

e-STUDIO307LP

e-STUDIO RD301

Product brochure

- > Toshiba's unique erasable toner allows the reuse of regular office paper, saving valuable resources.
- > The e-STUDIO RD301 not only erases documents, but is also capable of scanning and archiving. Paper is sorted for you into reusable and non-reusable paper.
- > Saving paper also means saving natural resources and reducing carbon emissions.
- > Reduce your paper usage without having to print less.



Some documents need to be filed and kept. There are many reasons for this, such as legal obligations. These are permanent documents, printed with the intention to be kept long-term.

However, we often print documents even though we know that they will not be needed for long. Eventually, these documents are thrown away. Sometimes we even print documents knowing that they will be thrown away within a few minutes or hours.

Just think of all the documents that are printed out as a reminder, or to proof-read before sending. For these non-permanent documents the e-STUDIO307LP/RD301 is the perfect solution.

Toshiba has developed a system which will change the way we print. Instead of throwing away prints which are not needed anymore, you can now erase and reuse the paper.

The unique Toshiba Paper Reusing Device e-STUDIO RD301 is capable of de-colourising the text and images on documents printed on the e-STUDIO307LP, allowing you to reuse the paper, significantly reducing paper consumption. As a result, valuable resources are saved and contribute towards greener business activities. Providing an improved value-for-money ratio.

Optimising the use of resources is an effective way to increase profitability.

By using one sheet of paper five times with the e-STUDIO307LP/RD301, i.e. re-using it four times, you reduce your paper consumption by 80% without needing to print less. Assuming that you print 4,000 pages per month this means that after five years you will have saved 192,000 sheets of paper. The same amount of paper which you would usually use in one year, will now last five years.

And the more often you reuse a sheet of paper, the more you can save. Simply re-use the paper for your next non-permanent print job. Over and over again.

KEY FEATURES

- 1 The e-STUDIO307^{LP} has an efficient print speed of 30 pages per minute and operates with regular office paper.
- 2 The optional RADF for the e-STUDIO307^{LP} has a 100-sheet capacity and increases your efficiency.
- 3 Easy access to the print, scan, copy and fax function via a large colour touch panel.
- 4 Erasable blue toner, which allows the reuse of paper.
- 5 A maximum paper capacity of 2,300 sheets for smooth processing of large print jobs.
- 6 The e-STUDIORD301 erases documents printed on the e-STUDIO307^{LP}. It can also scan and archive documents - all of this within just a few seconds.
- 7 The Paper Reusing Device processes documents at a speed of 30 pages per minute.
- 8 Erased paper is automatically sorted into reusable and non-reusable paper.



REUSE BEFORE RECYCLING

Reduce - Reuse - Recycle. These 3Rs are the base of environmental awareness. The e-STUDIO307LP/RD301 now fills the gap and makes the reuse of paper possible. Most of our natural resources are limited and using them as efficiently as possible is mandatory if we want to be responsible citizens.

Trees are renewable resources, but it takes a lot more to make paper. The process involves among others the use of water - a natural resource which is vital for all known forms of life, but is becoming scarcer in certain parts of the world.

Over the past few years the process of making paper has become more and more environmentally friendly. Decades of innovations have resulted in resources being used to their fullest extent. Additionally, recycling paper has helped save resources.

Toshiba has now added a new level to environmentally conscious use of paper: Reusing it before recycling it. By using paper e.g. five times with the e-STUDIO307LP/RD301 before recycling it, it is possible to save 80% of natural resources otherwise needed to print the same volume.

FOR A GREENER TOMORROW

Efforts to reduce carbon emissions are being made on a global level. With the possibility to reuse paper when printing, the e-STUDIO307LP/RD301 helps achieve this goal.

