Custom Test Report

Comparative Performance Testing

AUGUST 2016

Epson EcoTank L365 / L375*

vs. Canon PIXMA G3000 / G3100* and HP Deskjet GT 5820

Single-Page Productivity Test

Epson EcoTank L365/L375

Canon PIXMA G3000/G3100

HP Deskjet GT 5820

Overview

Buyers Laboratory LLC (BLI) was commissioned by Seiko Epson Corporation to conduct a comparative performance test to assess the single-page productivity performance of the Epson EcoTank L365 / L375 with that of the Canon PIXMA G3000 / G3100 and HP Deskjet GT 5820. BLI measured the time taken to print a single page on each machine using a suite of 12 test targets and compared the results. Testing was undertaken at Epson's Hirooka facility.

Executive Summary

The Epson EcoTank L365 / L375 proved to be the fastest when printing each single-page test file, compared to the HP Deskjet GT 5820 and Canon PIXMA G3000/G3100. This was true whether the test file being output was a low-, medium- or high-coverage file.

From the results, it's clear that the HP Deskjet GT 5820 was at a disadvantage when outputting high-coverage documents, as can be seen in the results for BLI Test File 3. The Epson L365 / L375 completed the file in 32.28 seconds, while the Canon PIXMA G3000 / G3100 was second, with a time of 45.59 seconds. The HP Deskjet GT 5820 took 103.54 seconds to output the same document.

*The Epson EcoTank L375 is the equivalent configured printer as the L365 printer model, which is sold in the Latin America market, though the L365 was the model actually tested. The Canon Pixma G3100 is the equivalent configured printer as the G3000 printer model, which is sold in the Latin America market through the G3000 was the model actually tested.

It's clear that the Epson L365 is the fastest of the three devices for single-page productivity in our tests, beating the HP GT 5820 and Canon PIXMA G3000.

Productivity

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

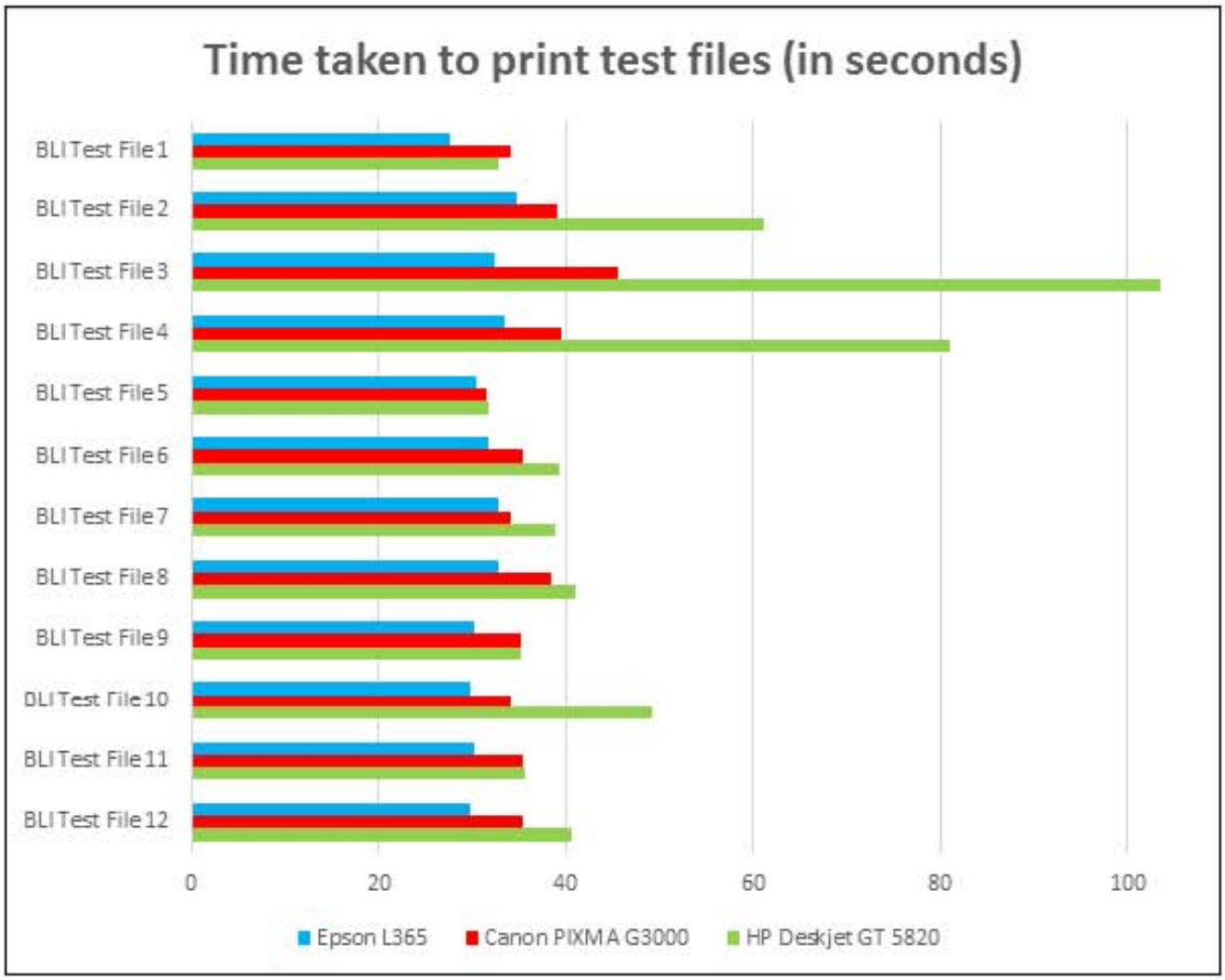
The Epson L365 proved to be the fastest machine when outputting the test files, whether the file was low, medium or high coverage. Its closest rival in these tests was the Canon PIXMA G3000, which was on average five seconds slower than the Epson L365, with the smallest difference in speed being one second when printing BLI Test File 5 and the highest being 13 seconds when printing the high-coverage BLI Test File 3.

