BLI

Toshiba e-STUDIO6570C*

75 PPM Black/65 PPM Color

Copier • Printer • Scanner • Fax

BUYERS LABORATORY
2014
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
Color Print/Copy Quality ....Very Good/Good
Black Print/Copy Quality..Very Good
Color Print/Copy Productivity.. Good
Black Print/Copy Productivity .... Good
Ease of Use...Very Good
Feature Set .... Good
Security Features.. Excellent
Accessibility Features .... Not Rated
Environmental Features .... Not Rated
Toner Yield...Very Good
Value ....Very Good

BLI RECOMMENDATION

The Toshiba e-STUDIO6570C, which is targeted to large work-groups, is based on an engine that proved highly reliable, completing a 250,000-impression durability test with just two misfeeds and no service required. In addition to reliability, the model stood out most for its ease of use. The control panel is simple to navigate, as is Toshiba's Universal Print Driver, which includes identical PCL and PostScript drivers. Moreover, Toshiba offers several optional e-BRIDGE print driver plug-ins that add advanced functionality to the drivers. And on-the-fly toner replacement along with straightforward procedures for clearing misfeeds contribute to less downtime. Another highlight is the device's image quality, particularly in black mode and color print mode. For environments with more graphics-intensive printing needs, an optional Fiery print controller and Pantone-matching software (e-BRIDGE Color Profiler) are available. Additionally, the device's embedded e-BRIDGE Open Architecture platform enables seamless integration with third-party solutions. Taking into account all aspects of performance, BLI highly recommends the e-STUDIO6570C for an average optimum monthly volume of 90,000 impressions.

Test duration: Two months, including a 250,000-impression durability test.

Manufacturer's maximum monthly duty cycle[1]: 225,000 impressions.

Average optimum monthly volume for models in this speed range: 90,000 impressions[2].

*Reliability, scan, image quality and toner yield results are based on the performance of the Toshiba e-STUDIO6560C, which uses the same engine.

[1] The manufacturer's maximum monthly duty cycle is the maximum volume, as specified by the vendor, that the unit is capable of producing in a month; however, it isn't recommended that the unit be run at this volume on a regular basis.

[2] Based on a survey conducted by BLI. When comparing models, note that this optimum volume was instituted in May 2012. Optimum monthly volumes for models tested prior to May 2012 may be higher or lower.

STRENGTHS

- Highly reliable

- Priced lower than the competitive average

- In print mode, text and solids received BLI's highest rating, business graphics were bright, images were smooth and flesh tones were natural

- Fast color first-copy times from the document feeder

- On-the-fly toner replacement and simple procedures for clearing misfeeds maximize uptime

- Print drivers are easy to install and use; Universal Print Driver includes identical 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

- 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

- Tested black and cyan toner yields were higher than average and exceeded their rated yields; cyan exceeded its rated yield by nearly 20,000 impressions

- Higher than average paper weight support from the drawers

WEAKNESSES

- Below average productivity when copying color sets in 1:2 mode

- Slower than average black and duplex color scan speeds; larger than average color file sizes

- Default hole punch and job skip settings can result in paper waste

- If incompatible settings are selected, the print driver will automatically select/deselect a setting based on the job type, which could cause errors in print jobs

- Provides an RADF, whereas most competitive models offer a DSPF; document feeder capacity is also below average

- Tested magenta and yellow toner yields are lower than the competitive average and fell short of their rated yields

TEST RESULTS AND OBSERVATIONS

+, − and ○ represent positive, negative and neutral attributes, respectively.

△▽ **RELIABILITY**   EXCELLENT

+ The Toshiba e-STUDIO6570C is based off an engine that experienced only two misfeeds over the course of its 250,000-impression reliability test.

### MULTITASKING   GOOD

○ Jobs are processed on a first-in, first-out basis.

+ The number of print and copy jobs that can be stored in the queue while a copy or print job is in progress is limited only by memory capacity.

+ It takes 4.28 seconds to download 15 print jobs to the device, which is considerably faster than the average for models tested to date.

○ Users cannot program ahead while pages of a job are being scanned through the document feeder. Once the document feeder is free, users can scan to email while a job is in progress.

— When the device misfeeds, users cannot access any functions of the control panel until the jam is cleared.

○ When there is a misfeed, print jobs are still downloaded from the network.

+ While the device is out of paper, users can still send scan jobs, and print and copy jobs are still saved in the queue.

○ Secure print jobs can be released while the device is outputting standard print jobs.

+ Users can interrupt a print or copy job to output an immediate copy job; interrupt supports selections for duplex, staple, document feeder and multi-set. Once the interrupting job is complete, the interrupted job resumes automatically after about 20 to 30 seconds, with no need for user intervention.

○ As soon as users press interrupt, the device pauses the current job; some devices allow the job to continue running until the user presses "start."

○ There is a job skip capability that allows other jobs to run when resources for a particular job are depleted, however it is turned off by default.

— BLI technicians noticed that when the hole punch capacity was full, by default the device would continue to output jobs without hole-punched sheets, resulting in wasted paper. This can be turned off in the web utility. However, if job skip is turned off, and the hole punch waste is full, jobs will back up in the queue. The ideal setting for this is to have job skip on, and "continue when hole punch bin is full" off.

ADMINISTRATIVE UTILITIES

VERY GOOD
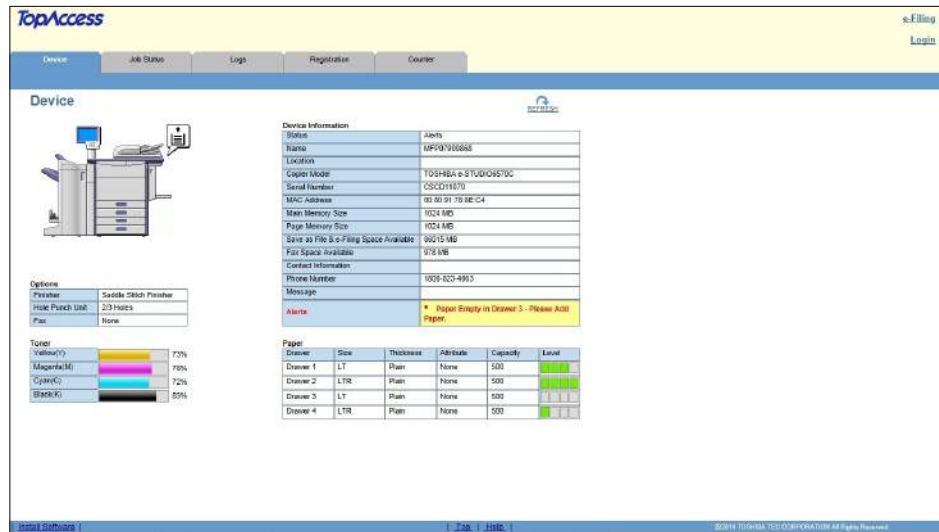
TopAccess, the Embedded Web Utility

+ TopAccess, the embedded web utility, is easy to use overall. Administrators can view device status, job lists, and counters; configure settings; manage user/group/roles/departments; update the address book; register and modify templates; and download client software.

