

Lab Test Report A Comprehensive Keypoint Intelligence Laboratory Evaluation



# Toshiba e-STUDIO6506AC

65 PPM Colour/75 PPM Black Print / Scan / Copy / Fax

<b>•</b> Reliability	9.5
Apps/Onboard Tools	Not Rated
• Image Quality	6.0
Print Quality	5.5
Copy Quality	6.5
• Usability	7.5
Serviceability/Management	7.0
Walk-up Experience	8.0
Workstation Experience	8.0
• Mobility	Not Rated
<b>o</b> Security	9.5
• Features	5.0
• Speed	7.5
Print Speed	7.0
Scan Speed	9.0
Copy Speed	6.0
Power Consumption	Not Rated



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# **OUR TAKE**

The Toshiba e-STUDIO6506AC gave a very good overall performance that will make it a great asset in large workgroups or departments. The device demonstrated outstanding reliability, with just four misfeeds over the course of its 540,000-impression durability test. Multiple-user environments can also rest assured that the device will quickly handle jobs, as evidenced by fast job stream speeds when compared to its peers. Users also get fast scan speeds with the 300-sheet duplex single-pass feeder, which also reduces wear and tear on originals. Profiles in the drivers and one-touch templates provide guick access to frequently used settings for scan and copy jobs to further boost worker productivity. A choice of four menu designs for scan and copy, from two of which only the most commonly used settings are programmable, lets users program jobs more quickly. High quality output in black will easily meet general office needs. For added convenience, users can print when away from their desks with support for mobile printing, and have access to cloud scanning and printing directly from the control panel. BLI highly recommends the Toshiba e-STUDIO6506AC for environments with monthly volumes of up to 60,000 impressions.

# Toshiba e-STUDIO6506AC Fast Facts\*

SRP	€19,975 (German Euros)
Max Monthly Duty Cycle	540,000 impressions
Manufacturer's Recom- mended Monthly Volume	NA
Rated Speed	65 cpm colour/75 cpm black
Std Paper Source(s)	Four drawers
Std Paper Capacity	2,160 sheets**
Paper Weights	60 to 256 gsm
Bypass/Paper Weights	120-sheet/60 to 300 gsm
Max Paper Sources	6
Max Paper Capacity	4,780 sheets**
System Memory (Std/Max)	4-GB RAM, 320-GB HD/4- GB RAM, 320-GB HD
Document Feeder/ Capacity	Std DSPF/300 originals
PDL/PCL	PCL 5e/c/6, PostScript 3, XPS
Scanner Technology/Speed	CCD/120 ipm colour, 120 ipm black
*At time of publication	

\*\*Four-drawer version offers standard and maximum paper capacities of 3,520 sheets and 6,020 sheets respectively.

**Test Duration:** Two months, including a 540,000-impression and 54,000-scan durability test. The gauges above represent Excellent (9–10), Very Good (7–8.5), Good (4–6.5), Fair (1.5–3.5) and Poor (0–1).

Please visit buyerslab.com/bliQ for more information.



# **BENEFITS**

Excellent reliability and on-the-fly toner replacement maximize uptime

Crisp and dark text, consistent lines, and bold solids enhance general office output

Save up to 20 profiles in the driver for quick print job programming

Simple Scan and Simple Copy menus plus one-touch templates make programming of common job types a cinch

Standard tandem printing allows users to split large jobs between two Toshiba devices for faster completion

Optional scan to Word, Excel and PowerPoint create fully editable documents, eliminating the need to reproduce or search for the original electronic document to reuse

Multi-station print solution lets users print to one device and release to any other in the organisation for enhanced security and reduced waste

Support for mobile printing and access to scanning to or printing from the cloud directly from the control panel keeps workers productive even when they're away from their PCs

Robust security features help protect sensitive data

e-BRIDGE Next Controller expands functionality through applications that can be embedded onto the MFPs

# ADVANTAGES

Fast job stream speeds for efficient job processing during peak usage in multi-user environments

Fast scan speeds and 300-sheet duplex single-pass feeder boost scan productivity

Fast first-copy times

# **LIMITATIONS**

Skin tones were slightly yellow in print mode and slightly red in copy mode

Inconsistent colour output over long print runs

Higher than average price

No support for direct printing

Less intuitive procedures for network folder browsing from the control panel and the web

Scan to email does not support the ability to store extensions or domains as one-touch keys

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# RELIABILITY

9.5

Excellent durability performance, with just four misfeeds experienced over 540,000 impressions

Test duration	540,000 impressions and 54,000 scans
Output/Scan misfeeds	4/0
Misfeed rate	4/1 per 135,000 impressions
Service calls	0

At 418,000 impressions into the test, a C022 call for service was experienced on the device. According to technical bulletin TSB-1784 issued by Toshiba in January 2017, in some rare cases the scraper inside the developer unit may become damaged and cause the C022 error. To prevent this, the scraper in the developer unit has been changed on this series to the one used in the e-STUDIO5560C/6560C/6570C. Once this change was made to the device, BLI technicians did not experience this error code again in the remaining 122,000 impressions of the durability test.

