

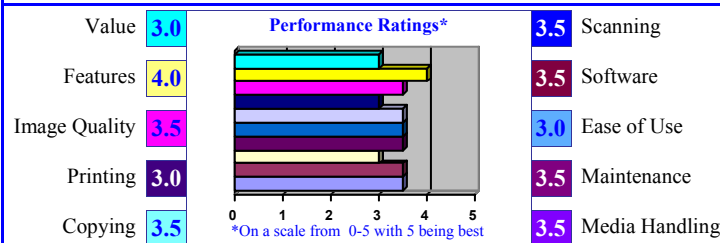
Wirth Consulting - Office ©Head2Head Comparison

Make	Canon	Imaging	Laser
Model	Color imageRUNNER C2880	Functions	Print/Copy/Scan/Fax
Base Price	\$11,000.00		
Monthly Duty Cycle (pages)	100,000		
BW/Color Print Speed (ppm)	28/26		
Max Media Width (inches)	12.63		
Classification	A3 26-32 PPM Color MFPs		



Background Information

The 28/26-ppm Color imageRUNNER C2880i is based on the same platform as the 30/28-ppm Color imageRUNNER C3080i, but the latter is slightly faster and is also priced slightly more (\$13,000 versus \$11,000). This "i" version features standard Universal Send PDF Advanced Feature-Set and Universal Send PDF Security Feature Set. Introduced in April 2008, and like the Color imageRUNNER C3080i, this color MFP is notable for a very broad array of expandability options, including an optional imagePASS-J1 (Fiery) controller, as well as custom expandability with Canon's MEAP open development platform.



Total Ratings Score	Black Consumables Cost Per Page	Color Consumables Cost Per Page
34.0	\$0.00462	\$0.05819

Total Cost of Ownership*	Black	Color	Mixed
1,000 pages per month	\$11,276.92	\$14,491.21	\$12,224.87
2,000 pages per month	\$11,553.85	\$17,982.42	\$15,559.74
3,000 pages per month	\$11,830.77	\$21,473.63	\$18,894.60
4,000 pages per month	\$12,107.69	\$24,964.84	\$16,229.47
5,000 pages per month	\$12,384.62	\$28,456.04	\$17,564.34

*Base Price

Strengths

- Print on up to 12.62"x18" media via bypass tray (print on up to 12"x18" media via main media sources).
- Web Access Software option (navigate the Web from the touch screen, print Web content).
- Optional imagePASS-J1 (Fiery) controller (Fiery System 8e, PANTONE color-matching, Adobe PostScript driver, 1.2 GHz Celeron CPU, etc.).
- Standard color network scanning; scan to e-mail (5 LDAP servers), SMB, file server (FTP, IPX, WebDAV), hard-drive memory, and to optional Super Group 3 fax and Internet fax. Distribute scanned documents to multiple destinations in a single operation. TWAIN driver.
- Supports MEAP (Multifunctional Embedded Application Platform), an application development platform that allows developers to create embedded applications for Canon MFPs that can be executed on the MFP itself.
- Optional PostScript 3 print driver.
- Optional single-position stapler finisher, double-position stapler-finisher, saddle-stitch booklet maker, document hole-puncher.
- imageWARE Enterprise Management Console for network management; Remote UI for client/device monitoring/management.
- Security provisions include network authentication (SSO, SDL); department ID mode with optional control card/card reader system; , IPv6; signature PDFs; hard-drive erase; hard-drive encryption; secure watermark; network application on/off; USB block; Smart Card Authentication. Optional eCopy suite, imageWARE suite, Workflow Composer.

Limitations

- The vendor of this device did not respond to requests to review this report. Consequently, because pricing and page yields were not confirmed, consumables cost per page cannot be confirmed.

Notes

- Consumables' pricing and yields shown are for OEM Canon supply items ordered online via the Web.
- CPU MHz not available (uses Canon Dual Custom Processor).

Best Use

Small to mid-size offices and workgroups, and enterprises, that are seeking a versatile and robust color MFP for both basic office applications as well as more advanced workflow applications. When equipped with the optional imagePASS-J1 controller, the system will be suitable for light production and creative applications.

