

Reliability Performance Test

NOVEMBER 2014

HP Officejet Pro 6230 e-Printer



Test Objective

Buyers Laboratory LLC (BLI), Hackensack, NJ (USA), was commissioned by Hewlett-Packard to conduct a one-month reliability test on two HP Officejet Pro 6230 e-Printer color inkjet printers. The objective of the test was to evaluate the reliability performance of the HP inkjet models when each was subjected to a 15,000-impression reliability test over a one-month period.

Test Overview

Buyers Lab's reliability performance test was conducted using the ISO 24712 five-page color test suite. Two models (designated as Test Unit A and Test Unit B) were tested for one month (20 business days) at daily print volumes that were based on the maximum monthly duty cycle of 15,000 pages, with varying per-diem print volumes designed to replicate real-world usage. Each machine was operated in default (normal) mode, with any misfeeds, multi-sheet feeding, misalignment/skewing, machine malfunctions, printer errors and print head or cartridge failures recorded.

Performance Overview

Both HP Officejet Pro 6230 e-Printers proved to be highly reliable throughout BLI's tests, with neither device experiencing any malfunctions or requiring any service. In the course of producing 15,000 impressions, Test Unit A experienced two misfeeds for a misfeed rate of 1 per 7,500 impressions, while Test Unit B did not experience any misfeeds. Furthermore, no misalignment/skewing, or print head or cartridge failures occurred throughout testing.

The Officejet Pro 6230 e-Printers, which gave an impressive reliability performance throughout the 15,000-impression test, proved highly reliable.

HP Officejet Pro 6830 e-All-in-One

Technology	Inkjet printer (four individual ink cartridges)
Duty Cycle	15,000 pages per month
Color Print Speed	10 pages per minute
Black Print Speed	18 pages per minute
Standard Connection Type	2 USB 2.0, 10/100BaseTX Ethernet, 802.11 b/g/n
PDLs	PCL 3, PCL 3e

Test Unit A

Reliability rating: Excellent

Malfunctions/Misfeeds	Service/Intervention Required
Malfunctions encountered	None
Total misfeeds/misfeed rate	2 / 1 per 7,500 impressions

Total pages printed: 15,000

Total printer malfunctions encountered: None

Total misfeeds encountered: Two

- One misfeed occurred in Test Unit A at 927 impressions when printing in duplex mode on Boise X-9 letter-size paper.
- One misfeed occurred at 9,291 impressions in duplex mode on Boise X-9 letter-size paper.

Total service calls required: None

Test Unit B

Reliability rating: Excellent

Malfunctions/Misfeeds	Service/Intervention Required
Malfunctions encountered	None
Total misfeeds/misfeed rate	0/Not applicable

Total pages printed: 15,000

Total printer malfunctions encountered: None

Total misfeeds encountered: None

Total service calls required: None

Additional Observations

A horizontal registration issue, which is typical of inkjet printers, was observed on page 5 of the ISO color test suite printed on Test Unit A at 7,184 impressions. Streaking, which is also typical of inkjet devices, was observed on page 5 of the test suite produced by Test Unit B at 6,811 impressions. In both instances a routine print head alignment was conducted and resolved the issues.

Supporting Test Data

Test Environment:

Testing was conducted in BLI's test facility located at 20 Railroad Avenue, Hackensack, NJ, and under ambient conditions of 68°F to 78°F and 45% RH (+/-10%), with daily conditions monitored by an Extech RH520 Temperature/Humidity Digital Recorder and a Honeywell Model 61 Seven-Day Temperature/Humidity Chart Recorder.

Test Equipment:

BLI's dedicated test network, consisting of Windows 2008R2 and Microsoft Exchange 2010 servers, Windows 7 Professional workstations, 100/1000BaseTX network switches and CAT5 cabling.

Test Duration

Products were tested for 15,000 impressions over 20 working days with letter-size paper. BLI's daily test usage is designed to replicate real-world use over an eight-hour workday, and as such includes a mix of simplex and duplex modes and a mix of short, moderate and long run lengths, and on/off cycles, throughout the day.

About Buyers Laboratory LLC

Buyers Laboratory LLC (BLI) is the world's leading independent provider of analytical information and services for the digital imaging and document management industry. For over 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, over 40,000 professionals worldwide create extensive side-by-side comparisons of hardware and software solutions for over 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 LLC, please call 201-488-0404, visit www.buyerslab.com, or email info@buyerslab.com.

CERTIFICATE OF RELIABILITY

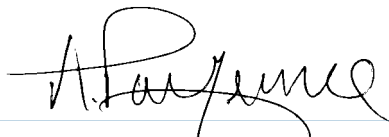
Awarded to

Hewlett-Packard Company

for the performance of the

HP Officejet Pro 6230 e-Printer

in BLI's in-house durability test.



ANTHONY F. POLIFRONE
MANAGING DIRECTOR



NOVEMBER 2014

DATE

This is to certify that when subjected to a 15,000-impression Buyers Lab durability test, the HP Officejet Pro 6230 e-Printer proved to be a highly reliable product.

BUYERS LABORATORY LLC

THE LEADING INDEPENDENT OFFICE PRODUCTS TEST LAB AND BUSINESS CONSUMER ADVOCATE

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