Greenhouse gases have a huge impact on the global climate and efforts to reduce the CO₂e emissions are being made all over the world. For example the European Union aims to reduce greenhouse gas emissions by 80% by 2050.¹⁾

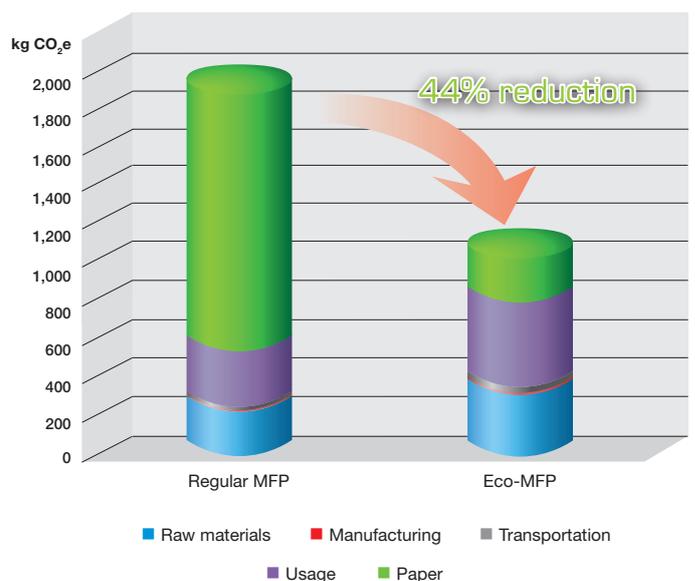
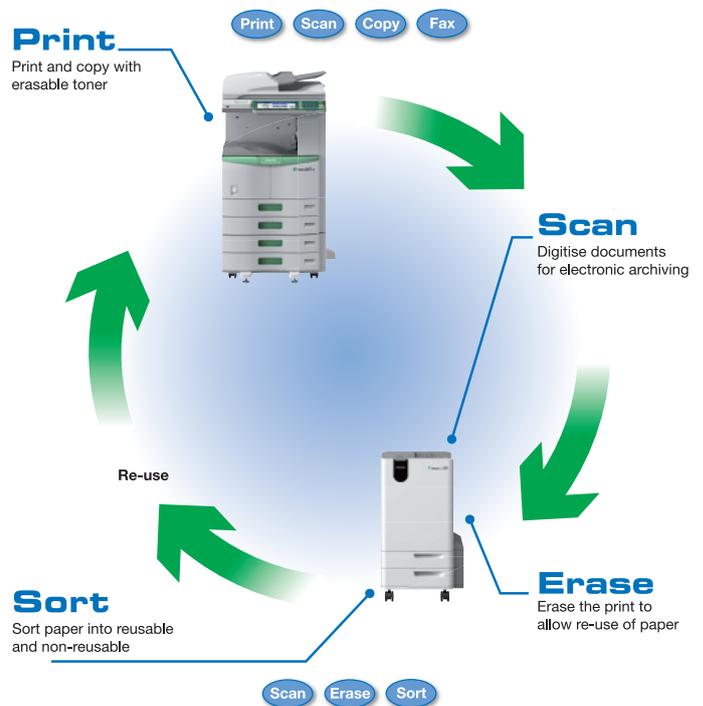
Over the entire life cycle of an MFP it is the paper - not the manufacturing, transport or usage - which accounts for largest part of the CO₂e emission. This is due to the fact that when producing one tonne of paper, approximately one tonne of CO₂e is emitted.²⁾

As the e-STUDIO RD301 is capable of erasing text and images from documents printed on the e-STUDIO307LP, it allows you to reuse the paper. As an example: when using each sheet five times, you reduce your paper consumption by 80%. This of course also significantly reduces the CO₂e emission and helps to protect the environment.

¹⁾ European Union. A Roadmap for moving to a competitive low carbon economy in 2050. 8th March 2011.

²⁾ Defra. Guidelines to Defra /DECC's GHG Conversion Factors for Company Reporting. 2011, p. 40.