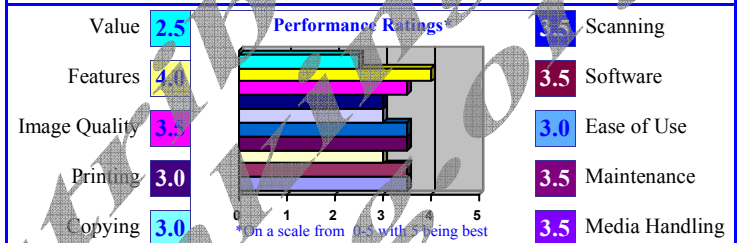
Wirth Consulting - Office ©Head2Head Comparison

Make	Canon	Imaging	Laser
Model	Color imageRUNNER C3080	Functions	Print/Copy/Scan/Fax
Base Price	\$13,000.00		
Monthly Duty Cycle (pages)	100,000		
BW/Color Print Speed (ppm)	30/28		
Max Media Width (inches)	12.62		
Classification	A3 26-32 PPM Color MFPs		



Background Information

Introduced in April 2008, the imageRUNNER C3080i represents Canon's next-generation color MFP. This "i" version features Canon's Universal Send PDF Advanced Feature Set (PDF High Compression and Trace-and-Smooth modes, etc. and Universal Send PDF Security Feature Set (create encrypted PDFs). An optional imagePASS-J1 (Fiery) controller sourced from EFI is available, and is for light production and graphic-intensive applications. The system is notable for a very broad range of expandability options, including options for document-management, workflow, scanning, accessibility, and security. Incorporates Canon's MEAP open development platform.



Total Ratings Score	Black Consumables Cost Per Page	Color Consumables Cost Per Page
33.0	\$0.00462	\$0.05819

Total Cost of Ownership*	Black	Color	Mixed
1,000 pages per month	\$13,276.92	\$16,491.21	\$14,204.87
2,000 pages per month	\$13,553.85	\$19,982.42	\$15,539.74
3,000 pages per month	\$13,830.77	\$23,473.63	\$16,874.60
4,000 pages per month	\$14,107.69	\$26,964.84	\$18,209.47
5,000 pages per month	\$14,384.62	\$30,456.04	\$19,544.34

*Base Price

Strengths

- Print on up to 12.62"x18" media via bypass tray (print on up to 12"x18" media via main media sources).
- Web Access Software option (navigate the Web from the touch screen, print Web content).
- Optional imagePASS-J1 (Fiery) controller (Fiery System 8e, PANTONE color-matching, Adobe PostScript driver, 1.2 GHz Celeron CPU, etc.).
- Standard color network scanning; scan to e-mail (5 LDAP servers), SMB, file server (FTP, IPX, WebDAV), hard-drive memory, and to optional Super Group 3 fax and Internet fax. Distribute scanned documents to multiple destinations in a single operation. TWAIN driver.
- Supports MEAP (Multifunctional Embedded Application Platform), an application development platform that allows developers to create embedded applications for Canon MFPs that can be executed on the MFP itself.
- Optional PostScript 3 print driver, single-position stapler finisher, double-position stapler-finisher; saddle-stitch booklet maker, document hole-puncher.
- imageWARE Enterprise Management Console for network management; Remote UI for client/device monitoring/management.
- Security provisions include network authentication (SSO, SDL); department ID mode with optional control card/card reader system; IPv6; signature PDFs; hard-drive erase; hard-drive encryption; secure watermark; network application on/off; USB block; Smart Card Authentication.
- Optional eCopy suite, imageWARE suite, Workflow Composer.

Limitations

- The vendor of this device did not respond to requests to review this report. Consequently, because pricing and page yields were not confirmed, consumables cost per page cannot be confirmed.


Notes

- Consumables' pricing and yields shown are for OEM Canon supply items ordered online via the Web. Option prices are also when ordered online via the Web.
- CPU MHz not available (uses Canon Dual Custom Processor).

