

# What You Should Know

## Office Digital Imaging Product Evaluation

Wednesday, January 06, 2010 1:10:58 PM

**Toshiba**  
e-STUDIO455

A3 B/W 40-49 PPM MFPs  
Authorized Dealers



### Product Introduction



Introduced in June 2009, the e-STUDIO205L/255/305/355/455 Series is equipped with Toshiba's 3rd-generation e-BRIDGE controller and is designed for mid-size to large workgroups and offices. The e-STUDIO 455 is the fastest A3 MFP in the series at 45 ppm. Toshiba's Open Platform architecture enables the integration of third-party software applications, such as Microsoft SharePoint and Exchange, which can be accessed at the touch screen. Options include a 100-sheet automatic reversing document feeder (\$1,595), Super Group 3 walkup fax and document-finishing equipment

### Key Specifications and Pricing

Functions	Print/Copy/Scan/Fax	Std Media Capacity (sheets)	1,200	Price	\$10,799.00	€7,736.40	
Imaging Technology	Laser	Max Media Capacity (sheets)	3,200	Duplex	\$0.00	€0.00	
Monthly Duty Cycle (pages)	150,000	Max Media Sources	5	Print	\$0.00	€0.00	
BW/Color Print Speed (PPM)	45	Max Media Width (inches/mm)	11.0	279.4	Network	\$0.00	€0.00
Max Print Resolution (DPI)	2400x600	Max Media Length (inches/mm)	17.0	431.8	Scan	\$0.00	€0.00
Std Printer Memory (MB)	1,000	Max Media Wt. (bond, lbs./gsm)	53.0	178.9	Doc Feeder	\$1,595.00	€1,142.66
Max Printer Memory (MB)	1,000	Height (inches/mm)	30.00	762.00	Media Trays	2x550-sheet drawers	
Hard Drive (GB)	60	Width (inches/mm)	23.00	584.20	Price	\$980.00	€702.07
Hard Drive Overwrite	Yes	Depth (inches/mm)	23.00	584.20	LCT	\$1,225.00	€877.59
Ethernet Network Interface	10/100BaseT	Weight (pounds/kg)	132.0	59.9	Finisher	Hanging Finisher	
User Authentication	Yes	Power Consumption (watts)	1,500	Price	\$1,525.00	€1,092.51	

### Feature Analysis, Ratings (from 0-5, with 5 being best) and Composite Scores

<b>Value</b> <b>2.5</b>	<b>Copying</b> <b>3.0</b>	<b>Scanning</b> <b>3.0</b>	<b>Printing</b> <b>3.0</b>
<b>Overall Score</b> 29.0 Full System Price \$12,394.00 Black Cost per Page Color Cost per Page Black TCO* (5k/mo) Color TCO* (5k/mo) Mixed** TCO* (5k/mo) <small>*Base Price; **67% BW and 33% Color</small>	Copier Score 19.5 Duplex Document Feeder <input checked="" type="checkbox"/> Touch Screen <input checked="" type="checkbox"/> Hard Drive <input checked="" type="checkbox"/>	Scanner Score 18.0 Color Scanning <input checked="" type="checkbox"/> Network Scanning <input checked="" type="checkbox"/> Open Platform <input checked="" type="checkbox"/>	Printer Score 23.0 Print Processor (MHz) 667 Maximum Memory (MB) 1,000 BW/Color Print Speed 45 Windows <input checked="" type="checkbox"/> Linux <input checked="" type="checkbox"/> Apple Mac <input checked="" type="checkbox"/> PCL <input checked="" type="checkbox"/> GDI Printing <input type="checkbox"/> PostScript <input checked="" type="checkbox"/>
<b>Features</b> <b>3.5</b>	<b>Wirth Consulting Performance Ratings</b> (from 0-5, with 5 being best)		<b>Image Quality</b> <b>3.0</b>
USB Convenience Port <input checked="" type="checkbox"/> Scanner <input checked="" type="checkbox"/> Walk-Up Fax <input checked="" type="checkbox"/> LAN Fax <input checked="" type="checkbox"/> Duplex Printing <input checked="" type="checkbox"/> Network Printing <input checked="" type="checkbox"/>			Imaging Technology <b>Laser</b> Max. Resolution <b>2400x600</b> BW Office IQ <input checked="" type="checkbox"/> Color Office IQ <input type="checkbox"/> Professional IQ <input type="checkbox"/> Photographic IQ <input type="checkbox"/>
<b>Media Handling</b> <b>2.5</b>	<b>Maintenance</b> <b>2.5</b>	<b>Software</b> <b>3.5</b>	<b>Ease of Use</b> <b>2.5</b>
Max Media Sources 5 Max Wt. (bond, lbs.) 53.0 Feeds 110-lb. Index Stock <input checked="" type="checkbox"/> Max Weight from all Sources <input type="checkbox"/> Finishing <input checked="" type="checkbox"/>	Black Page Yield 30,000 All-in-One Toner Cartridge <input type="checkbox"/> Holds Full Ream of Media <input checked="" type="checkbox"/>	Desktop Software <input checked="" type="checkbox"/> Web Utilities <input checked="" type="checkbox"/> Adobe PostScript <input type="checkbox"/> Open Platform <input checked="" type="checkbox"/>	Usability Score <b>8.5</b> Graphic Display <input type="checkbox"/> Touch Screen <input checked="" type="checkbox"/> Navigation Keys <input type="checkbox"/> Holds Full Ream of Media <input checked="" type="checkbox"/>