— BLI technicians found some aspects of the menu structure of the web utility difficult to navigate. For example, LDAP is labeled "directory services," and buried under several sub-menus.

○ Users can program destinations into the address book from the web utility.

+ LDAP search is supported from the web utility, so users can remotely add and edit destinations from the LDAP servers, which is a valuable time saver and prevents errors in 2 destinations that would otherwise be manually entered.

+ Users can clone device settings from one device to another via the web utility. Settings available include accounting, print settings, authentication, fax, job management, network scanning connectivity and security.

○ TopAccess indicates the amount of toner remaining in 1-percent increments, while paper remaining in each drawer is indicated in 25-percent increments.

○ Gauges for the drums are not provided in the web utility, nor are there gauges for the waste toner container, fuser or staple cartridge.

+ Email alerts can be sent to the administrator when consumables are depleted and errors occur, as well as when scan jobs are completed and faxes are received. Up to three key operators can receive email alerts via the web utility.

○ Email alerts cannot be set up for when print or copy jobs are completed.

+ TopAccess also offers status information on currently running and pending print, copy, scan and fax jobs. Job priority can be changed and pending jobs can be deleted. Details on the job list include document name, date, time, type, status, paper, pages, sets and user name.

○ Job log information is not consistent from log to log. For example, while the print log uses codes to indicate incomplete jobs, the scan log has more specific details pertaining to why a job was not completed.

+ Administrators can export job history as a CSV or XML file, a capability not available on some competitive machines.

+ Electronic meter counters available from TopAccess include information on prints, scans, faxes and copies for both small and large paper. Additional counters provide usage specific to different departments.

— TopAccess does not support the direct printing of files.

+ Copy, print, scan and Internet fax jobs can be stored on the unit with the e-Filing feature, as well as viewed and merged within TopAccess. Furthermore, users can pull the merged jobs back to their desktops as single- or multi-page PDFs or single-page TIFFs. The optional e-Filing system provides public and private storage for documents. All users have read and write access to the public box where they can store documents they wish to share with other users. Users can store confidential information in one of the 200 private user boxes, which can be secured with a password and managed by each user.

○ Users can create up to 100 folders in both the public and private user boxes, but they cannot create subfolders within folders.

+ Documents can be stored directly in either type of box, and also in folders within the boxes. Up to 400 documents can be stored in each box and folder, while each document can contain up to 1,000 pages. Documents can be retrieved from the control panel or via the user's PC.

+ e-BRIDGE Fleet Management System (eFMS) is available from Toshiba dealers, direct sales and resellers. The software allows administrators and service providers to remotely configure, manage and monitor all networked Toshiba devices; information about third-party devices is limited, which is common. Devices can be grouped by location, department and cost center, among other designations.

+ eFMS can automatically generate usage reports and email them directly to a designated person. They can be exported to Excel or as a PDF with graphs, and organized by month, year, location or cost center.

+ eFMS can be configured to send pop-up messages and email alerts to key operators when a paper jam or other warning conditions arise. In the case of more severe technical difficulties, an email can be sent directly to the dealer or other service provider.

+ The e-STUDIO6570C offers 1,000 department and 10,000 user codes.

⚠   **FEEDBACK TO WORKSTATIONS**   GOOD

+ DocMon, which is available as a free download on Toshiba's website, enables pop-ups and audible alerts for print job completion and deletion; when secure print jobs are being held; when faxes are transmitted or cancelled; when the device misfeeds or an error occurs (including open door alerts); when the device is out of paper or toner; when toner is low or the waste container is full or near full; and when the printer is offline. All pop-up messages appear in one window and users can configure their own settings for how and when they're notified.

○ The DocMon Utility also offers information on paper supply (the size in each drawer and if the drawer is full or empty) and toner supply in 1 percent increments.

○ The drivers illustrate the paper size loaded in each drawer, but do not provide toner and consumables status directly. However, they do include a link to TopAccess, the embedded web utility, which provides device information and status; the paper size in each drawer and amount in 25 percent increments; the amount of toner remaining in 1 percent increments; and the status of print, scan and fax jobs.

⚠   **EASE OF NETWORK SETUP**   GOOD

○ The Universal Print Driver, scan utility, fax driver and user manuals are all included on one CD, and can also be downloaded via Toshiba's website. Setup for printing is highly automated. Users can select to install everything at once, or select the drivers to install separately. The software auto-detects that the unit has been installed on the network and automatically creates the port for network printing.

+ Toshiba's Universal Print Driver, which is an all-in-one driver that includes both PCL and PostScript, simplifies setup for administrators, as it requires them to install only one driver that includes both driver languages. Nine clicks are required to install the Universal Print Driver.

+ Configuring network settings via the control panel is simple.