# APPS/ONBOARD TOOLS

#### Not Rated

Toshiba's fleet of devices include a new Intel multi-core processor, and the device is driven by the e-Bridge Next Controller, which now allows applications to be embedded onto the MFPs themselves. According to Toshiba, e-BRIDGE Open Platform is a flexible, open software architecture that allows their value-added solution partners to create more truly customized MFP solutions to meet specific business needs by expanding the integration capabilities of Toshiba MFPs via compatibility with a host of third-party applications such as e-BRIDGE Re-Rite, Microsoft Share-Point, Exchange and many more.



The new multi-station print solution, which is essentially secure release, allows users to print jobs to one device and release to any others. While each device needs to be licenced, users can change the number of sets and can change to output in duplex.



	Print Mode	Copy Mode
Colour Photographic Images	Good	Good
Colour Business Graphics	Good	Good
Text	Very Good	Very Good
Line Art	Good	Very Good
Halftone Pattern	Very Good	Good
Halftone Range	Excellent	Good
Solids	Very Good	Very Good

### O PRINT QUALITY

5.5

6.0

Excellent halftone range in colour and black
Above average reproduction of backgrounds and pastel shades
Crisp, dark text, consistent lines, and bold solids
Inconsistent colour output throughout testing
Colour saturation not bright enough; skin tones slightly yellow

### **Print Density**

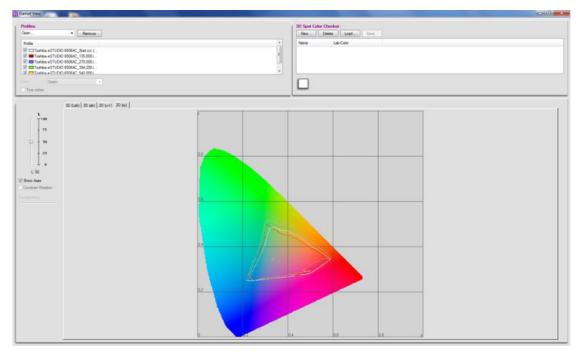
	Tested Model	Competitive Average
Cyan	0.78	1.09
Magenta	1.26	1.18
Yellow	1.03	0.90
Black	1.31	1.48

Density of a printed image with blocks of all solid colours, based on the average of two readings each for cyan, magenta and yellow, and four different locations on the output for black. The higher the reading, the darker the image.



### Gamut Variance Readings

Test Point	Delta E	Delta E (2000)	BLI Rating
135,000	7.27	4.74	Fair
270,000	11.09	8.17	Poor
394,200	8.18	6.22	Fair
540,000	7.76	5.21	Fair
Average BLI Rating = 8.5	Fair		



Delta E is a colorimetric measurement assessing the distance between colours. The readings reflect the average shift of four specific colour points within the colour gamut from the previous measured point.

# COPY QUALITY

6.5

Bright saturation and above average background reproduction

Crisp, dark text, consistent lines, and bold solids

Colour halftones were grainy; slightly reddish flesh tones



# Copy Density

Colour	ORIGINAL	TESTED COPY	AVERAGE
Black	1.91	1.33	1.51
Cyan	1.33	1.11	1.28
Magenta	1.29	1.10	1.23
Yellow	0.99	0.90	1.84

Density of a printed image with blocks of all solid colours, based on the average of two readings each for cyan, magenta and yellow, and two different locations on the output for black. The higher the reading, the darker the image.

# **USABILITY**

SERVICEABILITY/MANAGEMENT

Multiple drivers can be installed simultaneously

No user intervention is required for the configuration of accessories; however, the install utility does not support built-in test-page printing.

Dynamic, step-by-step instructions on control panel display for clearing misfeeds.

Simple, on the fly procedures for replacing toner.

Large capacity tray design allows for reloading of paper on the fly.

Easy navigation of the web user interface and fleet management utility.

LDAP search support from web user interface means users can remotely add and edit destinations from the LDAP servers.

Two levels of email alerts at fleet management utility help IT personnel keep devices running; in addition, usage can be tracked by device or by department for accurate cost analysis.

Instead of being browser-based, the fleet management utility requires software to be loaded on any PC where it is used.