CHANGING THE WAY WE PRINT



Comparison of CO₂e emission assuming an average monthly document volume of 5,000 A4 sheets over five years and 5-time usage of paper. Based on the average kg CO₂e per kWh in the European Union. Value will differ depending on country, average monthly document volume, life cycle and paper reuse.

FULLY INTEGRATED INTO YOUR FLEET

The e-STUDIO307^{LP} is more than just a green MFP. Its advanced technology is based on the Toshiba e-BRIDGE controller which ensures flexible connectivity with diverse applications and workflows.

Functionality

The e-STUDIO307^{LP} offers you full functionality. Monochrome printing and copying with special blue toner as well as the colour scan function come as standard. Functionality can be extended by adding the optional fax module.

Productivity

With a paper capacity of 2,300 sheets the e-STUDIO307^{LP} is ready to handle print jobs. You can make full use of speeds of up to 30 pages per minute without the need to refill paper. The system can also scan in colour at speeds of up to 57 images per minute (ipm) and at resolutions of up to 600 x 600 dpi.

Usability

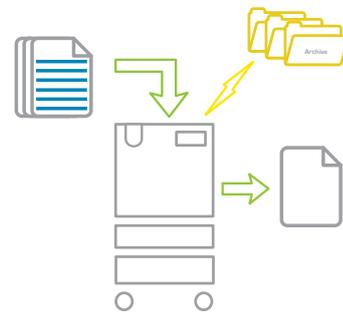
All Toshiba products are designed with the customer's needs in mind. The easy to use 9" LCD touch panel lets you access all functions the e-STUDIO307^{LP} has to offer with just a few clicks, ensuring a smooth workflow.

Connectivity

Thanks to the reliable Toshiba e-BRIDGE controller the e-STUDIO307^{LP} becomes part of your modern workflow. A large choice of optional plug-ins, connectors or a fleet management tool allow you to easily customise the system according to your needs and existing workflows.

SAVE AND ERASE

The e-STUDIO^{RD301} does more than just de-colourise paper. It fully integrates into your digital workflow and is capable of converting your documents into electronic files and saving them to a chosen location. Equipped with a single pass duplex scanner the system ensures fast conversion into JPG, TIFF or PDF format. These files are then stored on your server and become part of your digital archive, providing access to scanned content at any time.



Once the document has been digitised, the content of the sheet is erased. For this the unique toner on the paper is de-colourised by applying heat. As a consequence the toner turns from blue to transparent, thus virtually erasing everything that was printed. The erased sheet is scanned again and sorted into reusable and non-reusable paper and placed in the respective output cassette.

This entire process - archiving, erasing, sorting - is done automatically within just a few seconds. So with Toshiba's e-STUDIO307^{LP}/^{RD301}, being environmentally conscious will not stop you from using your time as productively as you are used to.

To show you how much paper you have saved, the ratio of reusable paper is shown on the display of the e-STUDIO^{RD301}. For a graphic showing this ratio, simply use one of our device management tools e.g. TopAccess.

Technically speaking...

CO₂ vs. CO₂e

Carbon dioxide (CO₂) is one of the most prevalent greenhouse gases and has become a proxy when measuring greenhouse gas emissions. However, it is only one of many greenhouse gases. Others include water vapour, methane, nitrous oxide and ozone.

To take into account the emission of these other greenhouse gases an equivalent measure has been devised by scientists: the CO₂e (carbon dioxide equivalent). It allows other greenhouse gases to be expressed in terms of CO₂.

The calculation is based on the relative global warming potential (GWP) of the different greenhouse gases. With CO₂ having a GWP of 1, methane (CH₄) e.g. has a GWP of approximately 25. Therefore, the emission of one tonne of CH₄ is equivalent to emitting 25 tonnes of CO₂.

So by using the CO₂e a far more accurate greenhouse gas emission can be measured, giving you a more precise picture of the effects of these emissions.

