



Toshiba e-STUDIO5005AC

50 PPM Colour/Black • Copy • Print • Scan • Fax

The Toshiba e-STUDIO5005AC was a strong overall performer that will be a great fit in medium- to large-size workgroups. The device demonstrated outstanding reliability, with just three misfeeds over its 210,000-impression durability test. And in the rare occurrence in which a misfeed occurs, clearing it will be a cinch. In addition, the device's simple procedures for replacing toner, drums and the waste toner promise to deliver maximum uptime to an organisation. Multiple-user environments can rest assured that the device will quickly handle jobs, thanks to fast job stream speeds when compared to its peers. Productivity and efficiency boosting measures include profiles in the drivers, and one-touch templates to quickly access frequently used settings for scan and copy jobs. Four total interfaces for scan and copy, two of which only the most commonly used settings are programmable from, allow users to program jobs more quickly. Users also get fast scan speeds with the 300-sheet duplex single-pass feeder. Printed colour output was also found to remain consistent over long runs. For added convenience, users can print on the go with support for mobile printing, and have access to cloud scanning and printing directly from the control panel. BLI highly recommends the Toshiba e-STUDIO5005AC for environments with monthly volumes up to 23,000 impressions.



Reliability  9.5

Ease of Use  7.5

Productivity  7

Image Quality  6.5

IT Administration  5.5

Security Features  9.5

User Maintenance  7

Features  5.0

EUROPEAN EDITION

AT A GLANCE

Test duration: Two months, including a 210,000-impression and 21,000-scan durability test.

Maximum monthly duty cycle: 210,000 impressions

The 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 it be run at this volume on a regular basis.

Average optimum monthly volume for devices in this speed range: 23,000 impressions.

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

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).

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STRENGTHS

- Reduce downtime thanks to excellent reliability and simple procedures for replacing toner, drums and waste toner
- Effectively handle multiple job types from multiple users with fast job stream speeds
- Maintain image quality of materials over long runs with consistent colour output
- Save up to 20 profiles in the driver for quick print job programming
- Increase office efficiency with Simple Scan and Simple Copy menus, and one-touch templates to quickly access frequently used settings for scan and copy jobs
- Standard tandem printing allows users to split large jobs between two Toshiba devices for faster completion
- Save time with support for scanning to Word, Excel and PowerPoint to create fully editable documents without the need to reproduce or search originals
- Conveniently print to one device and release to any other in the organisation with the multi-station print solution
- Boost scan productivity with fast scan speeds and 300-sheet duplex single-pass feeder
- Boost convenience with support for mobile printing and access to scanning to or printing from the cloud directly from the control panel
- Protect sensitive data with robust security measures
- Take advantage of e-BRIDGE Next Controller, which allows applications to be embedded onto the MFP



WEAKNESSES

- No support for direct printing
- Scan to email does not support the ability to store extensions or domains as one touch keys
- Below average maximum paper capacity
- Larger than average scan file size in colour even when compressed
- Flesh tones were slightly yellowish and slightly reddish in colour print and copy modes, respectively

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9.5

RELIABILITY

- Excellent durability performance

Test duration	210,000 impressions and 21,000 scans
Output/Scan misfeeds	3/0
Misfeed rate	3/70,000
Service calls	0

Consumables Rated Yields | Competitive Average

USER-REPLACEABLE		
Black toner	38,400	38,592
Colour toner	33,600	24,926
SERVICE-REPLACEABLE		
Black photoconductor	210,000	183,364
Colour photoconductor	105,000	144,409
Black developer	210,000	348,077
Colour developer	210,000	331,923

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

7.5

EASE OF USE

7

EASE OF USE—PRINT

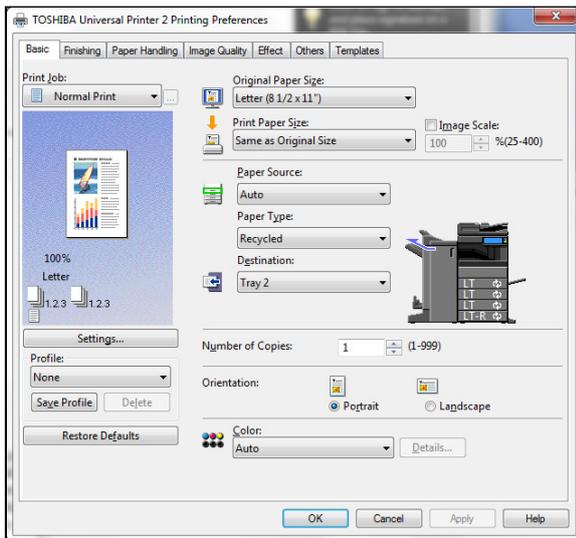
- Save up to 20 profiles for quick job programming
- Point-and-click support for selection of paper source and output tray
- Duplex and staple are not available for selection on the main driver screen in default settings
- A PIN is not required to delete secure print jobs
- No support for direct print

Driver Navigation

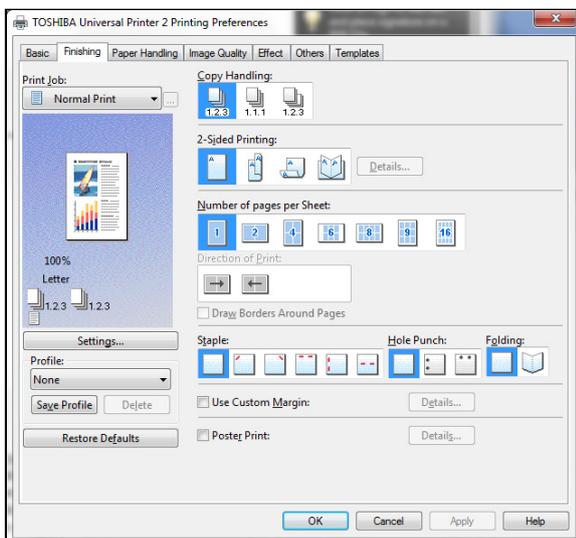
GENERAL	
Standard drivers	Universal XPS, Universal PostScript and Universal Printer 2
Similarity of appearance	Identical
Feature labelling	Icons with text
Clarity of labelling	Easily understandable
Commonly used features on main tab	Quantity/Paper size/Colour mode/Orientation
Point-and-click for input/output source	Yes
Job review	Yes (thumbnail preview and list view)
Job status	Yes
Error prevention/guidance	Driver auto-overrides incompatible settings

CUSTOMIZATION	
Number of features that can be added to main tab	None
Order of tabs can be rearranged	Yes
Customize an entire tab	Yes (all users)
CLICK TESTS	
Number to program typical print job (multiple sets, with duplex and stapling, from the second drawer)	4
Number to program booklet print job (multiple sets, from the second drawer)	10

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 in order to access functions such as duplexing and stapling. A job review for currently programmed settings is available in both graphical and text form.

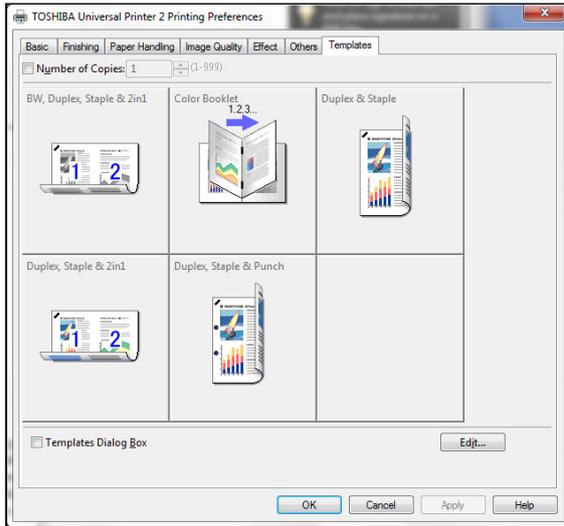


In addition to some commonly used functions, the Basic tab supports point-and-click for convenient selection of paper source and output tray. (U.S. model pictured)



Text and icons clearly indicate selections for duplex and finishing from the Finishing tab. (U.S. model pictured)

Users can select which tab they want to open first as their default setting. In addition, users have the ability to save and edit up to 20 profiles for commonly run job types, which is conveniently accessible on every tab of the driver. Additional customization is available via the Templates tab, which includes five presets (BW, Duplex, Staple and 2 in 1; Colour Booklet; Duplex and Staple; Duplex, Staple and 2 in 1 colour; Duplex, Staple and Punch), plus one open template.