− Setup procedures for network configuration via the web utility, including LDAP, scanning and the address book, are more difficult than with the majority of competing devices. The setup process is lengthy, as operators must navigate through multiple screens and tabs within the web utility.
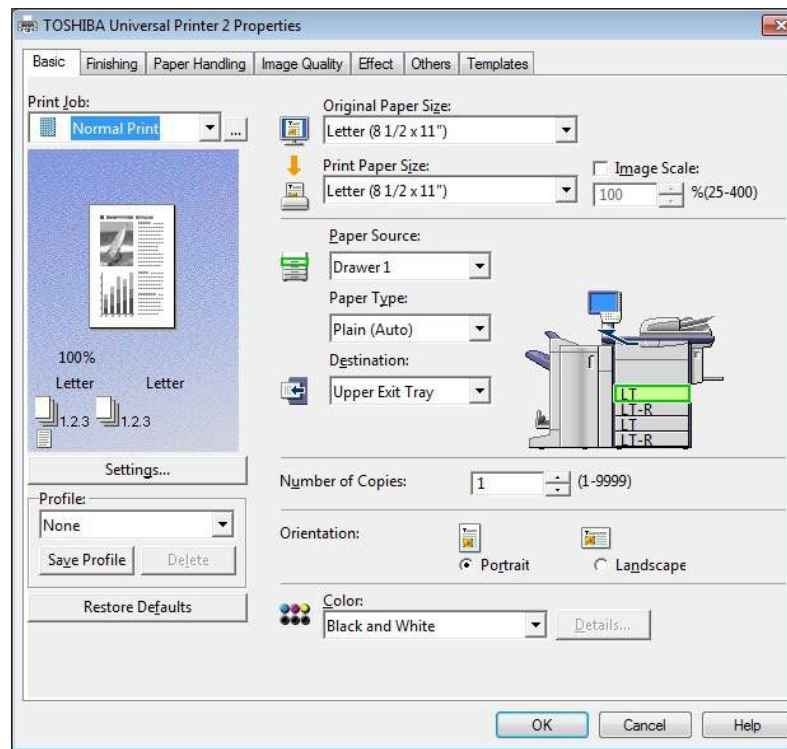
△ ▽   **PRINT DRIVERS**   VERY GOOD

○ The device ships with Toshiba's Universal Print Driver, which includes PCL 6 and Post-
Script 3.

+ Thanks to the Universal Print Driver, the PCL and PostScript drivers are identical in
appearance.

The Universal Driver

+ An optional EFI Fiery print controller, which offers an 80-GB hard drive, 512 MB of stan-
dard memory and 1 GB of maximum memory, is available for more graphics-intensive
environments. The Fiery controller includes EFI Command WorkStation, as well as
optional Hot Folder, Spot On, In-RIP, Auto Trapping and e-BRIDGE Color Profiler, which
enables users to match a wide array of recognized Pantone color palettes.

○ The standard drivers include seven tabs: Basic, Finishing, Paper Handling, Image Qual-
ity, Effect, Others and Templates. Some commonly used features, such as paper source
and size, exit tray, orientation, color mode and quantity are located on the basic tab.
Users must navigate to the finishing tab in order to access functions such as duplexing
and stapling.

+ The help button, which is located on every tab in the driver, is dynamic and relates
directly to the selection that the user is currently in, making it easy to understand what
each driver function is used for.

— However, switching between the PCL and PostScript drivers is inconvenient, as users must completely close out of the driver they're in, then locate the driver they are switching to and re-open.

— If incompatible settings are selected, the driver will automatically select/deselect a setting based on the job. However, it does not notify the user that changes were made, which may cause errors in the print job.

○ It takes 7 clicks to program a typical print job from either driver and 8 clicks to program a booklet print job.

+ The drivers support point-and-click selection of paper source and output tray.

○ The drivers display a graphical job review of programmed settings. Clicking on the settings button underneath brings up a pop-up window with job and device settings in text form.

+ The templates tab features five presets (black and white, duplex, staple and 2-in-1; color booklet; duplex and staple; duplex, staple and 2-in-1; duplex, staple and hole punch) and one blank template. The settings of each template can be changed.

+ Users can select which tab they want to open first as their default setting.

+ Users have the ability to save and edit up to 20 profiles (five of which are defaults) for commonly run job types, accessible on every tab of the driver.

+ Advanced features under the Print Job pull-down menu include Scheduled Print, Proof Print, Private Print, Hold Print, Print to Overlay File, and Store to e-Filing, which allows users to store print jobs to electronic mailboxes. Users can also select "Multiple Job Type," which combines any of the other available print types with Store to e-Filing.

+ Private (secure) print jobs can be accessed at the device via the Print hard key. No details other than the job origin (device name) are visible in the queue. Once a PIN is entered, any jobs sent with that PIN are revealed; multiple jobs with the same PIN can be released simultaneously. Once they are released (five steps), jobs are sent to the public queue, where details are once again hidden. Jobs cannot be deleted without entering a PIN.

○ Settings of secure print jobs are programmable only via the driver and cannot be changed at the device.

○ The drivers do not support the ability to set up jobs with exceptions.

○ Duplex mode can be set as the default print mode.

+ The Paper Handling tab allows users to include front and back covers, as well as to insert pages and print onto tab extensions. The procedures for setting up covers and tabs are simple. Users can also customize the paper source and paper type, with all four sources available.

+ The device supports printing onto tabs via the drivers. Tab paper must be fed through the bypass.

+ Tandem printing, which is standard, allows large print jobs to be distributed between two network printers for faster completion.

+ Toshiba offers four optional plug-ins for the Universal Driver. The Job Build plug-in lets users combine different file types and print as one file with the same settings; Job Separator lets users print multiple sets of a job with separator pages after a set number of sets; Job Replicator lets users print the same document from multiple paper sources at once with original print settings; Job Point lets users split jobs over up to 10 Toshiba devices across a network.

△ ▽   ## SCAN FUNCTIONS   GOOD

○ The Toshiba e-STUDIO6570C's rated scan speeds are up to 77 ipm in color and black. The device's tested scan speeds are competitive in simplex color mode.

— However, tested scan speeds are slower than average for the competitive group in all other modes tested (black and duplex color).

○ While there is no compression offered in black mode, file size is competitive.

— However, color file size is larger than average compared with copier-based MFPs tested to date.

○ Users can scan to email, network folders, device (e-Filing), WS scan and USB; only two destination types are supported at once. All destinations are accessible from the same screen.
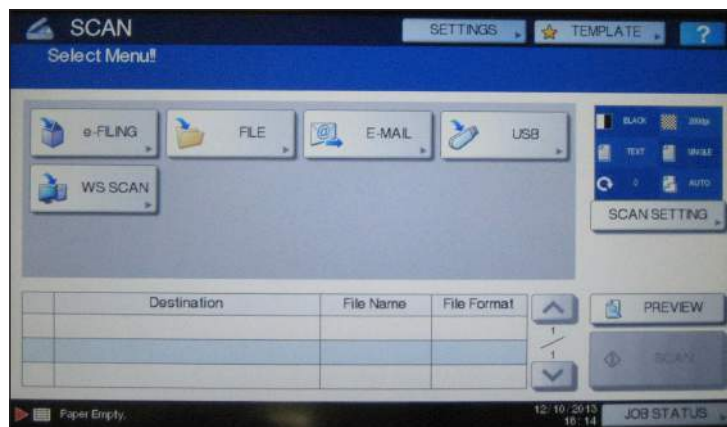
The Scan Menu

○ File formats supported include PDF, compact PDF, TIFF, XPS and JPEG.