More pronounced was the difference between the Epson L365 and the HP GT 5820. The smallest difference in speed was a respectable one second when outputting BLI Test File 5, while the highest was 71 seconds when outputting BLI Test File 3. The average speed difference was 18 seconds, and eight seconds when all times over a minute long were excluded.

The Epson L365's performance is all the more remarkable because it is rated at a lower speed (4.5ppm colour) than the other two devices (5ppm colour).

	Time Taken to Print Test Files		
Colour Mode	Epson L365	Canon PIXMA G3000	HP Deskjet GT 5820
BLI Test File 1	27.69	34.19	32.91
BLI Test File 2	34.66	39.02	61.12
BLI Test File 3	32.28	45.59	103.54
BLI Test File 4	33.53	39.56	81.03
BLI Test File 5	30.47	31.56	31.63
BLI Test File 6	31.69	35.35	39.26
BLI Test File 7	32.85	34.03	38.91
BLI Test File 8	32.88	38.47	41.09
BLI Test File 9	30.28	35.21	35.20
BLI Test File 10	29.80	34.16	49.20
BLI Test File 11	30.14	35.32	35.62
BLI Test File 12	29.88	35.38	40.56

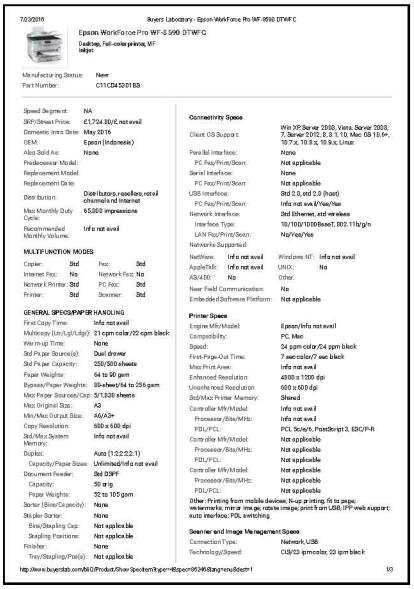
Each test file was printed on a test device twice, with both times recorded and compared to make sure they were within +/-5% of each other. The fastest time in which each test device printed each test file appears here.