The settings of each template on the Templates tab can be changed and renamed for quick programming of commonly run workflows. (U.S. model pictured)

If incompatible settings are selected, the driver will automatically select/deselect a setting based on the job. In addition, the setting changes are viewable in the print preview, helping to eliminate any miscues prior to submitting the job to print.

PCL Driver Features

Banner pages	No
Blank-page removal	Yes
Booklet print	Yes
Saddle-stitch finishing without imposition layer	Yes
Carbon-copy mode	Yes
Collate	Yes
Colour modes	Auto colour/Full colour/Two colour/Black
Cover mode	Yes (front/back)
Sources supported	5
Dedicated tab for "green" features	No
Available features	Not applicable
Delayed/Scheduled print	Yes
Display device configuration	Yes
Duplex print by default	Yes
Envelope mode	Yes
Sources supported	Trays 2, 3 and 4

Exception page-range printing	Yes
Mixplex	Yes
Sub-set finishing	NA
Graphical changes	Yes
Max paper sources per job	4
N-up printing	1 to 16
Overlay	Yes
Paper gauge	Yes
Accuracy confirmed	Yes (embedded web server and control panel)
Poster mode	Yes
Supports print all text as black	Yes
Print and hold	Yes
Print on to tab extensions	Yes
Priority levels supported	No
Proof/Sample print	Yes
Quantity	Up to 999
Reduction/Enlargement	25% to 400%
Resolution (dpi)	600
Save settings	Yes
Built-in preset settings (number)	Yes (5)
Secure print	Yes
Tab extension text programming	No
Preprinted tab insertion	Yes
Toner gauge	Yes*
Accuracy confirmed	Yes (embedded web server and control panel)
Toner-save mode	Yes
Watermarks/Custom watermarks	Yes/Yes

*The drivers provide a direct link to the embedded web server, which provides detailed and accurate toner and paper gauges.

In addition to standard Tandem printing, users can choose from a variety of time-saving, function-adding plug-ins for the driver. Among these are Job Replicator, for multi-part form replacement; Job Separator, to perform batch printing using any Windows app; and Job Build, in order to print different document types all together as a single job.

Secure Print

RELEASE	
Process	Intuitive
Where jobs are accessed	Main page on the control panel
During print/scan/copy job	Yes
Number of keystrokes to release one job	2 plus password
Output multiple jobs/sets at once with same PIN	Yes/Yes

FEATURES	
Change quantity	No
Change simplex/duplex	No
Select paper size and source	No
Apply corner stapling	No
POTENTIAL ISSUES	
Username visible in secure queue before user identification	No
Filename visible in secure queue before user identification	No
Filename visible in main queue upon release	No
Secure print jobs can only be deleted with a PIN	Yes

The process for secure print jobs is intuitive, and jobs are accessed from main page on the control panel. Users can also output multiple jobs at once with the same PIN. When user authentication is enabled, secure print file names can be configured to invisible status and a PIN is required to delete secure print jobs.

Print from USB

Menu auto-populated on display	No
Browse into subfolders	Yes
Formats supported	PDF, JPEG
Preview files	No
Output multiple jobs/sets at once	Yes
Change quantity	Yes
Change simplex/duplex	Yes
Change colour/mono	Yes
Select paper size and source	Yes*
Blank-page removal	No
Apply corner stapling	Yes
Booklet layout printing	No
Printing PIN-protected PDFs	Yes**
Number of clicks to release a PIN-protected PDF	NA
Release multiple PIN-protected PDFs with a single PIN	No

*Size only

** Printing of 128-bit AES protected PDFs is not supported.

The USB print menu is not auto-populated, and preview is unavailable. In addition, printing of 128-bit AES protected PDFs is not supported. While users can scan to USB using 128-bit AES encryption, these files cannot be printed from USB. Print from USB does support printing of 40-bit RC4 and 128-bit RC4 protected PDFs. Users can browse into subfolders, output multiple jobs and sets at once, change quantity, change simplex/duplex, change colour/mono, select paper size and apply stapling.

Direct Printing

Source	NA
Formats supported	NA
Output multiple jobs/sets at once	NA
Change quantity	NA
Change simplex/duplex	NA
Change colour/mono	NA
Select paper size and source	NA
Blank-page removal	NA
Apply corner stapling	NA
Create profiles	NA

6.5

EASE OF USE—SCAN

- Easily switch between the Scan and Simple Scan screens based on preference and need
- Support for scanning to Word, Excel and PowerPoint
- Scan preview can be enlarged using pinch technique with fingers
- Easy data entry with comfortably spaced QWERTY keypad
- Scan to email does not support ability to store extensions or domains as one touch keys
- No support for storing manually entered addresses to the address book from the scan menu
- Just two scan destinations are supported in one session
- Less intuitive procedures for network folder browsing from the control panel or the web

Display for Scanning

KEYS	
Layout	QWERTY/QWERIZ/AZERTY
Comfortably spaced	Yes
Ease of entering data	Easy
Stylus can be utilised	Yes*
FEATURES	
CC/BCC	Yes
Dedicated "@" and "." keys on main screen	Yes
Ability to store extensions (.com, .net)	No
Typical domains (@gmail.com,) as a one-touch key	No
Programmable default domain	No
Number of programmable domains	NA
Number of short messages that can be stored	**
Stylus provided	No
Keyboard	No

*Stylus is optional

**Users are able to store messages using the default body string section on the web page when logged in as administrator, and give users access to be able to add these messages at the control panel.

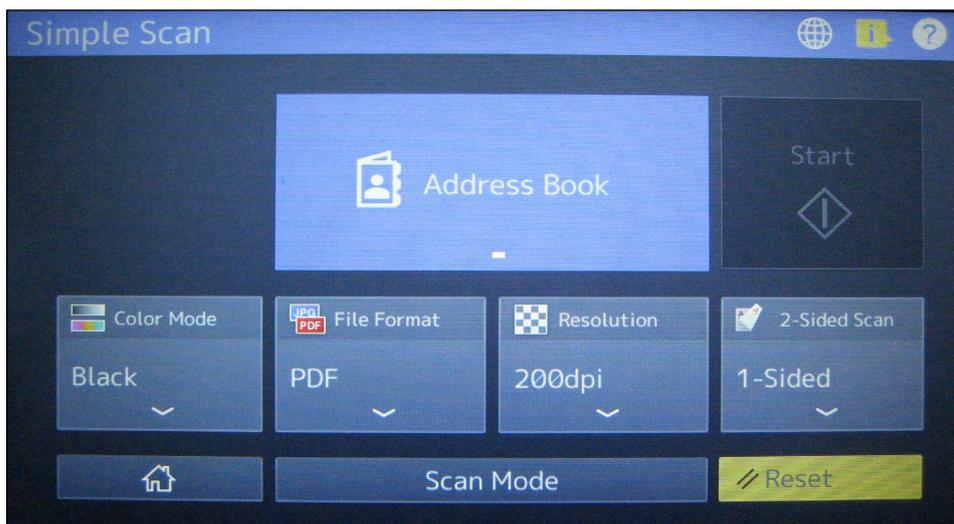
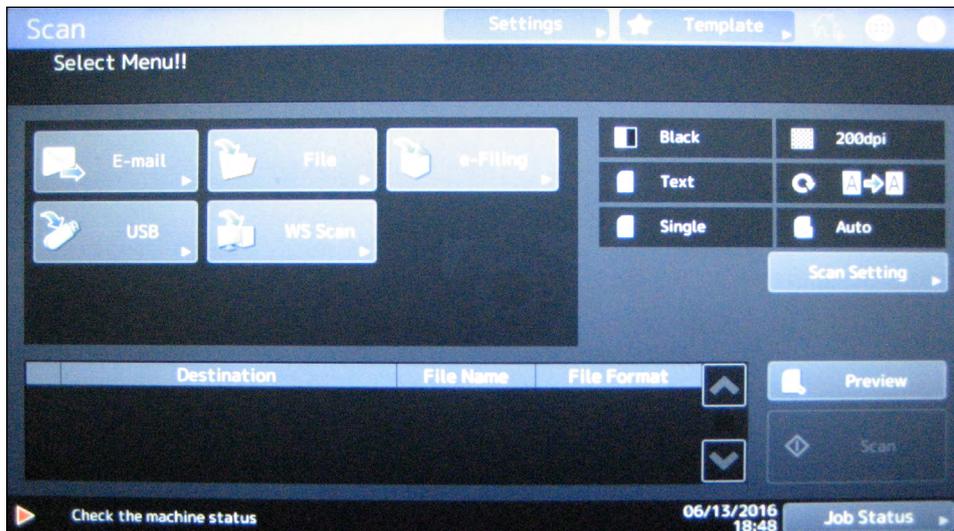
Scan Features