— Searchable PDF mode is not supported as standard.

○ Toshiba's optional Re-Rite software allows users to convert paper documents into a wide range of editable file formats and then distribute those files to a shared network folder, an email address or both.

○ Frequently used destinations can be programmed as favorites.

+ The QWERTY keypad for scan to email is large and includes a range of symbols, including @ and various others, eliminating the need to press the shift key to select the desired symbols. BCC and CC are supported.

○ The device offers a thumbnail view of programmed scan settings.

— Scan settings don't clear automatically after a job is programmed.

○ Preview is available for scan jobs. Users can delete, insert or replace pages and zoom in and out. Job build is also available from the preview screen, but users may not notice the feature is available. Users can change settings for each new batch of documents scanned and added to the job build. Once a user hits "OK" in preview, it sends the job with no warning and all of the settings remain on screen, so there is no clear indication whether or not the job sent, which may cause a user to do it all over again.

+ Background suppression and blank page removal modes are supported.

+ The unit supports up to five LDAP servers. Users can search LDAP by email address, first or last name, corporation or department.

○ Addresses located via LDAP can't be automatically stored locally. Destinations have to be manually programmed at the control panel or in TopAccess to be stored in the address book.

+ The procedure for locating email addresses via LDAP is very simple, requiring six keystrokes to perform a scan-to-email job using LDAP support when sending to one destination.

— Users can add details to address book entries, such as first/last name, fax, email, company department and keyword, but can only see those details if editing the address book, which is in the user functions menu. Otherwise, the only visible details are the name and email address, even when selecting a fax destination.

○ Scan to and print from USB are disabled by default for security reasons; for customers that wish to use this capability, the installing dealer must turn it on before the device is deployed.

— However, if scan to and print from USB is disabled, the device does not clearly relay this to users; when a flash drive is inserted, the menu is available, but settings cannot be located.

— When users plug in a USB memory device, the menu to print/scan doesn't automatically appear.

+ Scan to USB supports TIFF, PDF, encrypted and compact PDF, JPEG and XPS. Users can browse into subfolders, and select any of the scan settings for a typical job, including blank page removal and preview mode.

○ Print from USB supports PDF, XPS and JPEG file formats, and only displays files in those formats. Users can browse into subfolders, select and print multiple file/file types at once, and select settings such as duplex, finishing features, media source and quantity.

○ Print from USB does not support preview, color/mono selection, blank page removal or program ahead.

△▽　IMAGE QUALITY

Color Print/Copy Quality   VERY GOOD/GOOD

+ Business graphics were bright and well saturated in print mode, with above average reproduction of light backgrounds. Production of pastel shades, sharpness of fine details and consistency of coverage were competitive. The full range of halftones was visible in printed photographic images, with distinct separation between each level. Images were smooth, sharpness of fine details was competitive and flesh tones had a natural appearance.

○ In copy mode, business graphics were bright, while production of pastel shades, sharpness of fine details and consistency of coverage were competitive. However, reproduction of light backgrounds was below average. Flesh tones were natural-looking in photographic images. Smoothness was competitive, however halftone levels were hard to distinguish above the 90% fill level.

Black Print/Copy Quality   VERY GOOD

+ Printed text and solids received excellent ratings. Text was dark, smooth, sharp and fully formed. There was no evidence of haloing or toner overspray in neither text nor line art. Solids were dark and consistency of coverage was above average.

+ Line art was very good in both print and copy modes. Though an average amount of stair-stepping in diagonal lines was detected in print mode, circles were fully formed and production of closely spaced fine lines was above average, as was consistency of line thickness. In copy mode, no stair-stepping was detected and production of closely spaced fine lines and consistency of line thickness were competitive.

○ In copy mode, text and grayscale fill were rated good. Text displayed competitive dark-

ness, character formation and smoothness of curves and serifs. However, sharpness of text was below average. And while no banding was detected in grayscale fill, some blotchiness was noted.

+ Grayscale range was very good in both modes. Grayscale was visible over the entire measured range in copy mode and nearly the entire measured range in print mode. There was distinct separation between most visible levels in print mode and all visible levels in copy mode. Separation was lacking above the 90% level in print mode, while grayscale was light at the 15% level in copy mode.

+ Copied solids were dark and consistency of coverage was competitive.

+ In print mode, grayscale fill was smooth and no banding was detected.

△▽ **PRODUCTIVITY**

Color Print/Copy Productivity   GOOD

○ When printing BLI's job stream test, which simulates typical traffic in a busy workgroup environment, the Toshiba e-STUDIO6570C's productivity is competitive when using the PCL driver.

— However, job stream productivity is below average when printing from the PostScript driver.

○ Productivity is competitive when copying sets in 1:1 and 2:2 modes.

— However, productivity is below average when copying sets in 1:2 mode.

○ Productivity is competitive when printing simplex and duplex sets.

+ First-copy time from the document feeder is faster average.

○ First-copy time from the platen is competitive.

Black Print/Copy Productivity   GOOD

○ When printing BLI's job stream test from the PCL driver, productivity is competitive.

— From the PostScript driver, however, job stream productivity is below average.

○ Productivity is competitive when copying multiple sets in 1:1 and 1:2 modes. In 2:2 mode, speed is competitive, but efficiency (the percentage of its rated speed at which it runs) is below average.

○ Productivity is competitive when printing both simplex and duplex sets.

○ First-copy times are competitive from both the platen and document feeder.

⚠ **EASE OF USE**   VERY GOOD

+ The e-STUDIO6570C's color touchscreen control panel is logically organized and features hard keys to access the main functions and touchscreen selections for each menu. The display was bright at default settings, but is also adjustable via the user functions hard key. A question mark icon provides dynamic help related to the menu or sub-menu a user is currently in.

The e-STUDIO6570C's Control Panel

+ The control panel tilts up and down freely.