Best Use

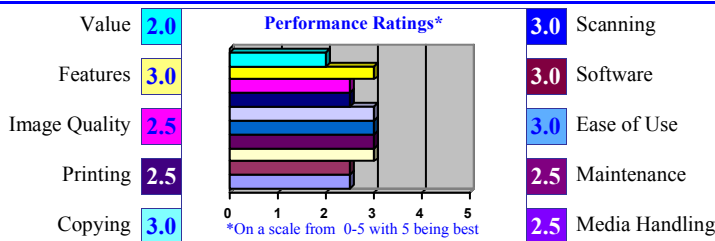
Small to mid-size offices and workgroups, and enterprises, that are seeking a versatile and robust color MFP for both basic office applications as well as more advanced workflow applications. When equipped with the optional imagePASS-J1 controller, the system will be suitable for light production and creative applications.

Wirth Consulting - Office ©Head2Head Comparison

Make	Kyocera Mita	Imaging	Laser
Model	KM-3232E	Functions	Print/Copy/Scan/Fax
Base Price	\$10,711.00		
Monthly Duty Cycle (pages)	125,000		
BW/Color Print Speed (ppm)	32/32		
Max Media Width (inches)	11.00		
Classification	A3 26-32 PPM Color MFPs		

Background Information

The KM-3232E is virtually the same as the 32/25-ppm KM-C3235E, but color print speed is faster at 32/32 ppm, and the KM-3232E is thus priced slightly more (the KM-3232E also has a faster CPU and a higher maximum monthly volume). Both feature compression and encryption of documents scanned into Adobe PDF format. Some other expandability options include iTag document management (for integration with Microsoft SharePoint Services), Data Security Kit, Secure Network Interface and KYOcapture document management and workflow.



Total Ratings Score	Black Consumables Cost Per Page	Color Consumables Cost Per Page
27.0	\$0.01365	\$0.05488

Total Cost of Ownership*	Black	Color	Mixed
1,000 pages per month	\$11,370.00	\$13,844.09	\$12,072.75
2,000 pages per month	\$12,029.00	\$16,977.17	\$15,541.61
3,000 pages per month	\$12,688.00	\$20,110.26	\$18,010.46
4,000 pages per month	\$13,347.00	\$23,243.34	\$16,479.32
5,000 pages per month	\$14,805.00	\$27,175.43	\$18,739.19

*Base Price

Strengths

- Print on up to 120 lb. index via bypass tray (print on up 28 lb. bond via main paper sources).
- Network management includes Kyocera Command Center and KM-NET Admin; KM-NET Viewer for clients for device monitoring.
- Standard color network scanning to file (PC/Mac), FTP, e-mail, hard-drive memory; TWAIN driver (PC/Mac); LDAP Converter Utility. Optional KM Document Flow for scanning to databases. Network Advanced Setup Utilities; Scan to Mac Utility.
- Standard PRESCRIBE for electronically storing forms, letterhead, etc. and merging with printed output.
- Optional 3,000-sheet stapler finisher (staple up to 50 pages; three staple positions); saddle-stitch booklet maker with optional 2/3 hole punch and optional booklet folder.
- Optional iTag document management includes integration with Microsoft SharePoint Services 3.0 document repository, server kiosk, and touch-screen station.
- Optional KYOcapture and KYOcapture Express for document management and workflow (and integration with Microsoft SharePoint, Sentry File, Laser Fish, etc.); optional EquiTrac solution for cost accounting and recovery.
- Optional data Security Kit provides security overwrite and encryption for print, copy, and scan jobs. Optional Secure Enhanced Network Interface Card provides IP Filtering, SSL/TLS (HTTPS), SNMP V2c/V3, IPv6, and IEEE802.1x (EAP TLS/PEAP).
- Optional Super Group 3 fax, LAN fax, and Internet fax.

Limitations

The vendor of this device did not respond to requests to review this report. Consequently, because pricing and page yields were not confirmed, consumables cost per page cannot be confirmed.