GENERAL	
Commonly used features on main screen	Colour mode/Resolution/Format/Duplex
Default colour mode	Black
Other modes	Auto colour/Full colour/Black/Greyscale
Resolutions (dpi)	100, 150, 200, 300, 400, 600 dpi
Formats supported	PDF, PDF/A, Compact PDF, Encrypted PDF, Searchable PDF, JPEG, TIFF, PPT, DOC, XLS, XPS, Slim PDF
Default colour compression mode	Mid
Other modes	Low and High
Auto-split by file size	No
Destination types	email, file, e-Filing, USB, web services
Number of types supported in one session	2
Create subfolders for storing files on the hard drive	No
Network folder browsing	No
Thumbnail view of selected features	Yes
Background suppression	Yes
Colour-dropout mode	No
Blank-page removal	Yes
Duplex	Yes
Long document support (minimum of 711 mm)	No
Embed URL in email	Yes
Scan while out of paper	Yes
PREVIEW	
Automatic	No
Ability to view more than just one page	Yes
Navigation of pages	Swipe
Enlarge view	Yes
Onscreen editing (masking)	No
Move pages	No
Page rotation	Yes
Page deletion	Yes
Page replacement	Yes

The unit’s on-screen QWERTY keyboard features large, comfortably spaced keys, which makes it easy to enter scan destinations manually. Dedicated “@” and “.” keys are also on the main scan screen. However, there is no ability to store extensions and no domains as one touch keys. A maximum of just two destinations are supported in one session.

Network folder browsing from the control panel or the web is less intuitive than some competitors. Many competitors do not require the entry of IP address or server name in order to browse network folders.

In addition to the typical Scan menu, a Simple Scan menu is available and can be easily switched to. In addition to one email address, the Simple Scan menu includes selections for colour, format, resolution and duplex. The address book to select email destinations is also easily accessible.



Users can easily switch between the Scan and Simple Scan screens for more streamlined programming. (U.S. model pictured)

Manually entered addresses can be stored to the local address book but not through the scan screen. Instead, users must go to the address book under User Functions. The ability to store addresses to the address book should also be supported from the scan menu.

Via the scan preview, users can delete, replace or insert pages, and zoom in and out with pinch and enlarge. Scan settings that can be changed while in preview mode include resolution, mode (Text, Text/ Photo), page rotation and original Size. However, masking, duplex and colour are not supported.

Optional embedded OCR will scan to Word, Excel and PowerPoint. This is a big time saver, eliminating the need to reproduce or search for the original electronic document to reuse. Further, users can edit and add information to a digital version of a hard copy document. While the embedded OCR will feature very good accuracy for simple files, Toshiba's Re-Rite OCR application is a more robust server-based option for more complex files.

Scan to USB

Intuitive port location	No (left side of unit)
Menu auto-populated	No
Similarities between scan to email and scan to USB features	Yes
Commonly used features on main screen	Colour mode/Resolution/Duplex/Preview
Default colour mode	Black
Other modes	Auto colour/Full colour/Black/Greyscale
Resolutions (dpi)	100, 150, 200, 300, 400, 600 dpi
Formats supported	PDF, PDF/A, Compact PDF, Encrypted PDF, Searchable PDF, JPEG, TIFF, PPT, DOC, XLS, XPS, Slim PDF
Default colour compression mode	Mid
Other modes	High and Low
Auto-split by file size	No
Thumbnail view of selected features	Yes
Background suppression	Yes
Colour-dropout mode	No
Blank-page removal	Yes
Duplex	Yes
Long document support (minimum of 711 mm)	No
Preview	Yes
Ability to name files	Yes
Store into subfolders	No
Create folders from device	No

The USB port is located on the left side of the control panel and can be overlooked. In addition, while a found USB device message appears on the bottom of the LCD when a USB is inserted, pressing on this message does not open up the USB drive. The user must either go into the print or scan menus. Users can only store folders to the main root of the USB and cannot create subfolders. 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.

LDAP/Local Address Book

Intuitive LDAP search	Yes
Number of LDAP servers	5
Multiple destinations can be selected during a single search	Yes

LDAP addresses can be stored to the local address book after retrieval	No
Manually entered addresses can be stored to the local address book	Yes
Users, not just administrators, can program destinations	Yes
Store multi-destination types into a one-touch address book entry	Yes
Favourites list available	Yes

The procedure for locating email addresses via LDAP is very simple.

Job Build for Scanning

Mix pages from platen and DF	No
Mixed-size original feeding	Yes
Mixplex changes between batches	No
Image quality changes between batches	Yes

When scanning using the document feeder, the user must select continue on the control panel after the start button is pressed in order to job build. In addition, if the document feeder is used to start job, the user cannot switch to the platen glass during this build. When scanning using the platen glass the continue button does not have to be pressed (automatically defaults), but the document feeder cannot be used for any additional pages in the build.

EASE OF USE—COPY

- Easily switch between the Copy and Simple Copy screens based on preference and need
- Select paper source and exit tray directly from device graphic on main copy screen
- Store one-touch templates to quickly access frequently used settings
- Direct access to e-BRIDGE Plus for Dropbox, Google Drive and OneDrive from the Home screen
- The control panel can be tilted up and down freely
- The Help function is not dynamic

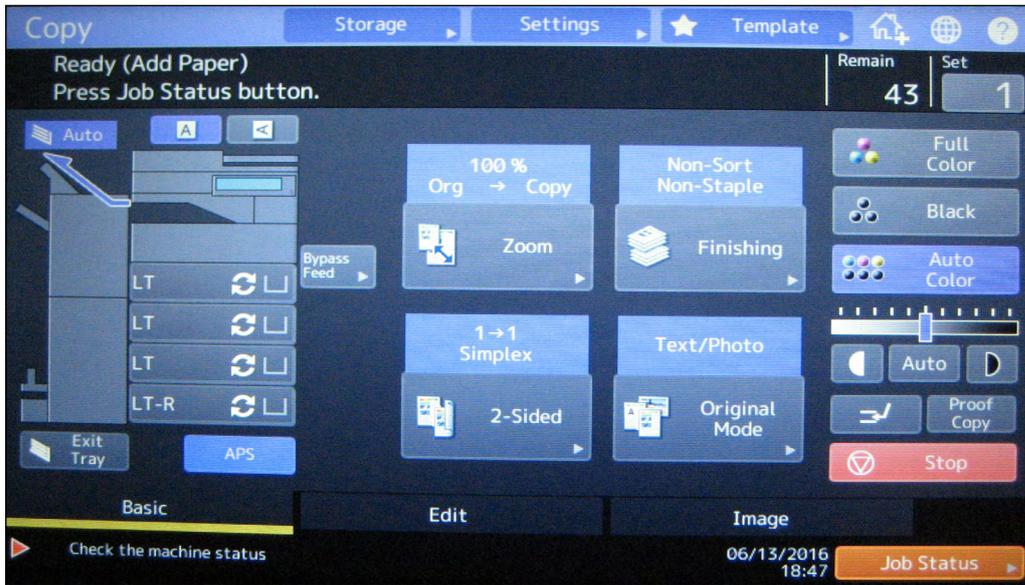
Control Panel

FEATURES	
Proof/Sample copy	Yes
Job review	Yes
HELP	
Level of guidance	Average
Index of terms	Yes
Context-sensitive	Yes
Step-by-step instructions	Yes
Provided as	Text