○ The copy menu features three tabs (basic, edit and image), and all the most commonly used copy features are accessible, if not programmable, from the basic tab, including duplex, finishing, exposure, paper drawers and reduction/enlargement. When the reduction/enlargement, finishing, duplex and text/photo options are selected, users are taken to sub-menus to complete their selections.

+ Paper source and exit tray can be selected directly from the graphic of the device on the basic tab. The paper drawer graphics indicate the paper levels remaining in each drawer. Proof copy is also selectable from the basic tab, as is exposure, with adjustments for darkening or lightening the image, as well as an auto exposure setting.

+ Touch keys for storage and template are 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. Up to 12,060 templates can be stored to enable one-touch access to frequently used settings for copy, scan and fax jobs.

○ The settings touch key serves as a convenient location for users to view all selected settings for the current job being programmed. Shortcuts to each of the menus in which a setting is currently selected are also provided, so that users can conveniently change the current settings, if desired.

+ The control panel's menu hard key can be used to set up to 64 user-specific templates; these templates are among the 12,060 templates that can be created from the control panel. When a user presses this hard key, his or her templates will be displayed, as will counter information specific to that user. In addition, the menu hard key will show any restrictions an authenticated user has. If any embedded applications are installed, they will be accessible from here as well.

+ The Job Status key opens up the device's highly detailed job queue. Copy and print are combined in one queue, while separate queues are available for scan and fax. Users can delete and pause jobs stored in the queue. In the combined print/copy queue, the user name and date/time of each job is indicated, as are the number of sets for each job. The number of originals in print and copy jobs is also indicated.

○ The Counter hard key provides information on copy, fax, print and scan jobs for black and full color, and can be printed.

+ Via the Edit tab, job build is available using both the feeder and the platen. Users can scan groups of originals with different settings, such as quantity, color mode, reduction/enlargement and simplex or duplex, to be printed as one document. In addition, if the number of originals in a job exceeds the document feeder capacity, pages can be scanned in two or more batches and combined.

○ In job build, stapling is only selectable when programming the first set of originals and is grayed out thereafter. If users do not select it on the first batch, but wish to add stapling later on, they must start the job build process over. Additionally, job build does not support automatic paper selection, and therefore cannot accurately copy mixed-size originals. So, if a user programs a letter-size job and then a legal-size job, both jobs will print on letter-size paper. While this is comparable to competitive machines' job build, BLI technicians feel that these features could be improved. Users must select the "Job Finish" touch key, which is small and easy to overlook, in order for a job build job to begin outputting.

+ The Edit tab is also where users can program additional job settings such as Omit Blank Page, Outside Erase, Time Stamp and Page Numbering.

○ Loading paper into the device's user-adjustable drawers is fairly straightforward; the drawers feature sliding length guides, while width guides must be unlocked and re-locked in order to adjust paper size. Paper sensors to automatically detect when paper size has been changed are supported as well.

Loading paper

○ Users must confirm paper size and type at the control panel via a screen that pops up when the drawer is closed.

+ The drawers include easy-to-see paper limit indicators.

○ The bypass tray is automatically selected when paper is loaded but users must select the correct size. Auto tray switching has a separate on/off setting for print and copy jobs. Most devices have one setting for both print and copy.

○ In default mode, users must release each job from the print queue at the control panel when printing to the bypass tray. According to Toshiba, this is done to eliminate the pos-sibility for another user to accidently pull specialty media for their normal job.

— A service call is required to make the bypass tray auto feed, which allows jobs using the bypass tray to be released automatically if the paper selected in the driver matches up with the paper loaded in the bypass tray. BLI technicians would prefer that administra-tors had the ability to change this setting.

+ Access to misfeed areas, which are well labeled and clearly identified, is above average. The machine provides step-by-step, dynamic instructions for misfeed removal on the display screen.

Clearing a misfeed from the finisher area

○ Consumables do not need to be removed in order to gain access to misfeed areas, however the finisher must be removed in order to access misfeeds that occur on the left side of the machine, which expands the space needed to accommodate the device.

+ The Toner tab accessible via the Job Status key indicates the amount of toner remaining in 1-percent increments.

+ The device offers on-the-fly toner replacement, which means less downtime.

Toner replacement is easy and can be done on-the-fly.
Instructions on toner replacement are provided onscreen and on
the inside of the cover of the device.

— By default, copy and print jobs can be moved in queue, but the process is more limiting than with most competitive devices. The first 10 jobs in the queue cannot be moved. Subsequent jobs that fall in line after the first 10 can be moved up, but the highest position in the queue they can be moved to is the 11th position, because, as noted, the order of the fist 10 jobs cannot be changed. As jobs are processed on a first-in, first-out basis, the only way for walk-up users to promote their copy jobs is to interrupt the current job. During installation, service can change a setting to specify the position in the queue where jobs can begin to be promoted; for example, the job in slot two could be moved up to be output next.

+ The unit has a job recovery feature for a misfeed in the RADF; once it's cleared and the sheet is reinserted, the job will automatically continue rather than be deleted.

⚠ **FEATURE SET**   GOOD

○ The e-STUDIO6570C has a standard paper capacity of 2,160 sheets (not including the bypass), which is below average when compared to the competitive group. However, Toshiba also offers a T (tandem) configuration that provides a standard paper capacity of 3,400 sheets, which is slightly above the competitive average.

+ Paper weight support from the drawers (140-lb. index) is higher than average.

— Both the T and non-T configurations offer below average maximum paper capacities.

○ Bypass capacity (100 sheets) is competitive, as is paper weight support.

○ The device has non-upgradable hard drive and memory capacities of 320 GB and 2 GB, respectively, which are competitive when compared to the group's standard offerings, but slightly below average when compared to the maximum capacities of the group.

— The unit provides a standard RADF, while many competitive devices offer a DSPF, which helps to reduce wear and tear on originals by enabling both sides of two-sided originals to be scanned in a single pass. Additionally, the document feeder's 100-sheet capacity is below average.

+ An optional EFI Fiery print controller, which offers an 80-GB hard drive, 512 MB of standard memory and 1 GB of maximum memory, is available for more graphics-intensive environments. The Fiery controller includes EFI Command WorkStation, as well as optional Hot Folder, Spot On, In-RIP, Auto Trapping and e-BRIDGE Color Profiler.

