rival in these tests was the Canon G6050, as its average time to print a page was 7.80 seconds slower than that of the Epson L4160.

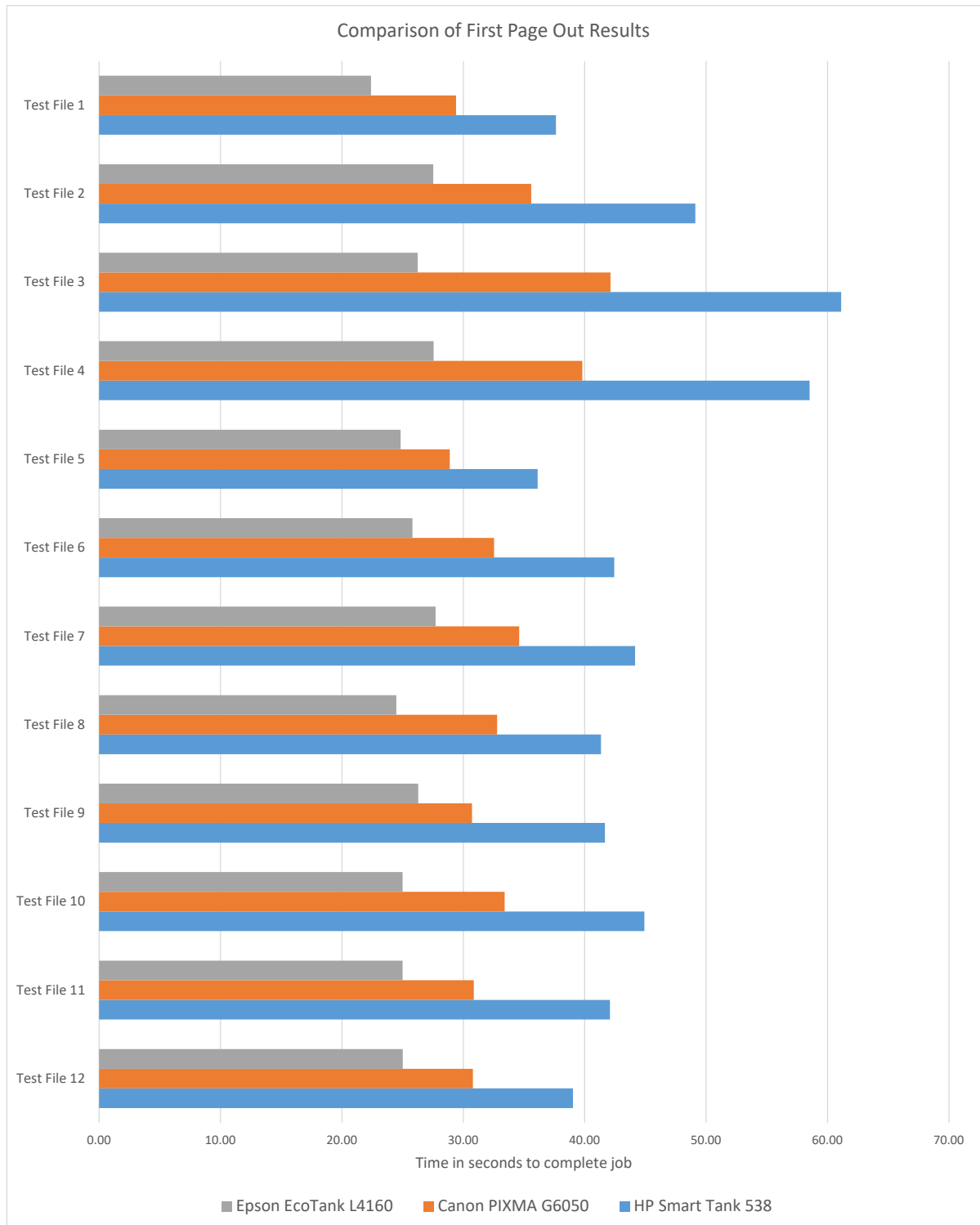
More pronounced was the difference between the Epson L4160 and the HP 538, where the latter's average time to print a page of 44.85 seconds was 74.79% slower than the Epson L4160's average time of 25.66.