Display for Copying

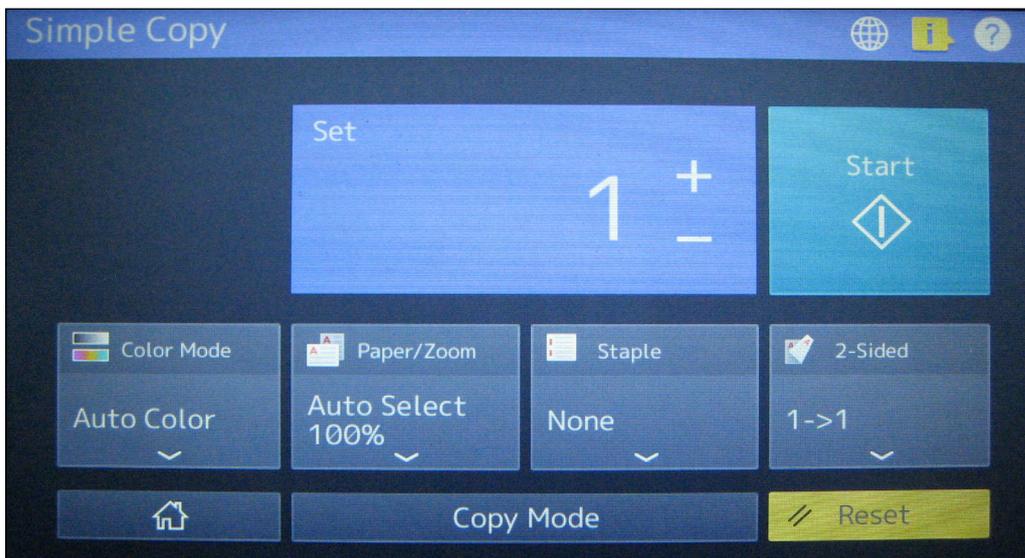
TOUCHSCREEN/LCD	
Dimension (diagonal)	229 mm
Colour	Yes
Default brightness	Bright
Method of adjusting brightness	In submenu
NAVIGATION	
Typical interface for manufacturer	Yes
Default screen	Home screen
Commonly used features programmable from main screen	Duplex/Paper source/Colour mode/Reduction/Enlargement/Finishing
Enlarged text mode	No
Alternate screens available	Yes
Easy access when switching from main copy screen to an alternative screen	Yes
Ease of programming jobs from the main screen	Intuitive
Ease of programming jobs from an alternate screen	Intuitive
Keys/Buttons labelled with text and icons	Yes
Clarity of labelling	Easily understandable
Slide/Swipe navigation	Yes
Paper/Toner status	Home screen/Basic copy sub-menu
CUSTOMIZATION	
Only administrators can customize	No
Customized on a user-by-user basis	Yes
Any screen can be customized	No
Order of features can be rearranged	Yes
Submenu features can be moved to main screen	No
Number of one-touch programs	12,060
Ease of creating saved programs	Intuitive
CLICK TESTS	
Number to program typical job from main copy screen (multiple sets, with duplex, reduction and stapling)	11
Number to program the same job from alternative screen	9
Number to program booklet job from main screen (multiple sets, from the second drawer)	7

The 229-mm tablet-style touch screen tilts up and down freely and is bright at default settings. The control panel is logically organised, and most commonly used features are accessible, but not programmable, from the main copy screen (Basic tab). When a commonly used function is selected, a sub-menu opens within the main screen to program selections, and is easily closed to take users back to the Basic tab.



Paper source and exit tray can be conveniently selected directly from the graphic of the device on the main Copy tab. (U.S. model pictured)

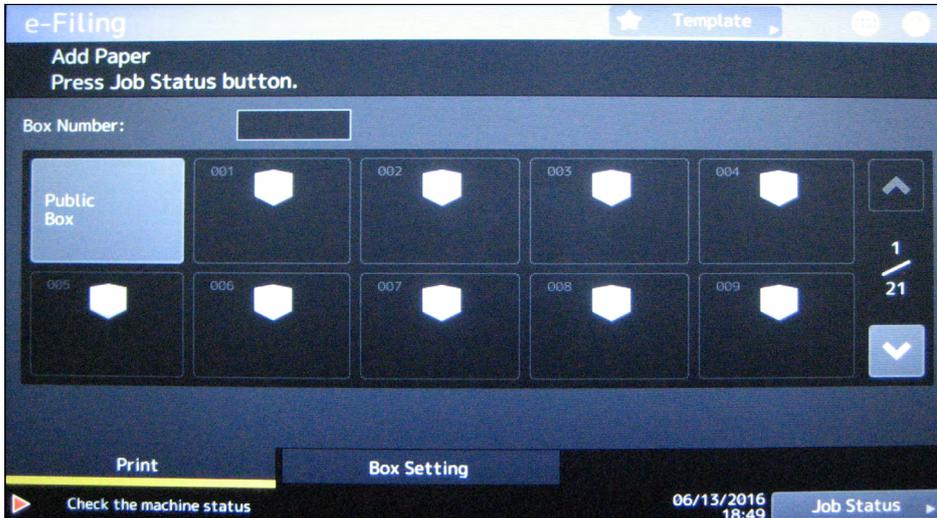
Proof Copy is programmable from the Basic tab. An alternate copy screen, Simple Copy, can be easily switched to based on user preference. The settings touch key serves as a convenient location for users to view all selected settings for the current job being programmed. Shortcuts to each of the menus in which a setting is currently selected are also provided, so that users can conveniently change the current settings, if desired.



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

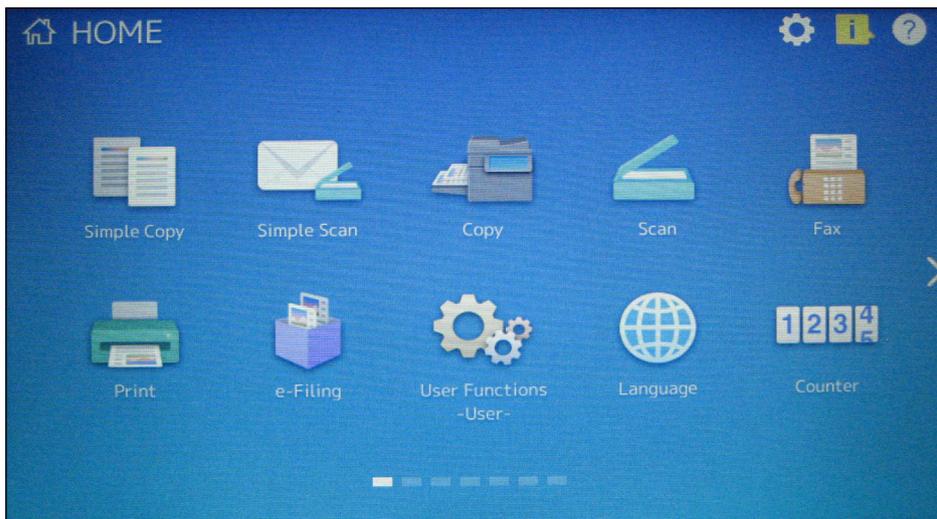
Touch keys for storage and template are located at the top of every control panel screen for easy access. With storage, scanned data can be stored in the e-Filing box of the machine at the same time originals are scanned or copied. Users can also opt to store scanned data in the shared folder of the machine or a computer on the network. 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.



Up to 12,060 templates can be stored to enable one-touch access to frequently used settings for not only copy but also scan and fax jobs. (U.S. model pictured)

Administrators can also customize the Home screen, adding features such as ID card copy, duplex copy, scan to file and templates for quick access. The function buttons can also be rearranged via drag and drop and renamed, and made larger or smaller. Applications that can be loaded onto the Home screen include Scan to Dropbox, One Drive, Google Drive and Google Cloud Print. The background can be changed as well.