○ Finishing options include 3,250-sheet staple and saddle-stitch finishers with multi-position stapling. The saddle-stitch finisher saddles stitches up to 15 sheets to make 60-page booklets. Optional hole punch units are available for both finishers.

○ Other copy features include interrupt, job build, stamping, and reduction and enlargement from 25% to 400% in 1% increments.

+ The device offers 1,000 department/10,000 user codes. In addition, up to 12,060 templates can be stored to enable one-touch access to frequently used settings for copy, scan and fax jobs.

+ Toshiba's open platform architecture allows optional Toshiba and third-party solutions to be embedded for direct access from the control panel.

○ The 33.6-Kbps fax option offers 12,060 speed dial destinations, batch files, polling, battery backup, confidential transmissions and receptions, and incoming fax routing to shared folders, email or e-Filing. A second fax line, which would allow simultaneous transmissions and/or receptions, is available as an option.

+ In addition to the standard 10/100/1000BaseT Ethernet interface, organizations can add an optional wireless (802.11b/g/n) interface. The device also supports mobile printing.

△ SECURITY FEATURES   EXCELLENT

AUTHENTICATION	
Network user authentication at control panel	Yes (up to 16 servers)
Windows	Yes
Novell NetWare NDPS	Yes
LDAP	Yes
Kerberos	Yes
802.1x wireless	Yes
SMTP	Yes
POP before SMTP	Yes
Biometric	No
ID Card	Yes
HID	Yes
Common Access	Yes
Other	CAC
Registered department or user ID codes	Yes
Number	10,000 users/1,000 departments
ACCESS CONTROL	
Restrict color	Standard
Control panel lock/disablement	Standard
Restrict access to address book	Standard
Restrict USB port	Standard
Restrict direct printing	Standard
Restrict other	Various
HARD DRIVE	
Encryption	Standard, FIPS 140-2 Certified
Maximum level	AES 256 Bit

Overwrite	Standard
Method	Compliant with DOD
Maximum number after a job	15
Maximum number at end of lease	15
Lock	NA
Removable	No
Password-protected mailboxes	Standard
Data auto-deletion in mailboxes	Standard
JOB TRACKING	
Job logs	Standard
Digital signature	No
Verify document came from device	Yes
Verify document came from specific user	Yes
JOB PROTECTION	
Encrypted secure print	Yes (PDF direct print)
Secure print	Yes
Encrypted scanning	Standard
Maximum level	AES 128 Bit
For scan to USB	Yes
Unauthorized scan/copy protection block (watermark)	Standard
Compatible with same-brand devices	Yes
Compatible with third-party devices	No
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	3
Capabilities certified	Entire security suite
FIPS 140-2	Yes
Level	2
IEEE 2600	Yes
OTHER	
Administrator password length	Up to 64 alpha/numeric characters
Password-protected web server	Yes
Additional features	Password policy
Third-party features	FollowMe, PaperCut, Pharos Blueprint

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

⚠ ACCESSIBILITY FEATURES   NOT RATED

Accessibility handle	Optional
Braille label kit	No
Enlarged display mode	No
Remote operator software	No
Tilting control panel	Yes
Voice guidance (audible instructions)	No
Voice operation (responds to voice commands)	No

⚠ ENVIRONMENTAL FEATURES   NOT RATED

Specified capable of running 30% post-consumer recycled paper	Yes
Specified capable of running 50% post-consumer recycled paper	Yes
Specified capable of running 100% post-consumer recycled paper	Yes
Instant/Quick Fusing	Yes
Duplexing	Yes
Toner-save mode	Yes
Energy-save mode/modes	Yes
RoHS compliant	Yes
Percentage of this product that is made with recycled materials/parts	4.2
Are recycled materials taken from previous devices that have been returned by your customers	No
Are recycled materials taken from post-consumer materials	Yes
Are recycled materials taken from pre-consumer materials	Yes
Are recycled materials taken from bio-based materials	No
Product designed for recycling (easily disassembled, no binding agents)	Yes
Hardware remanufacturing program for this product	No
Toner cartridge recycling program for this product	Yes
Pre-paid label for return of toner cartridges/bottles for this unit	Yes
Toner recycling system	No
Ability to program features such as duplexing and auto shut-off over entire fleet	Yes
What tool can be used to do this?	Top Access, e-BRIDGE Fleet Management System
Green packaging materials for the product	Yes
Green packaging materials for its consumables	Yes
Packaging materials used	Fiberboard (made from recycled paper), EPS and plastic bags
Eco-Label Certifications	
ENERGY STAR	Yes
Other	ECMA-370/The Eco Declaration, Germany Blue Angel, Japan Eco Mark, Nordic Swan label, Taiwan Green Mark, Chinese Environmental Labeling, Chinese Low Carbon and Environmental Labeling and China Energy Conservation Product certification

Tested energy consumption levels of the device (watts):	
Ready/Idle	1,000
Energy-save	80
Sleep mode	1
During Printing	1,200
How fast can this product be programmed to go into the following modes:	
Ready/Idle	35 seconds
Energy-save	NA
Sleep mode	60 seconds
Can the above settings be programmed by a walkup user	Yes
First-print time after being in sleep mode (seconds)	26 seconds
Emissions output from this device for the following substances (mg/h):	
Ozone	<1
Styrene	<0.5
Benzene	0.04
TVOC	<10
Dust	<0.5
Other	NA

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

△ ▽ TONER YIELD VERY GOOD

+ Tested black and cyan toner yields are higher than the average of their competitive groups and also exceeded their rated yields. In fact, cyan exceeded its rated yield by nearly 20,000 impressions.

— Tested magenta and yellow toner yields are lower than the competitive average and fell short of their rated yields.

△ VALUE VERY GOOD

+ Priced 15 percent lower than average when compared to comparably configured models in its class, the Toshiba e-STUDIO6570C provides a very good value given its performance and feature set.

SUPPORTING TEST DATA

Test Environment: This product was tested in BLI's 10,000-square-foot U.S. test lab, in an environment monitored by an Extech RH S20 Digital RH/Temperature Recorder and Honeywell Model 61 Seven-Day Temperature/Relative Humidity Chart Recorder. All products lab tested by BLI are powered by dedicated circuits that are protected by ESP (Electronic Systems Protection, Inc.) surge protectors to prevent transient power and communication disturbances from affecting equipment under test.