7.5

7.0





Both length and width guides slide in the drawers when adjusting paper size; plus easy-to-see limit indicators help ensure that paper won't be overloaded in each drawer. (U.S. model pictured)



The process for replacing toner is simple and clean; toner can also be changed on the fly. (U.S. model pictured)



8.0

http://192.168.36.41/?MAIN=TOPACCESS			Q - C	🖉 TopAcce	ss		×	
pAccess								e-Filing
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	Device Information						_	
[	Status			Alerts				
	Name			MFP11836976			_	
	Location						_	
	Copier Model			TOSHIBA e-STU	JDIO6506AC		_	
	Serial Number			CHKF13212			_	
	MAC Address			00:80:91:b4:9e:	50		_	
	Main Memory Size			4096 MB			_	
	Page Memory Size			1166 MB			_	
	Save as File & e-Filing Sp Fax Space Available	ace A		120827 MB 958 MB			_	
	Contact Information			926 MB			_	
	Phone Number						_	
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ax None				Add Paper.				
oner	Paper							
ellow(Y) 75%	Drawer	Size	Thickne	ss Attribute	Capacity	Leve	el	
Aagenta(M) 69%	Drawer 1	LD	Plain	None	540			
Cyan(C) 75%	Drawer 2	LTR	Plain	None	540			
lack(K) 86%	Large Capacity Feeder(Right)	LT	Plain	None	1180			
	Large Capacity Feeder(Left)	LT	Plain	None	1180			

The web utility includes detailed status on consumables and media supplies. Status information on currently running and pending jobs is also available, and history can be exported as a CSV or XML file. Administrators can also clone settings from one device to another. (U.S. model pictured)

# WALK-UP EXPERIENCE

Users can easily switch between the Scan, Copy and Simple Scan and Simple Copy screens based on preference and need.

Scan preview can be enlarged using pinch technique with fingers; users can also delete, replace or insert pages, but cannot rotate pages or change resolution.

While data entry is easy via the large QWERTY keypad with comfortably spaced keys, scan to email does not support the ability to store extensions or domains as one-touch keys.

The layout of the scan to USB menu is the same as the scan to email menu, which ensures a smooth transition from one to the other when using functions such as preview, background suppression and blank page removal.

Print from and Scan to USB menus auto-populate upon insertion of a USB flash drive, and support sub-folder storage and creation of folders via e-BRIDGE Plus for USB Storage.

Scan to Word, Excel and PowerPoint with optional embedded OCR is a big time saver, eliminating the need to reproduce or search for the original electronic document to reuse. Users can also edit and add information to a digital version of a hard copy document.

No support for storing manually entered addresses to the address book from the scan menu, instead requiring users to go to the address book under User Functions; just two scan destinations are supported in one session.

Less intuitive procedures for network folder browsing from the control panel and the web, requiring the entry of IP address or server name in order to browse network folders.

Jobs can be prioritised one slot at a time, but only quantity can be modified for jobs in queue.

Print Around allows jobs for which resources are available to be run, eliminating bottlenecks.





Administrators can customize the Home screen, adding features such as ID card copy, duplex copy, scan to file and templates for quick access. Function buttons can be rearranged via drag and drop, renamed and resized. Apps for Scan to Dropbox, OneDrive and Google Drive can be loaded onto the Home screen. (U.S. model pictured)

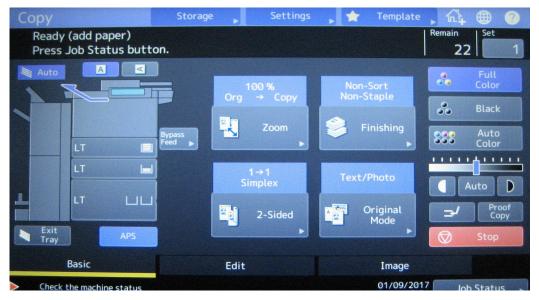
Simple Scan			
		ess Book	Start
Color Mode	File Format	Resolution	2-Sided Scan
Black	PDF	1-Sided	
<b>心</b>	Scan		

In addition to one email address, the Simple Scan menu includes selections for colour, format, resolution and duplex. The Scan Mode button will conveniently bring users to the normal scan menu with all settings and multiple destinations available. (U.S. model pictured)





The Simple Copy menu can be easily selected and includes selections for multiple sets, colour mode, reduction/ enlargement, staple or non-staple and duplex. (U.S. model pictured)



Most commonly used copy features are accessible from the main screen. In addition, paper source and exit tray can be conveniently selected directly from the graphic of the device on the main Copy tab. Proof Copy is also programmable from the Basic tab. Touch keys for storage and template are also located at the top of every control panel screen for easy access. With storage, scanned data can be stored in the e-Filing box of the machine at the same time originals are scanned or copied. Users can also opt to store scanned data in the shared folder of the machine or a computer on the network. Each user can register up to 75 of their own templates with a password or place the settings in the public template group or useful template group. (U.S. model pictured)



# WORKSTATION EXPERIENCE

8.0

Users can save up to 20 profiles for quick job programming, which is conveniently accessible on every tab of the driver.