The Home screen is customizable for quick access to commonly used functions. (U.S. model pictured)

Job Build for Copying

Mix pages from platen and DF	Yes
Mixed-size original feeding	Yes
Mixplex changes between batches	Yes
Image quality changes between batches	Yes
Subset stapling	No

7.5

EASE OF USE—JOB MANAGEMENT

- Jobs can be prioritised one slot at a time
- Scan jobs appear in separate queue from print and copy jobs
- Only quantity can be modified for jobs in queue

Job List

GENERAL	
Key type	Soft
List type for jobs	Combined (print and copy)
DETAILS	
Username/ID	Yes
Number of originals	Yes
Number of output pages in a job	No
Number of sets in a job	Yes
Time remaining until job completion	Yes
Jobs that are completed	Yes
Jobs that are incomplete	No
Date	Yes
Time submitted/completed	Yes
Filename	No

Queue

FEATURES	
Number of jobs that can be displayed	To memory capacity
Move print/copy jobs	Yes
Name of key	Move
Increments	One slot at a time
Scan jobs appear in same queue with print/copy	No
Modify jobs (beyond quantity)	No

JOB DELETION	
User prompted/warned	Yes
More than one job at once	Yes
Only authorised users can delete	No

Both the job queue and copy screen count down the number of sets left to complete, which is very useful for a user tracking when their job will be finished. A soft key provides access to the job list, but the “!” icon may not be recognizable to the average user.

Limitless job reservation will queue up as many as 1,000 multiple copy or print jobs so users can send jobs whenever.

9

EASE OF USE—MULTITASKING

- Files can be sent to multiple destination types
- A scan job experiences no slowdown when a print job is being output
- Print Around allows jobs for which resources are available to be run

Capabilities

Print jobs accepted by the device	Based on resources
Secure print job can be released while a print job is output	Yes
Able to send files to multiple destination types	Yes
Access to display blocked for scan/copy jobs while scanning originals	Yes
Slowdown in scanning during a print job	No
Scan during a misfeed	Yes
Copy reserves	Based on resources
Settings auto-clear when programming ahead the next scan or copy job	Yes
Default priority mode	First-in, first-out
Other priority modes	NA
Prioritisation of print jobs prior to submission	No

Print Around eliminates printing bottlenecks by allowing other print jobs to go around one job that’s held up due to requiring a specific paper size or type or, in some cases even coloured toner.

A priority mode for one of the unit’s functions cannot be set, as jobs are output on a first-in, first-out basis, with no type taking precedence over another.

Interrupt Mode

Identical for a print or copy job	Yes
Device continues to run interrupted job while the next job is programmed	No
Auto-resumes interrupted job after how long	Less than 60 seconds

EASE OF USE—FEEDBACK

- Highly detailed consumables status from embedded web server
- Highly customizable email alerts from embedded web server
- Status messages at the bottom of the control panel take the hassle out of checking for depleted supplies or maintenance needs

UTILITY	
Name and version number	DocMon
Range of conditions covered in pop-up messages	Above average
Pop-ups appear in one window	Yes
Distinct colour changes to icon	No
Link to embedded web server	Yes
CONSUMABLES STATUS	
In feedback utility/embedded web server/fleet management utility	In feedback utility/embedded web server
Driver	Link to embedded web server
STATUS IN EMBEDDED WEB SERVER	
Paper size	Text
Paper	25% increments
Indicator	Gauge
Toner	1% increments
Indicator	Gauge/Text
Drum	NA
Waste toner container	NA
Staple cartridge	NA
Fuser	NA
ALERTS	
email	Configured through embedded web server and fleet management utility
Conditions covered	Paper misfeed, drawer out of paper, drawer open, print needs attention, toner empty, power status, change settings, maintenance user data, export/import, cloning, system updates, log full, errors
Maximum number of recipients	3
Different alerts for different users/groups	Yes/No

Paper volume indicators on the main copy screen make it easy to see paper sizes, types and levels in each cassette and update automatically as paper size is changed and paper is depleted. Toner gauges in 1% increments are supported, but users must select the Job status key. If the toner is almost empty the user will be prompted with an error icon on the graphical machine display showing which toner bottle needs attention. The drivers provide a link to the embedded web server, which indicates the percentage of toner and paper remaining in 1 percent and 25 percent increments, respectively. Highly customizable email alerts are also supported from the web and fleet management utilities. Status messages on the bottom of the control panel, which can be turned on by the administrator, take the hassle out of checking for depleted supplies or maintenance needs.

7

PRODUCTIVITY

6.5

PRINT PRODUCTIVITY

- Fast job stream speeds
- Fast speeds when printing sets in black

The device proved it can stand up to the rigors of a multi-user office with an above average job stream performance, along with fast speeds when printing single and multiple sets in black. Productivity when printing single and multiple sets in colour was by and large competitive.

SHORT-RUN JOBS

Recovery Times | Competitive Average

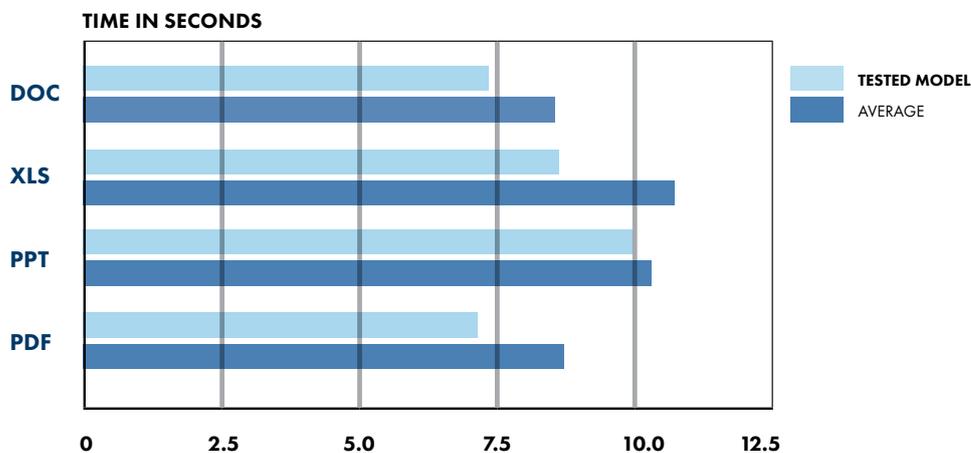
Energy Save	21.05	17.29
Daytime Sleep	24.47	26.82

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

First-Print Times by File Type | Competitive Average

FORMAT	TYPE	TIME IN SECONDS	
Word DOC	Black text	7.37	8.56
Excel XLS	Colour graphic/text	8.63	10.74
PowerPoint PPT	Colour graphic/text	9.97	10.31
Acrobat PDF	Black graphic/text	7.16	8.73

First-print time indicates the time it took to RIP the image and deliver the first page of the test document set to the output tray. The unit was tested using the PCL driver.



Single-Set Print Productivity (10-Page File) | Competitive Average

		SPEED IN PPM		PERCENT OF RATED SPEED	
AUTO Colour					
1:1	26.3	24.9	52.5	51.6	
1:2	22.7	20.8	45.3	43.1	
BLACK					
1:1	34.8	29.5	69.6	59.6	
1:2	28.0	24.1	56.1	48.6	

Productivity is tested using a 10-page mixed-colour-and-black document and a 10-page black document. Efficiency (percent of rated speed) for each mode is derived by dividing the tested speed of the device by the rated speed and then multiplying by 100. The unit was tested using the PCL driver.

Single-Set Print Productivity (3-Page File) | Competitive Average

		SPEED IN PPM		PERCENT OF RATED SPEED	
Auto Colour 1:2	10.1	10.0	20.1	20.8	

Productivity is tested using a 3-page mixed-colour-and-black document. Efficiency (percent of rated speed) is derived by dividing the tested speed of the device by the rated speed and then multiplying by 100. The unit was tested using the PCL driver.