Test Equipment: BLI's dedicated test network, consisting of Windows 2003 and Microsoft Exchange servers, Windows 7 workstations, 10BaseT/100BaseTX network switches and CAT5 cabling.

Test Duration: 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 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 20 percent of the monthly maximum volume, evenly divided over the course of the test. Imaging media includes 20-lb. virgin letter, legal and ledger multi-use paper with up to 80% of the volume generated on letter, 10% on legal and 10% on ledger. Recycled multi-use paper comprised of 30%, 50% and 100% post consumer waste is also tested for up to 10% usage of each of the recycled media types.

Tested Configuration: Lab tested the e-STUDIO6560C T (tandem) configuration with optional 2,500-sheet LCT, saddle-stitch finisher and hole punch unit; field tested the e-STUDIO6570C with booklet finisher and hole punch unit

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. Along with a visual observation, color print quality is tested using the ANSI standard IT8 Color Test Target, which is read using the Minolta CM503i Spectrophotometer, and samples are analyzed using the CIE XY Chromaticity Diagram. Additionally, density of black and color output is measured using an X-Rite 428 Densitometer. Georgia-Pacific Spectrum Multi-Use 20-lb. bond is used in the tests, 10 percent of which is recycled paper containing 30 percent post-consumer content. Image quality is tested using Georgia-Pacific Printing Paper (95 brightness, 22-lb. bond). Units are tested for compatibility on Windows 7 with Microsoft Office Suite 2010, as well as Adobe Acrobat Reader 10.0.

BUYERS LABORATORY LLC • North America • Europe • Asia

Gerry Stoia, CEO

Anthony F. Polifrone, Managing Director

Gerry O'Rourke, Managing Director, BLI International

Patti Clyne, Senior VP of Sales

Daria Hoffman, Managing Editor

Dr. Simon Plumtree, European Managing Editor

Tracie Hines, Senior Editor, Competitive Analysis Reports

Jamie Bsales, Senior Product Editor, Solutions

George Mikolay, Senior Product Editor, A3 MFPs

Marlene Orr, Senior Analyst, Printers and A4 MFPs

Lisa Reider, Senior Product Editor, Scanners and Environmental

Carl Schell, Senior Writer

Priya Gohil, Senior Editor

Jessica Schiffenhaus, Associate Editor

Kaitlin Pendagast, Research Editor

David Sweetnam, Head of European Research and Lab Services

Pete Emory, Director of Laboratory Operations

Martin Soane, European Lab Manager

Pia Beddiges, Manager of Competitive Services

Anthony Marchesini, IT Director

T.R. Patrick, Art Director

RELIABILITY

Test Duration	250,000 impressions and 50,000 scans
Service Calls/PM	0
Misfeeds	2
Misfeed Rate	1/63,990

IMAGE QUALITY

Print Quality

Text	Excellent
Line Art	Very Good
Halftone Pattern	Very Good
Halftone Range	Very Good
Solids	Excellent
Color Business Graphics	Very Good
Color Photographic Images	Very Good
Color Shift	Good

Color Shift Readings

Test Point	Delta E	BLI Rating
62,500	4.37	Good
125,000	2.55	Very Good
182,500	3.04	Good
250,000	3.51	Good

Delta E is a colorimetric measurement assessing the distance between colors. The readings above reflect the average shift of the color gamut from the previous measured point.
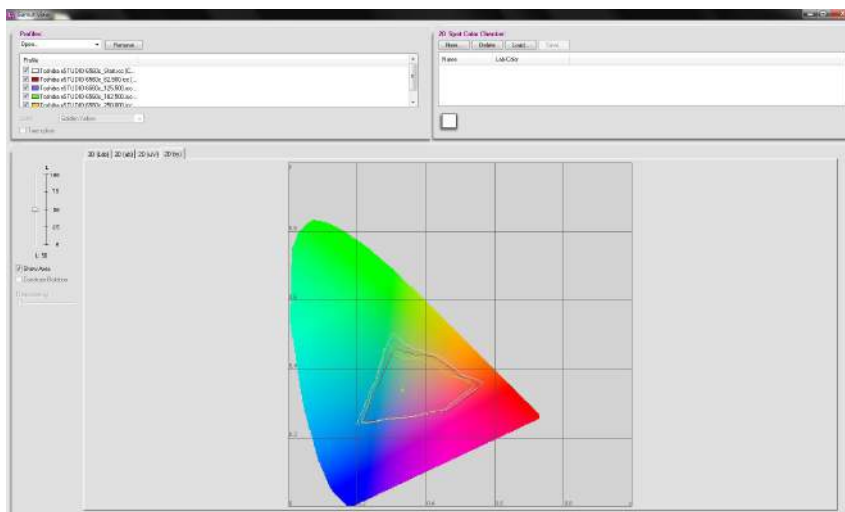
The unit exhibited a minor increase in gamut volume in the green-yellow regions of the spectrum after the start of testing, with all other areas of the spectrum remaining highly consistent over the test's duration.

Color Density Readings

Color	Yellow	Magenta	Cyan
Print Density	1.16	1.53	0.92
Competitive Average	0.90	1.18	1.09

Density of a printed image with blocks of all solid colors (based on the average of two readings for each color).

Print Density Range

Toshiba e-STUDIO6570C	1.47 to 1.51
Density for devices in this class tested to date	1.23 to 1.82

Measurements are based on four readings corresponding to four different solid black locations on output. The higher the density reading, the darker the image.

Print Density Average

Toshiba e-STUDIO6570C	1.49
Average density for devices in this class tested to date	1.48

The higher the density reading, the darker the image.

Halftone range:

Halftone output was visible from the 10% to 90% dot-fill levels, with distinct transitions between most levels.

Copy Quality

Text	Good
Line Art	Very Good
Halftone Pattern	Good
Halftone Range	Very Good
Solids	Very Good
Color Business Graphics	Good
Color Photographic Images	Good

Color Copy Density Readings

Color	Yellow	Magenta	Cyan
Original Density	0.99	1.29	1.33
Copy Density	1.00	1.28	1.34
Competitive Average	1.84	1.23	1.28

Density of copied image when tested in "Full Color" copy mode using a KATUN test original containing blocks of all solid colors (based on the average of two readings for each color).

Copy Density Range

Original	1.91 to 1.93
Toshiba e-STUDIO6570C	1.58 to 1.67
Density for devices in this class tested to date	1.15 to 1.80

Measurements are based on two readings corresponding to two different solid black locations on the output. The higher the density, the darker the image.