Drivers offer point-and-click support for selection of paper source and output tray, as well as a job review that includes both a graphical image with settings and a thumbnail view.

The process for secure print jobs is intuitive, and multiple jobs can be output at once with the same PIN; a function to display asterisk (\*) instead of file name at the hold job list and job status queue is supported.

Highly detailed consumables and paper status and highly customizable email alerts from web user interface; paper and toner status are also available at the control panel.

Status messages at the bottom of the control panel take the hassle out of checking for depleted supplies or maintenance needs.

Duplex and stapling are not available for selection on the main driver screen in default settings.

No support for direct print.



🖶 TOSHIBA Universal Printer 2 Pr	rinting Preferences	×
Basic Finishing Paper Handling	Image Quality Effect Others Templates	
Print <u>J</u> ob:	Original Paper Size:	
Normal Print V	Letter (8 1/2 x 11") ~	
	↓ Print Paper Size: □ Image Scale:	
	Same as Original Size 100 - %(25-400)	
	<u>P</u> aper Source:	
	Auto 🗸	
	Paper Type:	
	Plain (16-21lb.bond)	
100%	Destination:	
Letter	Tray 2 V	
Settings	Number of Copies: 1 (1-9999)	
Profile:		
None ~	Orientation:	
Sa <u>v</u> e Profile Delete	Po <u>r</u> trait     Cla <u>n</u> dscape	
Restore Defaults	••• Color:	
	Auto V Details	
	OK Cancel Apply Help	

The standard drivers include seven tabs: Basic, Finishing, Paper Handling, Image Quality, Effect, Others and Templates. Some commonly used features, such as paper source and size, exit tray, orientation, colour mode and quantity are located on the basic tab, but users must navigate to the finishing tab to access functions such as duplexing and stapling. The finishing tab can be made the default tab whenever the driver is opened. Also these settings can be saved as a Profile and loaded on every tab of the driver. Incompatible settings are either greyed out or changed to correct settings with a dialogue that manual operation is necessary. In addition, the setting changes are viewable in the print preview, helping to eliminate any miscues prior to submitting the job to print (U.S. model pictured).



🖶 TOSHIBA Universal Printer 2	2 Printing Preferences		×
Basic Finishing Paper Handli	ng Image Quality Effect Othe	ers Templates	
Number of Copies: 1	▲ (1-9999) ▼		
BW, Duplex, Staple & 2in1	Color Booklet 1.2.3	Duplex & Staple	
Duplex, Staple & 2in1	Duplex, Staple & Punch		
Templates Dialog <u>B</u> ox			Ed <u>i</u> t
	C	K Cancel	Apply Help

The settings of each template on the Templates tab can be changed and renamed for quick programming of commonly run workflows. The Templates tab can also be made the default tab whenever the driver is opened. (U.S. model pictured)

# **MOBILITY**

**Not Rated** 

9.5

Mobile capabilities available for the device include the print and scan app for iOS and Android users. AirPrint and Mopria are also supported. New scan to cloud applications supported include Google Drive, OneDrive, and Drop-Box. Toshiba's e-BRIDGE Print & Capture also supports Evernote and Box. While these need to be installed on a device via TopAccess, they are free with no licence requirements, and the serverless applications run on the device itself. Icons for some of these can be loaded on the machine and accessed at the control panel.

# SECURITY FEATURES

Standard, self-encrypting hard drive with automatic drive invalidation and data overwrite up to 15 times