Notes

- Consumables' pricing and yields shown are for OEM Kyocera Mita items ordered online via the Web.
- Maintenance Kits includes drum, developer units, fuser, transfer belt.
- Optional document feeder (100-sheet RADF).

Best Use

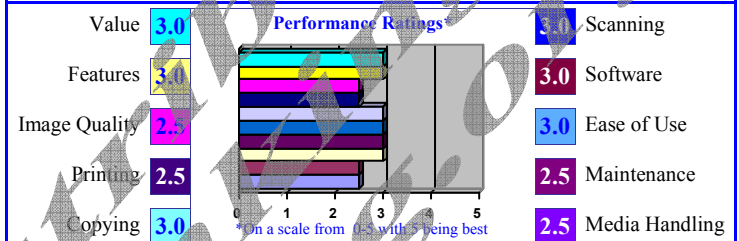
Small to mid-size offices and workgroups that are seeking a versatile color MFP that is economical to operate, and is suitable for basic office applications, as well as workflow applications.

Wirth Consulting - Office ©Head2Head Comparison

Make	Kyocera Mita	Imaging	Laser
Model	KM-C3225E	Functions	Print/Copy/Scan/Fax
Base Price	\$9,722.00		
Monthly Duty Cycle (pages)	100,000		
BW/Color Print Speed (ppm)	32/25		
Max Media Width (inches)	11.00		
Classification	A3 26-32 PPM Color MFPs		

Background Information

Introduced in July 2007, the KM-C3225E color MFP features Adobe PDF compression and encryption. With this feature, users can scan a document, and convert it into an Adobe PDF that is compressed in size (for faster transmission) as well as encrypt the PDF and designate a key in order for the e-mail recipient to open the PDF. Some other expandability options include iTag document management (for integration with Microsoft SharePoint Services), PDF Direct Printing, Data Security Kit, Secure Network Interface Card, and KYOcapture for document management and workflow.



Total Ratings Score	Black Consumables Cost Per Page	Color Consumables Cost Per Page
28.0	\$0.01365	\$0.05488

Total Cost of Ownership*	Black	Color	Mixed
1,000 pages per month	\$10,381.00	\$12,855.09	\$11,093.64
2,000 pages per month	\$11,040.00	\$15,988.17	\$12,562.50
3,000 pages per month	\$11,699.00	\$19,121.26	\$14,031.35
4,000 pages per month	\$12,358.00	\$22,254.34	\$15,500.21
5,000 pages per month	\$13,816.00	\$26,186.43	\$17,760.08

*Base Price

Strengths

- Print on up to 120 lb. index via bypass tray (print on up 28 lb. bond via main paper sources).
- Network management includes Kyocera Command Center and KM-NET Admin; KM-NET Viewer for clients for device monitoring.
- Standard color network scanning to file (PC/Mac), FTP, e-mail, hard-drive memory; TWAIN driver (PC/Mac); LDAP Converter Utility. Optional KM Document Flow for scanning to databases. Network Advanced Setup Utilities; Scan to Mac Utility.
- Standard PRESCRIBE solution for electronically storing forms, letterhead, etc. in the device, and merging with printed output.
- Optional 3,000-sheet stapler finisher (staple up to 50 pages; three staple positions); saddle-stitch booklet maker with optional 2/3 hole punch and optional booklet folder.
- Optional iTag document management includes integration with Microsoft SharePoint Services 3.0 document repository, server kiosk, and touch-screen station.
- Optional KYOcapture and KYOcapture Express for document management and workflow (and integration with Microsoft SharePoint, Sentry File, Laser Fish, etc.); optional EquiTrac solution for cost accounting and recovery.
- Optional data Security Kit provides security overwrite and encryption for print, copy, and scan jobs.
- Optional Super Group 3 fax, LAN fax, and Internet fax.
- Preventive Maintenance (PM) cycle of 300,000 pages for less downtime.

Limitations

The vendor of this device did not respond to requests to review this report. Consequently, because pricing and page yields were not confirmed, consumables cost per page cannot be confirmed.