Copy Density Average

Toshiba e-STUDIO6570C	1.63
Average density for devices in this class tested to date	1.51

The higher the density reading, the darker the image.

Visible Halftone Range

Toshiba e-STUDIO6570C	15% to 100%
Halftone increments on test original	15, 29, 53, 77, 83, 91, 95, 100%

△ ## PRODUCTIVITY

Print Productivity

Average Print Productivity | Competitive Average

	SPEED IN PPM		PERCENT OF RATED SPEED	
AUTO COLOR				
1:1	**44.5**	44.5	**68.4**	66.7
1:2	**41.4**	42.1	**63.8**	63.1
BLACK				
1:1	**54.9**	54.3	**73.3**	72.4
1:2	**50.2**	50.2	**66.9**	67.1

Efficiency is tested using a 10-page full-color document and a 10-page black document. BLI obtains the overall efficiency 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) for each run length (1, 5 and 10 sets). The unit's efficiency was tested using the PCL driver.

Job Stream | Competitive Average

	SPEED IN PPM		PERCENT OF RATED SPEED	
PostScript				
AUTO COLOR	**16.0**	24.7	**24.5**	37.2
BLACK	**23.2**	29.3	**30.9**	39.2
PCL				
AUTO COLOR	**31.3**	32.3	**53.9**	54.8
BLACK	**40.5**	41.1	**48.1**	48.3

BLI's job stream includes Word documents, Outlook e-mail messages, Excel spreadsheets, PowerPoint, HTML and Acrobat PDF files, totaling 19 pages. This test simulates the type of traffic a typical device might experience in a real-world, multi-user environment. All of the 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. Job stream efficiency is determined by the percentage of the rated speed at which the device operates when producing real-world jobs. The closer the rate is to 100%, or if it exceeds 100%, the more efficient the device.

Copy Productivity

Average Copy Productivity | Competitive Average

	SPEED IN PPM		PERCENT OF RATED SPEED	
AUTO COLOR				
1:1	**44.7**	43.7	**68.7**	65.2
1:2	**29.6**	36.4	**45.5**	54.1
2:2	**46.8**	46.1	**72.0**	68.6
BLACK				
1:1	**55.5**	54.9	**74.1**	73.2
1:2	**51.1**	49.8	**68.1**	66.5
2:2	**52.3**	57.1	**69.7**	76.3

Efficiency is tested using a 10-page full-color document and a 10-page black document. BLI obtains the overall efficiency 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) for each run length (1, 5 and 10 sets). The unit's efficiency was tested using the PCL driver.

First-Copy Time in Seconds | Competitive Average

AUTO COLOR		
Platen	**7.64**	8.86
Document Feeder	**7.44**	8.32
BLACK		
Platen	**6.81**	6.84
Document Feeder	**7.72**	10.22

△ ## SCAN FUNCTIONS

Tested Scan Speed in IPM | Competitive Average

AUTO COLOR		
1:1	**62.8**	63.96
2:2	**50.4**	94.6
BLACK		
1:1	**61.9**	68.6
2:2	**50.7**	105.8

Files are scanned at 300 dpi in PDF format. Competitive averages represent the average scan speed for devices in this speed range tested to date.

Tested Scan File Size in KB | Competitive Average

Full Color (default compression)	**1361.92**	1102.03
Full Color (compact PDF)	**1157.12**	320.62
Black	**44.4**	275.67
Black (compact PDF)	**NA**	48.02

Testing is conducted with single-page files scanned at 300 dpi in PDF format.

△ PRINT DRIVERS

Windows XP	PCL	PostScript 3
Auto Feature/Device Detection	Yes	Yes
Blank Page Removal	Yes	Yes
Booklet Printing	Yes	Yes
Carbon Copy Mode	No	No
Collate Sets	Yes	Yes
Consumables Gauge	No	No
Cover Mode	Yes	Yes
Default Duplex	Yes	Yes
Delayed Print	Yes	Yes
Envelope Selection	Yes	Yes
Exception Programming	No	No
Max Paper Sources Per Job	4	4
N-up Printing	2 to 16	2 to 16
Overlay	Yes	Yes
Paper Gauge	No	No
Point Click Output Source	Yes	Yes
Point Click Paper Source	Yes	Yes
Poster Mode	Yes	Yes
Print and Hold	No (available via e-Filing)	No (available via e-Filing)
Print Text as Black	Yes	Yes
Proof Print	Yes	Yes
Quantity Selection	Up to 999	Up to 999
Reduction/Enlargement	25% to 400%	25% to 400%
Resolution Modes (dpi)	600, 1200	600, 1200
Save Settings	Yes	Yes
Secure Printing	Yes	Yes
Tab Printing	Yes	Yes

Windows XP	PCL	PostScript 3
Toner Save Mode	Yes	Yes
Watermarks/Custom Watermarks	Yes/Yes	Yes/Yes

⚠ **TONER YIELD**

Tested Toner Yield | Competitive Average

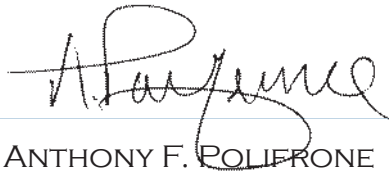|	Black		Cyan		Magenta		Yellow	
Tested Impressions	**79,786**	66,632	**49,421**	38,626	**26,793**	30,473	**26,793**	31,018
Rated Yield	**77,400**	61,164	**29,500**	33,986	**29,500**	33,986	**29,500**	33,986

Based on an average of two cartridges per color using BLI's toner yield test original with 5% page coverage.

Certificate of Reliability

Awarded to

Toshiba America Business Solutions, Inc.

for the performance of the

Toshiba e-STUDIO6570C

in BLI's in-house durability test.

ANTHONY F. POLIFRONE
MANAGING DIRECTOR

OCTOBER 2014

DATE

This is to certify that when subjected to a 250,000-impression Buyers Lab durability test, the Toshiba e-STUDIO6570C proved to be a highly reliable product.

BUYERS LABORATORY LLC

THE LEADING INDEPENDENT OFFICE PRODUCTS TEST LAB AND BUSINESS CONSUMER ADVOCATE

NORTH AMERICA ■ EUROPE ■ ASIA ■ WWW.BUYERSLAB.COM