Time Taken to Print Test Files

Test File	Epson EcoTank L4160	Canon PIXMA G6050	HP Smart Tank 538
Test File 1	22.40	29.40	37.63
Test File 2	27.53	35.59	49.12
Test File 3	26.24	42.12	61.12
Test File 4	27.56	39.81	58.52
Test File 5	24.83	28.88	36.13
Test File 6	25.81	32.53	42.44
Test File 7	27.71	34.61	44.15
Test File 8	24.48	32.79	41.34
Test File 9	26.28	30.71	41.67
Test File 10	25.00	33.40	44.91
Test File 11	25.00	30.87	42.08
Test File 12	25.02	30.79	39.03
AVERAGE	25.66	33.46	44.85
MINIMUM	22.40	28.88	36.13
MAXIMUM	27.71	42.12	61.12
DIFFERENCE	5.31	13.24	24.99

Each test file was printed on a test device twice, with both times recorded and compared to make sure they were within +/-5% of each other. The fastest time in which each test device printed each test file appears here.

Comparison of First-Page-Out Results



Time in seconds indicates the time elapsed from when the print command was issued to when the trail edge of the page completely exited the device.

Supporting Test Data

Twelve low-, medium- and high-coverage PDF files were printed on each printer using default printer settings, and each file is displayed below. All of the test files are single-page documents.

7020294 Epson WorkForce Pro WF-8590 DTWF
Dodge, Tennessee, TN
USA

Model Name: WF-8590 DTWF
Part Number: C11DN33183

Speed: 30 ipm
Print Volume: 100,000 pages/year
Color: 100,000 pages/year
Resolution: 600 x 600 dpi
Print Size: A4, Letter, Legal, 11x17, 11x14, 5.5x8.5, 8.5x11, 11x17, 11x22, 13x19, 15x11, 15x22, 17x11, 17x22, 11x17, 11x22, 13x19, 15x11, 15x22, 17x11, 17x22

MULTIFUNCTION MOODS

Copy	30	30	30
Print	30	30	30
Scan	30	30	30
Fax	30	30	30

GENERAL SPECIFICATIONS HANDLING

Print Speed	30 ipm
Print Volume	100,000 pages/year
Color Print Volume	100,000 pages/year
Resolution	600 x 600 dpi
Print Size	A4, Letter, Legal, 11x17, 11x14, 5.5x8.5, 8.5x11, 11x17, 11x22, 13x19, 15x11, 15x22, 17x11, 17x22

Test File One

EPSON OFFERS A MONEY-SAVING SOLUTION FOR MAYNOOTH BOYS' NATIONAL SCHOOL

EPSON
EXCEED YOUR VISION

Test File Two

State of the Market: Opportunities for Today and Tomorrow
2016 InfoTrends Digital Imaging Conference

Ed Lee
Group Director, Consumer and Professional Imaging
February 2016

Test File Three

MOVE YOUR BUSINESS FORWARD WITH INKJET PRINTING

The world is better quality, more reliable printing solution for your business is out there. Move your business forward with the WorkForce Pro business inkjet printer. At Epson, we have introduced our cutting edge inkjet technology for business applications. What's great is that inkjet has traditionally been considered to be for home use, the efficiency, simplicity and accuracy of inkjet printing would provide businesses with a number of advantages over laser.

Simple mechanism / Complex mechanism
The simple mechanism of inkjet printing is the reason why it has become the most popular printing technology for business applications. What's great is that inkjet has traditionally been considered to be for home use, the efficiency, simplicity and accuracy of inkjet printing would provide businesses with a number of advantages over laser.

Lower cost / Lower cost
Epson's inkjet technology is the reason why it has become the most popular printing technology for business applications. What's great is that inkjet has traditionally been considered to be for home use, the efficiency, simplicity and accuracy of inkjet printing would provide businesses with a number of advantages over laser.