Job Stream | Competitive Average

		SPEED IN PPM		PERCENT OF RATED SPEED	
PCL					
Auto Colour	33.7	31.6	67.5	65.7	
Black	41.1	37.8	82.2	76.1	
POSTSCRIPT					
Auto Colour	33.3	27.5	66.6	57.5	
Black	34.9	31.0	69.8	62.7	

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. 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.

LONG-RUN JOBS

Average Multi-Set Print Productivity | Competitive Average

	SPEED IN PPM		PERCENT OF RATED SPEED	
AUTO Colour				
1:1	37.3	35.4	74.5	73.4
1:2	35.1	32.7	70.1	67.8
BLACK				
1:1	41.7	39.1	83.5	78.9
1:2	38.3	35.3	76.6	71.2

Productivity is tested using a 10-page mixed-colour-and-black document and a 10-page black document. BLI obtains the overall 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) for each run length (10 sets). The unit was tested using the PCL driver.

Average Booklet Print Productivity | Competitive Average

	SPEED IN PPM		PERCENT OF RATED SPEED	
Auto Colour	23.0	35.5	46.0	73.6
Black	22.7	36.3	45.4	72.8

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. The unit was tested using the PCL driver.

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

7

SCAN PRODUCTIVITY

- Among the fastest scan speeds in all modes tested
- Smaller than average compressed colour file size
- Compression not available in black, but file size is still much smaller than the average of other non-compressed files

Scan Speed in IPM | Competitive Average

FULL Colour		
1:1	83.2	64.2
2:2	139.7	99.5
BLACK		
1:1	87.3	68.2
2:2	147.6	107.1

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

Scan File Size in KB | Competitive Average

FULL Colour		
Default compression	1443.84	995.34
Best compression	170	256.34
BLACK		
Default compression	42.8	210.4
Best compression	Not applicable	36.26

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

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

6.5

COPY PRODUCTIVITY

- Fast speeds when copying sets in colour duplex modes, and single sets in black duplex mode

While the Toshiba e-STUDIO5005AC'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, and single sets of double-sided documents in black mode.

SHORT-RUN JOBS

First-Copy Times in Seconds | Competitive Average

AUTO Colour		
Platen	8.14	8.64
Document Feeder	8.77	9.57
BLACK		
Platen	4.64	5.61
Document Feeder	5.12	6.70

Single-Set Copy Productivity | Competitive Average

	SPEED IN PPM		PERCENT OF RATED SPEED	
AUTO Colour				
1:1	24.4	24.3	48.8	50.4
1:2	21.7	18.3	43.4	38.0
2:2	30.1	25.7	60.3	53.3
BLACK				
1:1	35.4	33.0	70.7	66.4
1:2	26.4	23.6	52.8	47.6
2:2	33.2	30.1	66.4	60.8

Productivity is tested using a 10-page mixed-colour-and-black document and a 10-page black document. Efficiency (percent of rated speed) for each mode is derived by dividing the tested speed of the device by the rated speed and then multiplying by 100.

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

LONG-RUN JOBS

Average Multi-Set Copy Productivity | Competitive Average

	SPEED IN PPM		PERCENT OF RATED SPEED	
AUTO Colour				
1:1	35.9	34.0	71.9	70.6
1:2	34.1	30.1	68.1	62.4
2:2	39.8	34.8	79.5	72.3
BLACK				
1:1	41.0	40.8	82.1	82.1
1:2	37.0	35.4	73.9	71.3
2:2	41.6	39.4	83.2	79.4

Productivity is tested using a 10-page mixed-colour-and-black document and a 10-page black document. BLI obtains the overall 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) for each run length (1, 5 and 10 sets).

Average Booklet Copy Productivity | Competitive Average

	SPEED IN PPM		PERCENT OF RATED SPEED	
Auto Colour	22.7	34.9	45.5	72.5
Black	22.8	36.4	45.7	72.9

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.

IMAGE QUALITY

PRINT QUALITY

- Well produced reproduction of light backgrounds
- Excellent halftone range in colour and black
- Crisp, dark text and consistent lines
- Consistent colour output throughout testing
- Saturation not bright enough
- Slightly yellowish flesh tones

The printed output of the Toshiba e-STUDIO5005AC should meet the needs of most business colour environments. Samples drawn at scheduled points during the evaluation were consistent overall from start to finish. Moreover, reproduction of light backgrounds were well produced, and halftones were visible over the entire measured range.

6.5

6.5

Photographic images also promise to deliver a smooth finish. Flesh tones, however, were slightly yellowish, and saturation was not bright enough. Users can enhance quality—colour balance, halftones, contrast, brightness, saturation and sharpness—via the drivers.

Organisations that purchase the device will be happy with how it produces output in black mode. In text documents characters are clearly readable and dark, while lines are consistent with distinct separation. The unit’s shading capability is excellent, as greyscale is visible over the entire measured range. The device will more than meet your needs for general office use.

Colour Print Quality

BUSINESS GRAPHICS	GOOD
Coverage of solids	Consistent
Saturation	Not bright enough
Fine detail	Average
Reproduction of light backgrounds	Well produced
PHOTOGRAPHIC IMAGES	VERY GOOD
Flesh tones	Slightly yellowish
Smoothness	Above average
Fine detail	Average
Halftone range	10% to 100%

Black Print Quality

TEXT	VERY GOOD
Characters	Fully formed
Darkness	Above average
Sharpness	Above average
Curves/Serifs	Average
LINE ART	VERY GOOD
Closely spaced fine lines	Distinct separation
Line thickness	Consistent
Circles	Fully formed
Stair-stepping of diagonal lines	None
HALFTONE RANGE	EXCELLENT
Range (10% to 100%, in 10 increments)	10% to 100%
Separation between levels	All
HALFTONE FILL	VERY GOOD
Smoothness	Above average
Banding	Slight
SOLIDS	GOOD
Darkness	Average
Coverage	Slight mottling

Print Density | Competitive Average

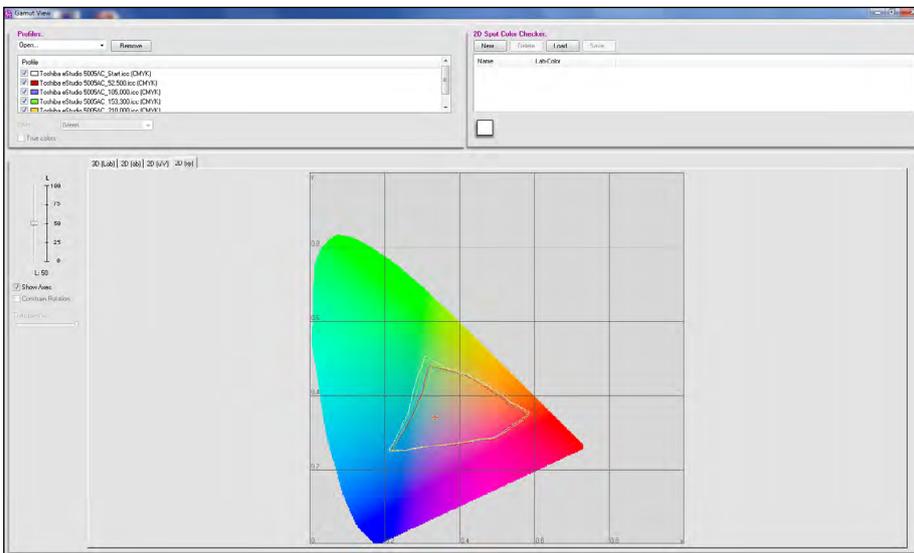
Cyan	0.83	1.09
Magenta	1.23	1.18
Yellow	1.02	0.90
Black	1.30	1.48

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	RATING
52,500	2.97	Very Good
105,000	2.74	Very Good
153,300	2.16	Very Good
210,000	4.40	Good
AVERAGE	3.06	Very Good

Delta E is a colourimetric 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.