Optional hardcopy security printing provides unauthorised copy control

FIPS 140-2 validated

Meets ISO 15408 and IEEE 2600.1 security standards

Optional ID card authentication methods

Common Criteria Certification for the entire suite

Administrators can limit or restrict access to colour, the control panel and USB

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# SECURITY FEATURES

AUTHENTICATION	
Network user authentication at control panel	Standard
Windows	Yes
Novell NetWare NDPS	Yes
LDAP	Yes
Kerberos	Yes
802.1x wireless	Yes
SMTP	Yes
POP before SMTP	Yes
Biometric	No
ID Card	Optional
HID	Yes
Common Access	Yes
Other	HID iClass Card Reader, HID Proximity Card Read- er, Magnetic Stripe Reader, MiFare Card Reader, Indala Card Reader
Registered department or user ID codes	Standard
Number	1,000 department codes; 10,000 user IDs
ACCESS CONTROL	
Restrict colour	Standard
Control panel lock/disablement	Standard
Restrict access to address book	Standard
Restrict USB port	Standard
Restrict direct printing	Standard
Restrict other	Role based access control function
HARD DRIVE	
Encryption	Standard
Maximum level	256-bit AES
Overwrite	Standard
Method	Simple, Low, Medium, High
Maximum number after a job	15 times
Maximum number at end of lease	15 times
Lock	Standard
Removable	Optional
Password-protected mailboxes	Standard
Data auto-deletion in mailboxes	Standard
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
Encrypted scanning	Standard
Maximum level	128 bit
For scan to USB	Yes
Unauthorised scan/copy protection block (watermark)	Standard
Compatible with same-brand devices	Yes
Compatible with third-party devices	Yes
NETWORK SECURITY/PROTOCOLS	
Protocol disablement	Standard
Port disablement	Standard
IP address filtering	Standard
MAC address filtering	Standard
HTTPS	Standard
Self-signed certificate	Yes
Certificate signing request	Yes
IPsec	Optional
IPv6	Standard
Secure Sockets Layer (SSL)	Standard
S/MIME encryption	No
SNMPv3 support	Standard
Transport Layer Security (TLS)	Standard
Trusted Platform Module (TPM)	No
CERTIFICATIONS	
Common Criteria	Yes
EAL level	EAL 3+
Capabilities certified	Entire security suite
FIPS 140-2	Yes
Level	INA
IEEE 2600	Yes
OTHER	
Administrator password length	Up to 64 characters
Password-protected web server	Yes
Additional features	INA
Third-party features	INA
INA: The vendor declined to provide this information	

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



# **FEATURES**

Above average document feeder capacity.

In the tested configuration, the device supports 305 mm x 457 mm paper from drawers one and two for the ability to print A3 colour bleeds on 305 mm x 457 mm paper. Support for 305 mm x 457 mm paper is supported from four drawers via the four-drawer version.

The optional multi-position finisher has a 3,000-sheet tray plus 250-sheet stationary tray. An optional saddle-stitch finisher handles 3,250 sheets and features V-folding and saddle-stitching of up to 15 sheets to create 60-page booklets. Hole punching is available for either finisher. Offline stapling on demand for up to 50 sheets is supported on the multi-position stapling finisher.

# **SPEED**

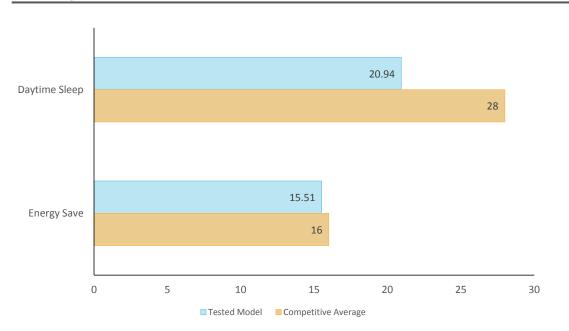


7.0

5.0

# PRINT SPEED

The device proved it can stand up to the rigors of a multi-user office with an above average job stream performance and fast speeds when printing single and multiple sets.

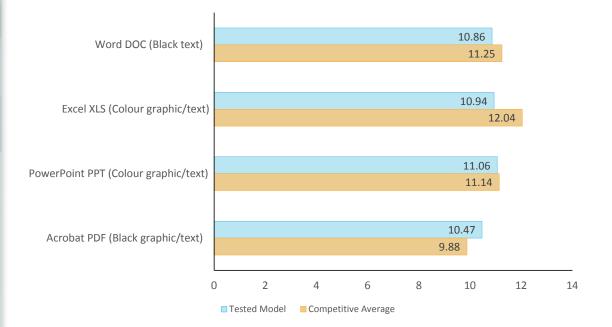


### Recovery Times (in Seconds)

Recovery time in seconds indicates the time it took to warm up, process the image, and deliver a single-page test document to the output tray. The unit was tested with the PCL driver.



