Lab Test Summary

Summarized From A Comprehensive BLI Laboratory Evaluation

Toshiba e-STUDIO507

50 PPM Copier • Scanner • Printer • Fax

BUYERS LABORATORY 2015 BLI HIGHLY RECOMMENDED LAB TESTED

Reliability	Excellent
Multitasking	Good
Administrative Utilities	Very Good
Feedback to Workstations	Good
Ease of Network Setup	Good
Print Drivers	Very Good
Scan Functions	Good
Print/Copy Quality	Very Good
Print/Copy Productivity	Good
Ease of Use	Very Good
Feature Set	Good
Security Features	Excellent
Toner Yield	Poor

BLI RECOMMENDATION

The Toshiba e-STUDIO507 performed well in BLI's tests and proved to be a highly reliable device, completing 150,000 impressions with five misfeeds and no service calls required. Image quality was very good overall in both print and copy modes, with solids in both modes and text in print mode earning BLI's highest ratings. First-copy times from the document feeder and the platen were above average. Otherwise, productivity was competitive. In addition to being very easy to install, the e-STUDIO507's print drivers are also easy to use and offer time-saving conveniences, such as the ability to store one-touch job templates and frequently used settings. Moreover, Toshiba offers several optional e-BRIDGE print driver plug-ins that add advanced functionality to the drivers. The unit offers other convenient features for walk-up users such as one-touch templates to quickly access frequently used settings, along with graphical selection of paper trays and output source on the control panel. Taking into consideration all aspects of performance, BLI highly recommends the e-STUDIO507 for an average optimum monthly volume of 39,000 impressions.

Rating scale: Excellent, Very Good, Good, Fair and Poor.

Test duration: Two months, including a 150,000-impression durability test completed in BLI's product testing facilities.

Tests were conducted using U.S. letter-size paper; A4 results may vary slightly.

About BLI: Since 1961, BLI has been a leading test laboratory in the world of digital imaging equipment. BLI is completely independent in all of its testing processes and subsequent reporting. All of BLI's product evaluations are conducted by highly experienced employees in its on-site testing facilities in the United Kingdom and United States where hundreds of new copiers, printers, wide-format devices, scanners, faxes and multi-function (MFP) products are evaluated and reported on each year.

This lab test report summary is summarised from BLI's Lab Test Report. More information on the Toshiba e-STUDIO507 is available through bliQ (www.buyerslab.com/bliQ).

STRENGTHS

- Printed and copied solids, and printed text received BLI's highest rating
- Fast first-copy times
- Print drivers are easy to install and use; Universal Print Driver includes both PCL and PostScript drivers; the help button on each tab is dynamic, saving users time searching for answers
- Print driver plug-ins add advanced functionality
- High standard hard drive capacity
- Logically organized control panel; users can select paper source and exit tray directly from the device graphic
- Users can store one-touch templates to quickly access frequently used settings for copy, scan and fax jobs; users can store jobs and emails to public or private mailboxes at the same time originals are scanned, copied or printed
- e-BRIDGE Open Architecture enables seamless integration with third-party solutions

WEAKNESSES

- Slow scan speeds and larger than average compressed colour file sizes
- Below average maximum paper capacity, and paper weight support from the drawers and bypass
- Default hole punch and job skip settings can result in paper waste
- Optional RADF; document feeder is standard for most competitive devices
- Tested toner yield is lower than average and fell short of its rated yield
- Users cannot access any functions of the control panel when a misfeed occurs

RELIABILITY

Products are tested for two months, five weeks of which consists of a durability test during which the product is run at its manufacturer-rated maximum monthly duty cycle, with 75 percent of the test volume consisting of print jobs and 25 percent consisting of copy jobs.

Test Period Duration	150,000 Impressions
Total Misfeeds/Misfeed Rate	5/1 per 30,000 impressions
Service Calls	0
PMs	0
Total Service Calls (incl. PMs)	0

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. The durability evaluation also includes testing of the document feeder/scanner for an additional 10 percent of the monthly maximum volume, evenly divided over the course of the test.

PRODUCTIVITY AND EFFICIENCY

Productivity is a measure of the speed at which copy, print and scan jobs are completed. Efficiency is the percentage of the device's advertised speed at which it runs in testing. BLI's experienced test technicians complete a comprehensive series of speed-related tests to simulate real-world conditions.

Copy Mode — Black

Manufacturer's Rated Speed		50.0 CPM	
	# of Sets	CPM	Efficiency
1:1 Simplex Mode	1	37.9	75.8%
	5	39.7	79.4%
	10	43.8	87.6%
	20	46.7	93.4%
	Average	42	84.1%
1:2 Duplex Mode	1	27.4	54.8%
	5	37.6	75.3%
	10	40.8	81.6%
	20	43.1	86.3%
	Average	37.2	74.5%
2:2 Duplex Mode	1	22.4	44.8%
	5	36.3	72.7%
	10	40.3	80.6%
	20	42.6	85.3%
	Average	35.4	70.9%
Document Feeder First-Copy-Out Time		4.84 Seconds	