## Consumables Pricing and Yields

\*Based on an original area coverage of 5% per color. \*\*Yield in pages

Consumable	Price	Yield**	Dev Price	Dev Yield**	Drum Price	Drum Yield**
Black Ink/Toner		30,000		150,000		150,000
Cyan Ink/Toner						
Magenta Ink/Toner						
Yellow Ink/Toner						
Multicolor Ink						
Other Type						
Other						
Maintenance Kit						

## Toshiba e-STUDIO455



A3 B/W 40-49 PPM MFPs

## Supply Cost Per Page and Total Cost of Ownership\*

\*CPP and TCO include the base price depreciated over a five-year period (not including service) \*\*Based on 66% Black/33% Color

Monthly Volume	Black CPP	Color CPP	Black TCO	Color TCO	Mixed TCO**
50 pages					
100 pages					
250 pages					
500 pages					
1,000 pages					
2,000 pages					
3,000 pages					
4,000 pages					
5,000 pages					

## Consumables CPP

(Based on an original area coverage of 5% per color)

Black Cost Per Page
Black Consumables Cost per Page
<input type="text"/>
Color Cost Per Page
Color Consumables Cost per Page
<input type="text"/>

## Strengths

- TopAccess network management and remote monitoring.
  - e-BRIDGE controller with Open Platform architecture with 1.2GHz CPU and XPS print driver.
  - Open Platform architecture allows integration of third-party software applications, such as Microsoft SharePoint and Exchange, which can be accessed at the touch screen.
  - Color network scan (includes scan to e-mail with LDAP support) and erasing outside edges of scanned files.
  - USB convenience port for print from and scan to USB memory drives. Tilttable 8.5" color touch screen.
  - Print on up to 110 lb. index via bypass tray, and add paper while the system is operating.
  - Optional Advanced Scanning option provides direct file routing to Microsoft Word and Excel applications and creation of searchable Adobe PDF files.
  - Standard Scrambler Board applies 128-bit AES encryption to electronic data stored in the hard drive, and standard network authentication (users must log in to access device functions).
  - Standard Internet fax.
- SECURITY OPTIONS: Disk-Overwrite Kit (\$590) exceeds Department of Defense (DoD) security standards.
- OPTIONS: Super Group 3 walkup fax (\$1,025 - includes PC LAN fax); Hanging Finisher (\$1,525); Console Finisher (\$2,195); Saddle-Stitch Finisher (\$3,395); Document Hole Punch (\$850); wireless LAN adapter (\$599); Bluetooth Networking (\$325), IPsec Enabler (\$799); Advanced Scanning (\$2,695); Data Overwrite (\$590); SmartCard Authentication (\$1,200).

## Limitations

- Optional automatic document feeder (\$1,595.00).

## Notes

- Pricing cannot be obtained for consumables, so consumables' cost per page cannot be calculated.

## Best Use

Offices and mid-size to large workgroups that require a customizable A3 office MFP for monochrome network print, copy, and color scan applications (optional fax), as well as for advanced scanning applications. The system's open-development platform makes it particularly suitable for use in digital-document creation/management and integration with software applications such as Microsoft SharePoint.