SPECIFICATIONS

General Specification

Print & Copy Speed	30 ppm (A4) 16 ppm (A3)
Warm-up Time	Approx. 65 seconds
Paper Size & Weight	Cassettes: A5R-A3, 64-80 gsm Bypass: A5R-A3, 64-80 gsm
Paper Capacity	2x 550 sheets (Cassettes), 1x 100 sheets (Bypass) Maximum: 2,300 sheets
Automatic Duplex	A5R-A3, 64-80 gsm
Inner Output Tray	500-sheet capacity
Controller Type	Toshiba e-BRIDGE
Control Panel	22.9 cm (9") Colour Touch Panel
Memory	Toshiba Secure HDD 320 GB ¹⁾ / 2 GB RAM
Interface	10Base-T/100Base-TX/1000Base-T, High Speed USB 2.0, WLAN ²⁾ (IEEE802.11b/g)
Dimensions & Weight	575 x 586 x 756 mm (W x D x H), ~ 56.5 Kg

Print

Resolution	600 x 600 dpi, 2,400 x 600 dpi with smoothing
Page Description Languages	PCL5e, PCL6 (PCL XL), XPS and PostScript 3 compatible
Supported Systems	Windows 10/8/7/Vista/Server 2008 (32/64 bit), Windows Server 2012 R2/Server 2008 R2 (64 bit), Mac OS X 10.6.8-10.11, Linux/Unix, Citrix, Novell NetWare (NDPS), SAP, AS/400
Network Protocols	TCP/IP (IPv4/IPv6), IPX/SPX, EtherTalk, NetBios over TCP/IP
Print Functions	Universal Printer Driver, Driver templates, Driver plug-ins ³⁾ , Hold print, Print from USB, Tandem printing, AirPrint

Scan

Resolution	Max. 600 x 600 dpi
Scan Speed	Monochrome/Colour: 57/43 ipm (300 dpi)
Scan Modes	Auto-Colour (ACS), Colour, Greyscale, Monochrome (incl. Blue Original)
File Formats	JPEG, Multi/Single Page TIFF/XPS/PDF/PDF/A, Secure PDF, Slim PDF
Scan Functions	WS Scan, Scan to USB, Scan to E-Mail, Scan to File (SMB, FTP, FTPS, IPX/SPX, local), Meta Scan ⁴⁾ , Scan to Box (e-Filing), WIA, TWAIN

Copy

Resolution	Scan: 600 x 600 dpi Print: 600 x 600 dpi, 2,400 x 600 dpi with smoothing
First Copy	Approx. 4.9 seconds
Zoom	25-400% (Platen), 25-200% (RADF) ⁵⁾
Copy Modes	Blue Original, Text, Text/Photo, Photo, Colour Document, Custom
Copy Functions	Electronic sort, 2-in-1 / 4-in-1 mode, Edge erase

Fax²⁾

Communication	Super G3, G3 - (opt. 2 nd line), Internet Fax T.37
Transmission Speed	Approx. 3 seconds per page
Compression	JBIG, MMR, MR, MH
Fax Memory	1 GB (HDD) Transmission/Reception
Network-Fax	Driver Windows 10/8/7/Vista/Server 2008/ (32/64 bit), Server 2012 R2/Server 2008 R2 (64 bit)
Incoming Fax Routing	To shared folder (SMB, FTP, IPX/SPX), E-Mail, e-Filing

System & Security

Device Management	e-BRIDGE Fleet Management System ⁶⁾ , TopAccess for remote administration and configuration
System Features	e-Filing document server for secure storage, document distribution and Print on Demand (1 public box, 200 user boxes), 12,060 one-touch templates for storage of personalised settings or workflows, e-BRIDGE Open Platform ⁷⁾ , Embedded Web Browser, Job Skip
Accounting & Security	Role Based Access, LDAP support, 1,000 department & 10,000 user codes, Card Reader ⁸⁾ , Private print, Standard data encryption with Toshiba Secure HDD, Data Overwrite Enabler ⁹⁾ , IP and MAC address filter, Port filter, Support of SSL and IPsec ⁹⁾ protocols, IEEE802.1x support, IEEE2600.1 compliant ⁹⁾ , Scan to Secure PDF