6.5

COPY QUALITY

- Bright saturation in business graphics
- Sharp business graphics
- Dark, clearly readable characters, distinct fine lines and broad greyscale range
- Slightly reddish flesh tones
- Average amount of stair-stepping evident in diagonal lines

The device gave a strong performance in colour copy mode, delivering very good colour business graphics and colour photographic output. Saturation was bright and business graphics were sharp, and KATUN solid colours were consistent. Flesh tones were slightly reddish in photographic images.

While output in black copy mode was not at the level as it was in print mode, the device should suffice for the copying needs of most general office environments. Text was dark and clearly readable, and greyscale was visible over the entire measured range. Fine lines were also distinct, although some stair-stepping was evident.

Colour Copy Quality

BUSINESS GRAPHICS	VERY GOOD
Coverage of solids	Consistent
Saturation	Bright
Fine detail	Sharp
Reproduction of light backgrounds	Average
PHOTOGRAPHIC IMAGES	VERY GOOD
Flesh tones	Slightly reddish
Smoothness	Minimal graininess
Fine detail	Average
Halftone range	10% to 90%

Black Copy Quality

TEXT	VERY GOOD
Characters	Fully formed
Darkness	Above average
Sharpness	Average
Curves/Serifs	Average
LINE ART	GOOD
Closely spaced fine lines	Distinct separation
Line thickness	Slightly inconsistent
Stair-stepping of diagonal lines	Moderate
HALFTONE RANGE	VERY GOOD
Range (15% to 100%, in eight increments)	15% to 100%
Separation between levels	All

HALFTONE FILL		VERY GOOD
Smoothness		Minimal graininess
Banding		None
SOLIDS		GOOD
Darkness		Average
Coverage		Slight mottling

Copy Density

Colour	ORIGINAL	TESTED COPY	AVERAGE
Cyan	1.33	1.32	1.28
Magenta	1.29	1.24	1.23
Yellow	0.99	1.07	1.84
Black	1.91	1.27	1.51

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.

5.5

IT ADMINISTRATION

3.5

IT ADMINISTRATION—SETUP

- Multiple drivers can be installed simultaneously
- No user intervention required for auto-configuration of accessories
- No support for cloning during setup; no test page printed at end of install

Installation

DRIVERS	
Method	Download
Multiple drivers can be installed simultaneously	Yes
Installed with feedback utility	No
File size of driver download	927 MB
Can be pushed out to multiple PCs	No
Auto-configuration of accessories	No user intervention required
DISCS INCLUDED	
Number	1
Contains	Drivers, manuals
Auto-launches	Yes

OTHER FEATURES	
Auto-creation of port	Yes
Install utility has built-in test page printing	No
One-to-one/One-to-many cloning	No*
Remote server connection test button	Yes
Network browsing for scan-to-folder setup	No
LDAP support for programming destinations remotely to the local address book	Yes**
Multiple utilities can be installed simultaneously	Yes
From how many discs	1
Allows for remote access while in sleep mode	Yes

* While the device does not support cloning during setup, an administrator can install a clone file via the web page after initial setup.

**Users can add the addresses from the web page but not when searching from the control panel.

6.5

IT ADMINISTRATION—UTILITIES

- Easy navigation of the embedded web server and fleet management utility
- LDAP search support from web utility 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
- Fleet management utility requires software to be loaded on any PC where it is used, as opposed to being browser-based

Embedded Web Server

FEATURES	
Logically organised/easy to use	Yes
Supports searching LDAP	Yes
Ability to add addresses	Yes
Favourites/Frequently used settings	Yes
Device can be restarted remotely	Yes
Can access and save settings when device is in use	Yes
Can access in sleep mode	Yes
JOB LISTS	
Print	Yes
Scan	Yes
Copy	Yes
Current jobs	Yes
History available	Yes
History can be exported	Yes
Details provided in queue	Document name/type/paper/sets/pages/date time/status/user name/domain name/LDAP server

TopAccess, the embedded web utility, is very easy to use and navigate. LDAP search is supported from the web utility, so administrators can remotely add or edit destinations from the LDAP servers, which is a valuable time saver. Users can clone device settings from one device to another via the web utility, and 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. TopAccess also offers status information on currently running and pending jobs, and history can be exported as a CSV or XML file.

The screenshot displays the TopAccess web utility interface for a Toshiba e-STUDIO5005AC. The interface includes a navigation bar with tabs for Device, Job Status, Logs, Registration, and Counter. The main content area is titled 'Device' and features a 'Device Information' table, an 'Alerts' section with a yellow warning box, 'Options' for various device features, 'Toner' levels for Yellow, Magenta, Cyan, and Black, and a 'Paper' table showing drawer status.

Status	Alerts
Name	MFP11664885
Location	
Copier Model	TOSHIBA e-STUDIO5005AC
Serial Number	CFDF30842
MAC Address	00:80:91:b1:fd:f5
Main Memory Size	4096 MB
Page Memory Size	846 MB
Save as File & e-Filing Space Available	120827 MB
Fax Space Available	958 MB
Contact Information	
Phone Number	
Message	

Alerts

- Paper Empty in Drawer 1 - Please Add Paper.
- Paper Empty in Drawer 2 - Please Add Paper.
- Paper Empty in Drawer 3 - Please Add Paper.

[More Information](#)

Finisher	Saddle Stitch Finisher
Hole Punch Unit	None
Fax	None

Yellow(Y)	<div style="width: 61%;"></div>	61%
Magenta(M)	<div style="width: 67%;"></div>	67%
Cyan(C)	<div style="width: 60%;"></div>	60%
Black(K)	<div style="width: 77%;"></div>	77%

Drawer	Size	Thickness	Attribute	Capacity	Level
Drawer 1	LT	Recycled Paper	None	550	<div style="width: 0%;"></div>
Drawer 2	LT	Recycled Paper	None	550	<div style="width: 0%;"></div>
Drawer 3	LT	Recycled Paper	None	550	<div style="width: 0%;"></div>
Drawer 4	LTR	Recycled Paper	None	550	<div style="width: 0%;"></div>

The web utility includes detailed status on consumables and media supplies. (U.S. model pictured)

Administrators can also add applications to the device by using the Applications tab in the web server. Applications loaded include Scan to Dropbox, One Drive, Google Drive and Google Cloud Print. Once loaded the user can add these applications to the control panel (user credentials needed to use the applications).

Fleet Management Utility

Name/Version number	Toshiba e-BRIDGE Fleet Management System 6.20
Types of devices supported	SNMP-compliant networked output devices with standard printer MIB
Discovery via SNMP/IP broadcast/Active Directory	Yes/Yes/No
Discovers third-party devices	Yes
Discovers non-networked devices	No
Flags devices with errors	Yes
Alerts administrators about errors via email	Yes
Different email alerts can be sent to different people	Yes
Administrators can remotely see/manipulate control panel	Yes
Supports remote access to device's service mode	No
Provides map view of devices/access to embedded web server	No/Yes
Supports remote firmware upgrades/driver installation/remote embedded application installation for OEM's devices	Yes/ No/No
Restrict user access to colour output	Yes
Restrict user access to scanning	Yes
Service logs/device error history	No/Yes
Number of included report templates	No limitation
Plug-ins available	Yes

Toshiba's e-BRIDGE Fleet Management System (eFMS) is a very capable network device management utility for companies that need to monitor, manage and gather meter information for their Toshiba-branded MFPs and printers. It is easy to set up and use, and one of its key strengths is its advanced reporting capabilities, which can track usage by device or by department for accurate cost analysis. The utility also features two levels of email alerts to help IT personnel keep devices running. Alerts about mundane conditions, such as paper out and drawer open, can be sent to designated key operators, while conditions that require skilled intervention can be sent to IT personnel or an outside Toshiba dealer. Another plus is the utility's advanced cloning capabilities.

eFMS, however, is a traditional client/server application that requires software to be loaded on any PC where it's to be used, whereas some competitors offer web-based applications where the server-resident back-end can be accessed from any PC with a compatible web browser. Moreover, some competing fleet management utilities do a better job of reporting information for third-party devices.