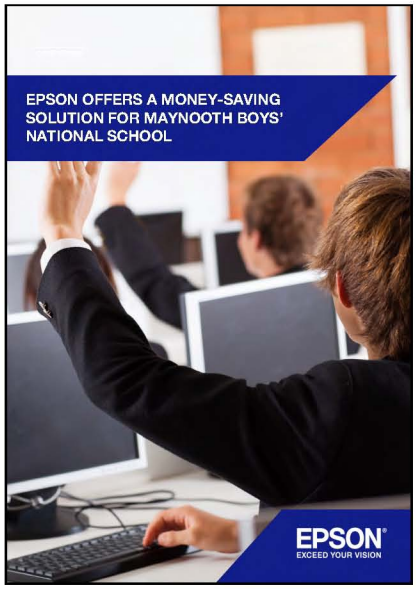
This graph shows as a bar the time taken by each device to print a specific test file.

Supporting Information

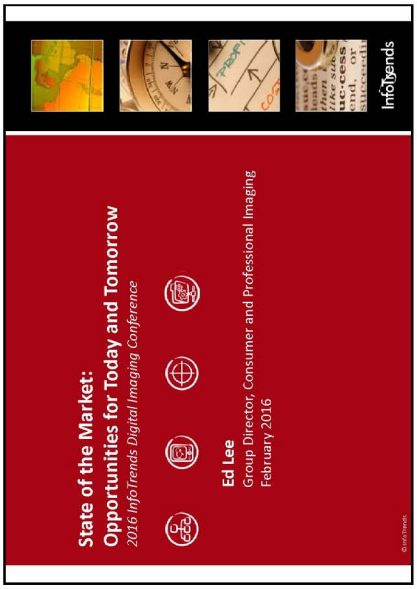
12 low-, medium- and high-coverage PDF files were printed on each printer, and each file is displayed below. All of the test files are single-page documents.