Print Mode — Black

Manufacturer's Rated Speed		50.0 PPM	
	# of Sets	PPM	Efficiency
1:1 Simplex Mode	1	33.9	67.8%
	5	40.3	80.6%
	10	44.7	89.4%
	20	47.0	94.1%
	Average	41.5	83%
1:2 Duplex Mode	1	29.8	59.6%
	5	37.9	75.8%
	10	41.2	82.5%
	20	43.1	86.2%
	Average	38	76%
Job Stream Speed		40.3 PPM	
Job Stream Efficiency		80.6 %	

Scan Mode	Black	Auto Colour	Full Colour
Scan to Email Speed Single-Sided Originals	50.1 IPM	39.5 IPM	39.6 IPM
Scan to Email Speed Two-Sided Originals	30.8 IPM	22.8 IPM	22.8 IPM

Key

Manufacturer's Rated Speed:	The manufacturer's advertised speed (copies per minute [cpm] or pages per minute [ppm]) for the device.
Originals:	Describes the type of originals (single sided or two sided) used in the scan test.
Document Feeder First-Copy-Out Time:	The time it takes in seconds for a copy to completely exit the device when a copy is made from an original placed in the document feeder.
Job Stream Speed:	The speed at which the device runs at when completing BLI's job stream test.
Job Stream Efficiency:	The percentage of the device's advertised running speed at which it produces the job stream, derived by dividing the tested speed of the device by the manufacturer's rated speed and multiplying by 100. The closer the rate is to 100%, or if it exceeds 100%, the more efficient the unit.

Copy Modes:	1:1 Simplex Mode: Single-sided original to single-sided copy
1:2 Duplex Mode:	Single-sided original to two-sided copy
2:2 Duplex Mode:	Two-sided original to two-sided copy
Print Modes:	1:1 Simplex Mode: Single-sided print
1:2 Duplex Mode:	Two-sided print
# of Sets:	Indicates the number of sets produced of BLI's 10-page two-sided test original.
CPM / IPM / PPM:	Copies per minute / Images per minute / Prints per minute. Entries under this heading indicate the speed at which the device operated when completing the test.
Efficiency:	The percentage of the device's advertised running speed at which the unit ran in testing, derived by dividing the tested speed of the device by the manufacturer's rated speed and multiplying by 100. The closer the rate is to 100%, or if it exceeds 100%, the more efficient the unit.
Average:	The overall efficiency of the device for the tests completed. The overall efficiency (average) is obtained by averaging the efficiency ratings of the run lengths tested.
INA:	Information not available. Test was not performed on the device.
"--":	Not applicable

Copier productivity tests are based on tests performed by BLI using a variation of ASTM Standard Test Method F1318 with 8-1/2" x 11" paper.

BLI tests a unit's copy productivity by making multiple sets (the number of sets depends on the rated speed of the device) of BLI's 10-page two-sided test original in three copy modes (1:1, 1:2 and 2:2).

BLI tests a unit's print productivity by printing multiple sets (the number of sets depends on the rated speed of the device) of BLI's 10-page Word document test file.

BLI's job stream includes Word documents, Outlook e-mail messages, Excel spreadsheets, PowerPoint, HTML and Acrobat PDF files. This test simulates the type of traffic a typical device might experience in a real-world, multi-user environment.

BLI tests a device's scan speed by sending BLI's 10-page two-sided test original to an e-mail address as a 300-dpi PDF file. Scan speed is determined by measuring the time it takes for BLI's 10-two-sided test original to feed through the document feeder.

Additional information on productivity and BLI's test methodology is available in the Help section on bliQ. See Glossary of Terms in the Table of Contents.

IMAGE QUALITY

BLI evaluates image quality using a combination of industry-recognized copy and print documents plus BLI proprietary test charts. A wide variety of factors are assessed using a combination of BLI technicians' expert visual opinion in addition to scientific measurements using densitometry and colour spectrophotometry equipment.

	Print Quality	Copy Quality
Text	Excellent	Excellent
Line Art	Good	Fair
Halftone Pattern/Fill	Good	Good
Halftone Range	Very Good	Very Good
Solids	Excellent	Excellent

LAB TESTING OVERVIEW

Test Environment: This product was tested in BLI's environmentally controlled 10,000 square-foot / 1,000-square-metre US test lab, or 3,000-square-foot / 300-square-metre UK test lab, which replicates typical office conditions.

Test Equipment: BLI's dedicated test network, consisting of Windows NT 4.0, 2000, 2003 and Microsoft Exchange servers, Windows XP workstations, 10BaseT/100BaseTX/1000BaseTX network switches and CAT5 cabling.

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 to a visual observation, colour print quality is tested using the ANSI standard IT8 Colour Test Target, which is read using a colour spectrophotometer, and samples are analyzed using the CIE XY Chromaticity Diagram. In addition, density of black and colour output is measured using an X-Rite 508 Densitometer. Georgia-Pacific Spectrum is used in US tests, UPM YES Silver paper is used in UK tests. In both cases, 10 percent of which is recycled paper containing 30 percent post-consumer content. Image quality in the US is tested using Georgia-Pacific Printing Paper (22 lb., 96 brightness) and in Europe using UPM Future ImageTech 100gsm paper.