9.5

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

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 Reader, 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

NA: Not applicable

The four different methods of overwrite supported include Simple (one time); Low (3 times); Medium (9 times); and High (15 times). The card reader, if added, is available behind the machine covering, making for a cleaner finish.

7

USER MAINTENANCE

- Dynamic, step-by-step instructions on control panel display for clearing misfeeds
- Simple procedures for replacing toner, drums and waste toner

Adjusting Paper Drawers

Process for user-adjustable drawers	Simple
Length guide	Slides
Width guides	Slide in sync
Locking mechanism for guides	Yes
Auto-detect paper size	Yes
Easily accessible paper type selections	Yes
Finding media selections for bypass	Auto-populated

Loading Media

DRAWERS	
Rollers or guides that could get in the way	No
Easy-to-see limit indicators in drawers	Yes
Locking guides to prevent shifting	Yes
Users must confirm paper type	No

Clearing Misfeeds

Process	Simple
LOCATIONS	
Number in front	3
Number on right	6
Number on left	0
Clearly accessible misfeed areas/Drawers pull out far enough to allow access	Yes
Easy to identify locations inside	Yes
Lighted paper path	No
Auto-purging of non-misfed sheets	No
INSTRUCTIONS	
Level of guidance on display	Average
Provided on display as	Text/Graphics
Step by step	Yes
Method	Dynamic

Replacing Toner

GENERAL	
Process	Simple and clean
On-the-fly change	No
INSTRUCTIONS	
Level of guidance on display	Extensive
Provided on display as	Text/Graphics
Inside of cover/door	No
On packaging	Yes
PART NUMBER(S)/ITEM CODE(S)	
Shown on display	No
Inside of cover/door	No
On packaging	Yes
On cartridge(s)	Yes

Replacing Other Consumables

Imaging units/Drums	Simple
Waste container	Simple
Fuser	Service-replaceable
Method	Lever
Document feeder roller	Service-replaceable
Feed roller	Service-replaceable
Transfer roller	Service-replaceable
Ozone filter	Service-replaceable

Both length and width guides for adjusting paper size slide, and the type and amount of paper in each drawer are automatically identified on the graphic image of the device on the main copy screen. Administrators can also lock down the size settings for any of the paper drawers so that a user cannot change the size, which helps to prevent errors and misfeeds. In addition to dynamic, step-by-step instructions for clearing misfeeds, all misfeed access handles are labelled green for easy identification. The device’s service module design significantly reduces the cost and time spent servicing the MFP.



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



The process for replacing toner is simple and clean, and the device's drums and waste toner are also user-replaceable. (U.S. model pictured)

Other Routine Maintenance

Charger cleaner	Yes
Lens cleaner	No
Users are prompted on display to use a cleaner at periodic intervals (for optical area)	Yes
Users are prompted on display to clean the platen at periodic intervals	No

5

FEATURES

5

FEATURES—SPECIFICATIONS

- Higher than average memory
- Highest document feeder capacity of the competitive group when DSPF is installed
- Below average maximum paper capacity

MEMORY	
Standard/Maximum	4-GB RAM
Hard drive	Standard 320-GB
MEDIA HANDLING	
Standard/Maximum	1,200/3,200 sheets
Bypass	100 sheets
Standard/Maximum paper sources	2/5
Minimum/Maximum weights through drawers	60 to 256 gsm
Minimum/Maximum weights through bypass	52 to 280 gsm
Minimum/Maximum paper sizes	100 mm x 148 mm to 320 mm x 460 mm
Number of sources that support envelopes	1 (envelope cassette)
DOCUMENT FEEDER	
Type	Optional RADF; optional DSPF
Capacity	100 sheets; 300 sheets
Minimum/Maximum paper weights	35 to 157 gsm; 35 to 209 gsm
Minimum/Maximum paper sizes	NA
OTHER	
Tandem print	Yes
ID card copy	Yes
Wireless interface	Yes

The device supports 320 mm x 460 mm paper from drawers two and three for the ability to print A3 colour bleeds on 320 mm x 460 mm paper. A 300 sheet, duplex-single pass feeder, which scans at up to 240 ipm, is available, as is a 100 sheet, reversing automatic document feeder that scans up to 73 ipm.

The optional inner finisher has two trays (100/500 sheets), while the multi-position finisher has a 2,000-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 each finisher. Offline stapling on demand for up to 50 sheets is supported on the multi-position stapling finisher.

The paper feed-pedestal adds one 550-sheet drawer; an additional 550-sheet drawer or envelope feeder cassette that can hold approximately 64 mm in height (in thickness) of envelopes can be added to the paper-feed pedestal. A 2,000-sheet LCT handles letter/A4-sized paper, while banner-sized paper can be handled via the bypass tray.

Hard Drive Storage

Method	Via print/scan
Accessing files	At device/Via embedded web server/via separate utility
Thumbnail views	Yes
Capabilities	Add/Delete/Move

The full specifications record for this device is available on bliQ.

Accessibility

Accessibility handle	Optional
Audible alerts	Yes
Braille label kit	No
Dedicated mode keys	Soft
Document feeder can be positioned on a desk	No
Enlarged display mode for scan/copy menus	Yes/Yes
Method of opening paper drawers	Handle
Remote operator software	*
Tilting control panel	Yes
Number of angles	90 degrees
Swivelling control panel	No
Voice guidance (audible instructions)	No
Voice operation (responds to commands)	No

*Supported as a service feature, but hard key operation not supported yet.

INA: The vendor declined to provide this information

NA: Not applicable

FEATURES—SOLUTIONS

NOT RATED

Featuring a new Intel multi-core processor, the device is driven by the e-Bridge Next Controller, which allows applications to now be embedded onto the MFPs themselves.

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.

Mobile capabilities available for the device includes the print and scan app for Apple and Android users. AirPrint is also supported. New scan to cloud applications supported include Google Drive, OneDrive and DropBox. 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 these can be loaded on the machine and accessed at the control panel.

Full specification records, Solutions Briefs and Solutions Test Reports are available on BLI Solutions Center.

FEATURES—ENVIRONMENTAL

NOT RATED

FEATURES	
Specified capable of running 30/50/100% post-consumer recycled paper	Yes/Yes/Yes
Instant/Quick fusing	Yes
Automatic duplexing	Standard
Toner-save mode	Yes
RoHS-compliant	Yes
Hardware remanufacturing program for this product	No
Prepaid label to return cartridges/bottles	No
Ability to program environmental features over a fleet	Yes
ECO-LABEL CERTIFICATIONS	
ENERGY STAR	Yes
Other	ECMA-370/The Eco Declaration, Germany Blue Angel, EPEAT Gold Certified, Nordic Swan, Taiwan green Mark, Thai Green Label, WEEE Directive
RATED ENERGY CONSUMPTION LEVELS (watts)	
Ready/Idle	145
Energy Save	80
Sleep	0.6
During printing	695
FASTEST PROGRAMMABLE TIMES TO ENTER LOW-POWER MODES (seconds)	
Ready/Idle	15
Energy Save	60
Sleep	60
Walk-up users can change these settings	INA

INA: The vendor declined to provide this information

NA: Not applicable

More extensive information, including test results, can be found in the device’s Environmental Test Report.

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-STUDIO5005AC base unit, plus KD 1058 Paper Feed Pedestal, MR4000 Dual Scan Doc Feeder and MJ1110 Booklet Finisher.

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 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, copied-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 #: CFDF30842.

About Buyers Laboratory LLC: Buyers Laboratory LLC (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.

CERTIFICATE OF RELIABILITY

Awarded to

TOSHIBA TEC CORPORATION

for the performance of the

Toshiba e-STUDIO5005AC

in BLI's in-house durability test



A handwritten signature in black ink, appearing to read "Gerry Stoia".

GERRY STOIA, CEO

OCTOBER 2016

DATE

This is to certify that when subjected to a 210,000-impression and 21,000-scan Buyers Lab durability test, the Toshiba e-STUDIO5005AC proved to be a highly reliable product.

BUYERS LABORATORY LLC

THE LEADING INDEPENDENT OFFICE PRODUCTS TEST LAB AND BUSINESS CONSUMER ADVOCATE

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