Test File One



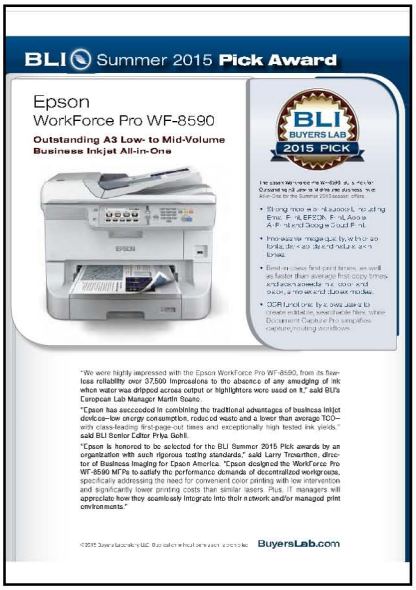
Test File Two



Test File Three

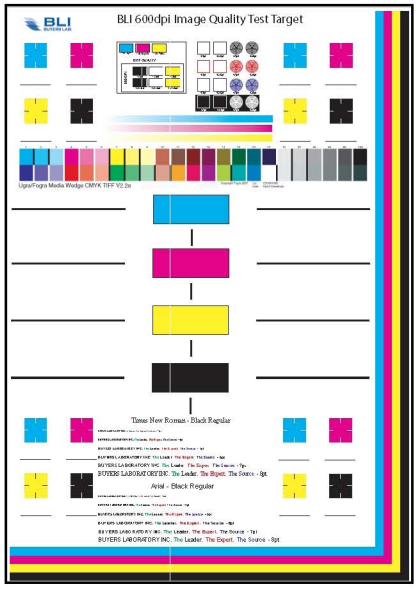
Test File Four

Test File Five

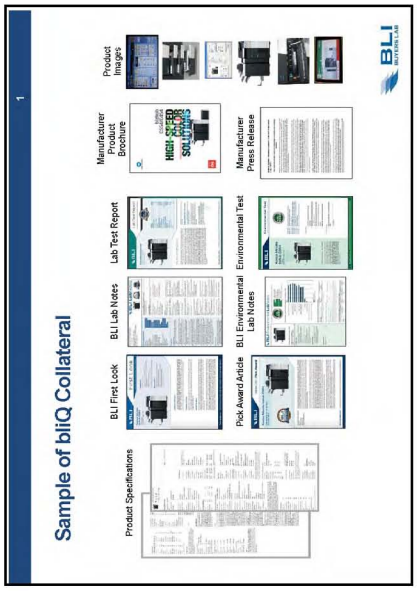


Test File Six

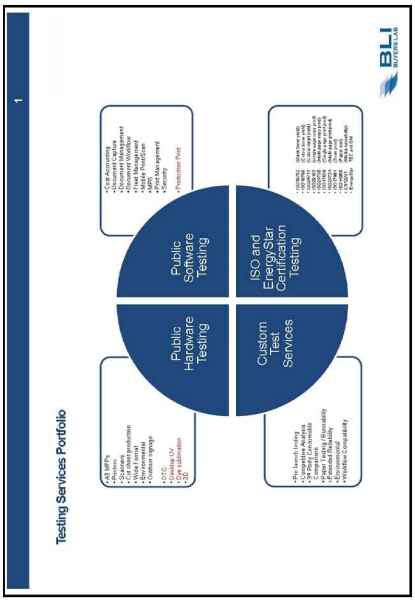
Test File Seven



Test File Eight

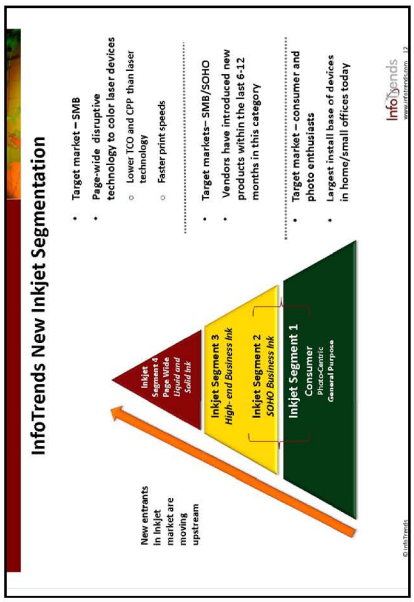


Test File Nine



Test File 10

Test File 11



Test File 12

Test Environment/Conditions:

Testing was undertaken at Epson's Hirooka facility at 80 Hirookahara Shinden, Shiojiri, Nagano Prefecture 399-0706 Japan

Conditioning:

Printers, paper and cartridges were acclimatized to the above conditions for a minimum of two hours prior to testing. Prior to acclimatization, packaging and shipping materials were opened in a manner that prevented damage from occurring to the print cartridges during acclimatization. Paper was acclimatized in ream wrappers. Printers, printer components, paper and cartridges were handled in a manner that prevented exposure to condensation.

Test Equipment: a Windows 10 laptop, USB cable and stopwatch.

Test Procedures: BLI's 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 Buyers Laboratory LLC

Buyers Laboratory LLC (BLI) is the world's leading independent provider of analytical information and services to the digital imaging and document management industry. For more than 50 years, buyers have relied on BLI to help them differentiate products' strengths and weaknesses and make the best purchasing decisions, while industry sales, marketing and product professionals have turned to BLI for insightful competitive intelligence and valued guidance on product development, competitive positioning and sales channel and marketing support. Using BLI's web-based bliQ and Solutions Center services, 40,000 professionals worldwide create extensive side-by-side comparisons of hardware and software solutions for more than 15,000 products globally, including comprehensive specifications and the performance results and ratings from BLI's unparalleled Lab, Solutions and Environmental Test Reports, the result of months of hands-on evaluation in its US and UK labs. The services, also available via mobile devices, include a comprehensive library of BLI's test reports, an image gallery, hard to find manufacturers' literature and valuable tools for configuring products, calculating total cost of ownership (TCO) and annual power usage. BLI also offers consulting and private, for-hire testing services that help manufacturers develop and market better products and consumables.

For more information on Buyers Laboratory, please call David Sweetnam on +44(0)118 977 2000, visit www.buyerslab.com, or email david.sweetnam@buyerslab.com.