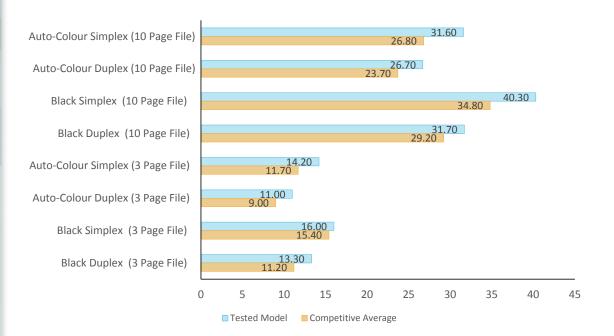
#### First-Page Print Time From Ready Mode by File Type (in Seconds)



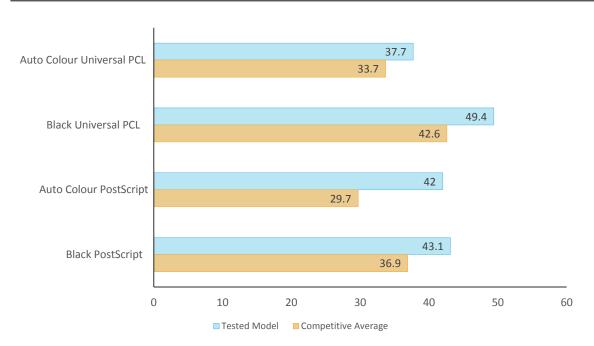
First-print time indicates the time it took to process the image and deliver a single-page test document to the output tray. The unit was tested using the PCL driver.



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



Single-set speed is tested using BLI's proprietary 3-page and a 10-page testing document. The unit was tested using the PCL driver.

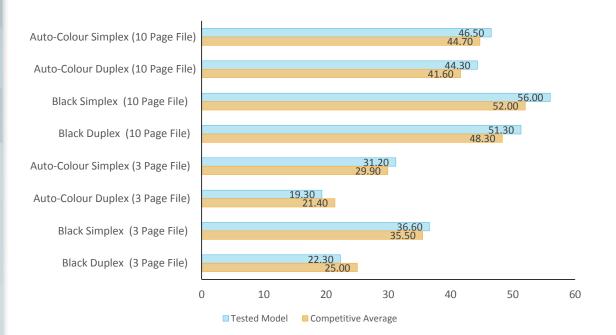


Job Stream (Speed in PPM)

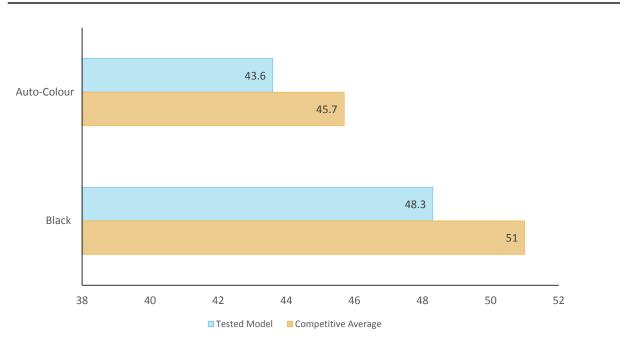
BLI's job stream includes Word documents, Outlook email messages, Excel spreadsheets, PowerPoint, HTML and Acrobat PDF files, totalling 19 pages. This test simulates the type of traffic a typical device might experience in a real-world, multiuser environment. All files are sent to the device as a group, at which time the stopwatch begins; timing ends when the last page of the last file exits the device.



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



Speed is tested using BLI's proprietary 3-page and 10-page testing documents. BLI obtains the overall speed by averaging the tested speed for each run length (1, 5 and 10 sets). The unit was tested using the PCL driver.



### Booklet Print Speed (in PPM)

Booklet Print Speed is tested by having the device fold, saddle-stitch and output 10 sets of a 16-page PDF file Tests were conducted using U.S. letter/ledger paper; A4/A3 results may vary slightly.

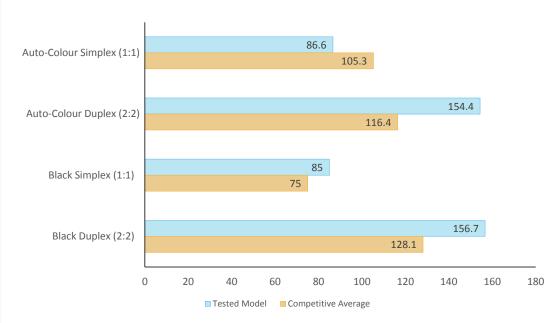


### SCAN SPEED

9.0

In BLI's scan tests, the unit was among the fastest in most modes tested. In addition, colour file size was smaller than average when using compression. Compression is not available in black, but the file size is still much smaller than the average of other non-compressed files.

### Scan Speed (in IPM)



Testing is conducted with a 10-page file scanned in default mode at 300 dpi in PDF format.