OPTIONS

For e-STUDIO307LP

e-STUDIO RD301	Paper Reusing Device (see right column for details)
RADF	100-sheet capacity, A5R-A3, 35-157 gsm
JOB SEPARATOR TRAY	2 inner trays, 150- and 250-sheet capacity
PAPER FEED PEDESTAL	550-sheet capacity (1 Cassette), A5R-A3, 64-80 gsm
DRAWER MODULE	550-sheet capacity, A5R-A3, 64-80 gsm
DESK	
WORK TRAY	
FAX BOARD	
WIRELESS LAN MODULE	
CARD READER	
DATA OVERWRITE ENABLER	
IPsec ENABLER	
META SCAN ENABLER	
UNICODE FONT ENABLER	
ACCESSIBLE ARM	

e-STUDIO307LP:



e-STUDIO RD301

General Specification

Feeding Speed	Up to 30 sheets per minute
Warm-up Time	Approx. 40 seconds
Paper Size & Weight	A5R-A4R, 64-80 gsm
Paper Capacity	Document feeder: up to 100 sheets
Output Trays	Re-usable paper cassette: up to 400 sheets Rejected paper cassette: up to 100 sheets
Control Panel	Graphic LCD panel
Memory	8 GB SSD / 2 GB RAM
Interface	10Base-T/100Base-TX/1000Base-T (incl. IPv6), High Speed USB 2.0
Dimensions & Weight	470 x 470 x 825 mm (W x D x H), ~ 45 kg

Scan

Resolution	Max. 300 x 300 dpi
Scan Speed	Up to 30 ipm
Scan Modes	Colour, Greyscale, Monochrome, Blue Original
File Formats	JPEG, Multi/Single Page TIFF/PDF/Slim PDF
Scan Functions	Single pass duplex scanning, Scan to USB, Scan to File (SMB, WebDAV)

Erase & Sort

Erase Speed	Up to 30 sheets per minute
Erase & Sort Functions	Single pass duplex erasing of Blue Original Toner and ink from Pilot FriXion pens and highlighters, Sorting based on paper condition analysis, Erasing mark counter ²⁾

System & Security

Device Management	TopAccess for remote administration and configuration (incl. reuse counter settings)
System Features	10 public templates and 10 private templates per user for storage of personalised settings and workflows, Energy save mode
Accounting & Security	LDAP support, 1,000 department & 10,000 user codes, Card Reader ²⁾ , IP and MAC address filter, port filter, support of SSL protocols

Options for e-STUDIO RD301

INK CARTRIDGE	For erasing mark counter
CARD READER	

¹⁾ 1 GB = 1 billion bytes; the actual formatted capacity is less. Available capacity will also be less if software applications are pre-installed.

²⁾ Optional

PAPERLESS VS. LESS PAPER

The arrival of paperless offices has been predicted for over 30 years. However, still we print billions of pages each year. According to an IDC study¹⁾ two million A4 pages are printed every minute in the EMEA region (Europe, Middle East and Africa) alone amounting to almost three billion pages per day.

Many of these prints and are simply thrown away. With the e-STUDIO307LP/RD301 Toshiba now allows you to reuse paper. On average each sheet can be used up to five times, having a significant impact on the environment.

So even if the time for paperless offices has not yet come, you can now use less paper without having to print less.

¹⁾IDC. Worldwide Page Volume and Vendor Share Program, October 2012.

About Toshiba TEC

Toshiba TEC UK Imaging Systems LTD is part of the globally operating Toshiba TEC Corporation, active in various high-tech industrial sectors.

Toshiba TEC Corporation is a leading provider of information technology, operating across multiple industries. With headquarters in Japan and over 80 subsidiaries worldwide, Toshiba TEC Corporation helps organisations transform the way they create, record, share, manage and display information.

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