No contact with paper / Contact with paper
Epson's inkjet technology is the reason why it has become the most popular printing technology for business applications. What's great is that inkjet has traditionally been considered to be for home use, the efficiency, simplicity and accuracy of inkjet printing would provide businesses with a number of advantages over laser.

Liquid ink / Powdered ink (toner)
Epson's inkjet technology is the reason why it has become the most popular printing technology for business applications. What's great is that inkjet has traditionally been considered to be for home use, the efficiency, simplicity and accuracy of inkjet printing would provide businesses with a number of advantages over laser.

Business Inkjet Laser

Test File Four

WorkForce Pro WF-8590 DTWF

Key features and connectivity features:

- 4-in-1 (Print, Copy, Scan, Fax)
- Print up to 30 ipm
- Up to 100,000 pages/year
- Up to 100,000 pages/year
- Automatic duplex
- 6.6mm mono LCD

Recommended solutions:

- Small Print for Office
- Office Data Access

WorkForce Pro WF-8590 DTWF

Key features and connectivity features:

- 4-in-1 (Print, Copy, Scan, Fax)
- Print up to 30 ipm
- Up to 100,000 pages/year
- Up to 100,000 pages/year
- Automatic duplex
- 6.6mm mono LCD

Recommended solutions:

- Small Print for Office
- Office Data Access

Test File Five

BLI Summer 2015 Pick Award

Epson WorkForce Pro WF-8590
Outstanding A3 Low-to-Mid-Volume Business Inkjet All-in-One

BLI BUYERS LAB 2015 PICK

"Epson was highly impressed with the Epson WorkForce Pro WF-8590, from its flawless reliability over 37,500 impressions to the absence of any smudging of the white water mark dropped across output or highlights were used on 11" x 17" A3 European Lab Manager Matt Burt."

"Epson has succeeded in combining the traditional advantages of business inkjet with color, low energy consumption, robust health and a lower total average TCO with color printing. It's a great all-in-one and exceptionally high tested ink yields."

"Epson is honored to be awarded for the BLI Summer 2015 Pick award by an organization with such rigorous testing standards," said Larry Tomasetto, director of Business Imaging for Epson America. "Epson designed the WorkForce Pro WF-8590 A3 to satisfy the performance demands of colorized workgroups, specifically addressing the need for consistent color printing with low ink retention and significantly lower printing costs than similar spears. Plus, if managers will appreciate how they seamlessly integrate into their network and managed print environments."

©2015 Epson America, Inc. All rights reserved. Epson.com

Test File Six

Conditioning:

Printers, paper and cartridges were acclimatized in a room dedicated to the purpose, the temperature and humidity of which were 23.0°C and 50% respectively, for a minimum of two hours prior to testing, and were set up and pre-tested by Buyers Lab.

Test Equipment:

Buyers Lab technicians used a laptop running Windows 10 Pro 64-bit, a USB cable and a stopwatch.

Test Procedures:

Buyers Lab technicians printed 12 single-page PDF documents to each device. Each device was in its ready state when a print job was sent to it. Each document was printed twice on a test device, with the time taken to print each copy noted and compared to make sure the times were within +/-5% of each other. If the times were beyond these bounds, the test was undertaken again.

About Keypoint Intelligence - Buyers Lab

Keypoint Intelligence is a one-stop shop for the digital imaging industry. With our unparalleled services and unmatched depth of knowledge, we cut through the noise of data to offer clients the independent insights and responsive tools they need.

For over 50 years, Buyers Lab has been the global document imaging industry's resource for unbiased and reliable research, test data, and competitive information services. In addition to publishing the industry's most comprehensive and accurate test reports, each representing months of hands-on testing in our U.S. and UK laboratories, we have been the leading organization for extensive specifications/pricing databases on MFPs, printers, scanners, and software. Buyers Lab also provides consulting services and a range of private testing services that include document imaging device beta and pre-launch testing, performance certification testing, consumables testing (toner, ink, fusers, and photoconductors), solutions evaluations, and media runnability testing.

For more information, please call David Sweetnam at +44 (0) 118 977 2000 or email him at david.sweetnam@keypointintelligence.com