#### 1484.8 Full-Colour (Default compression) 1003.09 157 Full-Colour (Best compression) 270.68 47.4 Black (Default compression) 204.28 Not Applicable Black (Best compression) 36.87 0 200 400 600 800 1000 1200 1400 1600 Tested Model Competitive Average

Scan File Size (in KB)

Testing is conducted with single-page files scanned at 300 dpi in PDF format. Tests were conducted using U.S. letter-size paper; A4 results may vary slightly.



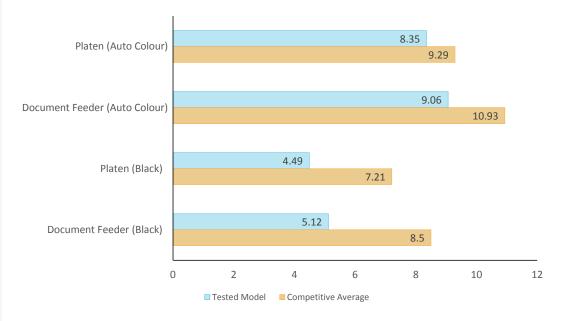
### COPY SPEED

6.0

While the Toshiba e-STUDIO6506AC's running speeds in BLI's multitude of productivity tests are competitive with its peers overall, the device gave a better than average showing than its peers when copying double-sided sets in colour mode. First-copy times in black were also among the fastest in the device's class.

### First-Copy Times (in Seconds)

Copy Speed (Single-Set; in CPM)



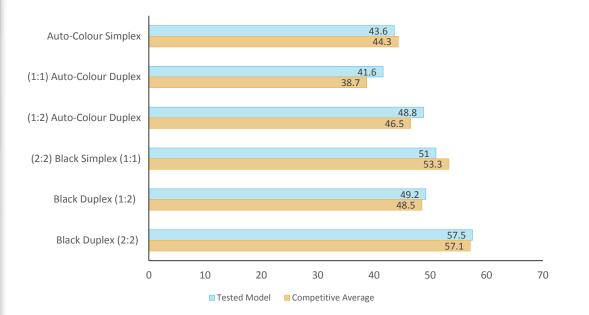
First-copy time is measured as the time it takes for a single copy to completely exit the device when a copy is made from an original placed in the document feeder and on the platen.

#### 28 Auto Colour (1:1) 25.7 25.2 Auto Colour (1:2) 20.7 34.3 Auto Colour (2:2) 31.6 33.9 BLI (1:1) 35.4 32.3 BLI (1:2) 28.7 35.8 BLI (2:2) 40.4 0 5 35 40 45 10 15 20 25 30 Tested Model Competitive Average

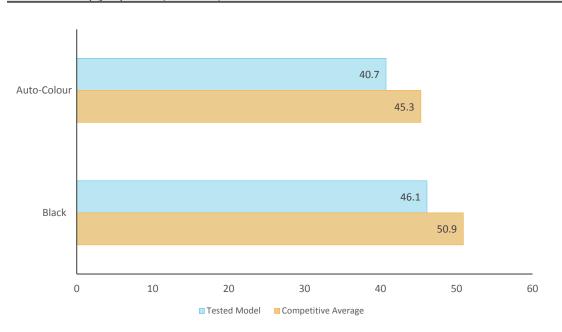
Single-set copy speed is tested using BLI's proprietary 10-page testing document. Timing begins as the start button is pressed, pages are scanned through the document feeder and timing ends when the last page of a single-set of the document exits the device.



#### Average Copy Speed (Multi-Set; in CPM)



Copy speed is tested using BLI's proprietary 10-page testing document. BLI obtains the overall speed by averaging the tested speed for each run length (1, 5, and 10 sets).



Booklet Copy Speed (in CPM)

Productivity is tested by having the device fold, saddle-stitch and output 10 sets of a 16-page PDF file. BLI obtains the efficiency (percent of rated speed) for each mode by averaging the efficiency ratings (derived by dividing the tested speed of the device by the rated speed and then multiplying by 100). The closer the rate is to 100%, or if it exceeds 100%, the more efficient the device.

Tests were conducted using U.S. letter/ledger paper; A4/A3 results may vary slightly.



# **POWER CONSUMPTION**

**Not Rated** 

### Projected Annual Energy Consumption (in kWh)

Total Annual Energy Consumed	430.2688 kWh
Competitive Average	351.394 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. Total number of pages run is based on a BLI survey of average monthly volumes by speed range.

Pages Printed: 1,134 total— Ten files (or one job stream), comprising 189 pages, are submitted six times.) Test Documents Used: DOC, XLS, PPT, HTML, PDF, Outlook email messages Output Modes: 50% simplex, 50% duplex

### **Environmental Features**

Specified capable of running recycled paper (30%/50%/100%	Yes
post-consumer content)	
Instant/Quick Fusing	Yes
Duplexing	Yes
Toner-save mode	Yes
RoHS compliant	Yes
Toner cartridge recycling program for this product	No
Ability to program features such as duplexing and auto shut-off over entire fleet	Yes
What tool can be used to do this?	INA
Eco-Label Certifications	
ENERGY STAR	Yes
Other	ECMA-370/The Eco; Germany Blue Angel; EPEAT Gold Certified; Nordic Swan; Taiwan green Mark; Thai Green Label; WEEE Directive
INA: The vendor declined to provide this information	

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



# Supporting Test Data

**Test Environment:** This product was tested in BLI's environmentally controlled US test lab, which replicates typical office conditions.

**Test Equipment:** BLI's dedicated test network, consisting of Windows 2008 and Microsoft Exchange servers, Windows 7 workstations, 10/100/1000BaseTX network switches and CAT6 cabling.

**Test Duration:** A single product is 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 25 percent of the test volume comprised of copy jobs and 75 percent comprised of print jobs. 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 in simplex and duplex modes for an additional 10 percent of the monthly maximum volume, evenly divided over the course of the test.

**Tested Configuration:** Toshiba e-STUDIO6506AC base unit, plus MJ1112 Saddle Stitch Finisher, Doc Feeder MR-4000, two standard cassettes and Large Capacity Feeder RT and LT.

**Test Procedures:** BLI's lab testing includes both BLI proprietary and industry-standard test procedures and documents. In addition to a visual image quality evaluation, optical density of primary colour (CMYK) solid fill output is measured using a densitometer, and colour gamut and consistency are evaluated using a colour spectrophotometer. The reliability test is conducted using Georgia Pacific and Boise paper in the US, and UPM, Data Copy and Mondi paper in the UK. In both labs, 30 percent of the paper is recycled. The media used for image quality testing is Georgia Pacific Printing Paper (24 lb., 96 brightness) in the US and UPM Future ImageTech 100 gsm in the UK.

**Competitive Average Model Group:** The analysis in this report compares the tested device to a group of all other currently available like models (e.g., colour vs. colour, copier-based vs. copier-based) in the same speed range (5 ppm up and down from the speed of the tested device) with support for the same media size. For test performance categories, the results are compared with those of currently available tested models in the group, whereas for feature set and pricing, the comparison is made against all currently available models in the group, whether tested or not. The pricing analysis is for devices comparably configured with accessories and the most common options.

**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 #: CHKF13212.

**About Buyers Laboratory:** Buyers Laboratory (BLI) is the world's leading independent provider of analytical information and testing services to the 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. BLI also offers private, for-hire testing services that help manufacturers develop and market better products and consumables.



### **KEYPOINT INTELLIGENCE - BUYERS LAB • NORTH AMERICA • EUROPE • ASIA**

**Gerry Stoia**, CEO

Deanna Flanick, CRO

Brian O'Connor, CFO

**Jeff Hayes** Managing Director Jeff.Hayes@keypointintelligence.com

**Randy Dazo** Group Director, Office Technology & Services Group Randy.Dazo@keypointintelligence.com

Jamie Bsales Director, Solutions Analysis Jamie.Bsales@keypointintelligence.com

**George Mikolay** Associate Director, A3/Production George.Mikolay@keypointintelligence.com

Marlene Orr Director, Printers/A4 MFP Analysis Marlene.Orr@keypointintelligence.com

**Carl Schell** Managing Editor Carl.Schell@keypointintelligence.com

#### U.S. ANALYSTS

**Kris Alvarez** Editor Kris.Alvarez@keypointintelligence.com

Lee Davis Editor, Scanners/Software Evaluation Lee.Davis@keypointintelligence.com

Kaitlin Shaw Editor, Printers/A4 MFPs Kaitlin.Shaw@keypointintelligence.com **Robert Watts** Editor, Software Evaluation Robert.Watts@keypointintelligence.com

### EUROPEAN ANALYSTS

**Priya Gohil** Senior Editor Priya.Gohil@keypointintelligence.com

Simon Plumtree Senior Editor Simon.Plumtree@keypointintelligence.com

Andrew Unsworth Associate Editor Andrew.Unsworth@keypointintelligence.com



**Pete Emory** Director of U.S. Research and Lab Services

David Sweetnam Director of EMEA Research and Lab Services

#### COMMERCIAL

**Mike Fergus** Vice President of Marketing

**Gerry O'Rourke** Director, BLI International



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# Toshiba e-STUDIO6506AC

in BLI's in-house durability test



This is to certify that when subjected to a 540,000-impression and 54,000-scan Buyers Lab durability test, the Toshiba e-STUDIO6506AC proved to be a highly reliable product.

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