Notes

- Consumables' pricing and yields shown are for OEM Kyocera Mita items ordered online via the Web.
- Optional document feeder (100-sheet RADF).
- Maintenance Kit includes drum, developer units, fuser, transfer belt.

Best Use

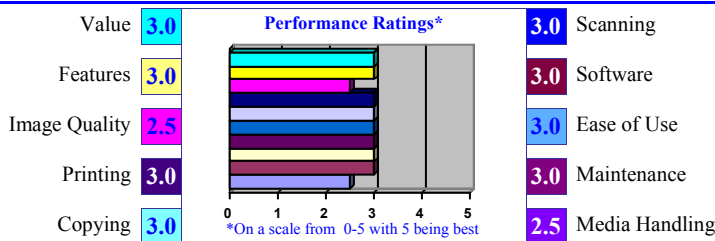
Small to mid-size offices and workgroups that are seeking a versatile color MFP that is economical to operate, and is suitable for basic office applications, as well as workflow applications.

Wirth Consulting - Office ©Head2Head Comparison

Make	Kyocera Mita	Imaging	Laser
Model	TASKalfa 300ci	Functions	Print/Copy/Scan/Fax
Base Price	\$9,950.00		
Monthly Duty Cycle (pages)	130,000		
BW/Color Print Speed (ppm)	30/30		
Max Media Width (inches)	11.00		
Classification	A3 26-32 PPM Color MFPs		

Background Information

Kyocera Mita introduced the TASKalfa 300ci in January 2009 as part of its next-generation TASKalfa 500ci/400ci/300ci/250ci series of office color MFPs. The series is based on a new color print engine that features eight-bit color output and the company's new micro-particle toner. At a rated print speed 30/30 ppm, the TASKalfa 300ci is the mid-range system in the series (the TASKalfa 500ci is the fastest system in the series at 50/40 ppm). These color MFPs use Kyocera Mita's long-life consumables, including the company's patented Amorphous Silicon (Asi) imaging drum. They also feature a 300,000-page PM cycle for fewer service visits and less downtime.



Total Ratings Score	Black Consumables Cost Per Page	Color Consumables Cost Per Page
29.0	\$0.00475	\$0.04948

Total Cost of Ownership*	Black	Color	Mixed
1,000 pages per month	\$10,235.00	\$12,918.50	\$11,018.21
2,000 pages per month	\$10,520.00	\$15,887.00	\$12,185.91
3,000 pages per month	\$10,805.00	\$18,855.50	\$13,353.62
4,000 pages per month	\$11,090.00	\$21,824.00	\$14,521.32
5,000 pages per month	\$11,375.00	\$24,792.50	\$15,689.03

*Base Price

Strengths

- Incorporates Kyocera Mita's HyPAS (Hybrid Platform for Advanced Solutions) for development of advanced custom software applications.
- Print on up to 120 lb. index via bypass tray (print on up to 90 lb. index via main paper sources).
- Network management includes Kyocera Command Center and KM-NET Admin; KM-NET Viewer for clients for device monitoring.
- Optional PRESCRIBE for electronically storing forms, letterhead, etc. and merging with printed output. Microsoft XPS driver.
- Standard color network scanning includes scan to folder (SMB), FTP, e-mail, hard-drive memory, USB memory cards, and WSD scan. TWAIN and WIA scan drivers provided.
- Optional 3,000-sheet or 1,000-sheet finisher for staple/sort.
- Optional KYOCapture and KYOCapture Express for document management (and integration with Microsoft SharePoint, Sentry File, Laser Fishe, etc.); optional EquiTrac solution for cost accounting and recovery.
- Optional Data Security Kit provides security and encryption for print, copy and scan jobs.
- Optional Super Group 3 fax, LAN fax and Internet fax.
- Network management and client device monitoring.
- USB convenience port for print from and scan to USB memory devices.
- Preventive Maintenance (PM) cycle of 300,000 pages for less downtime.

Limitations

- The vendor of this device did not respond to requests to review this report. Consequently, because pricing and page yields were not confirmed, consumables cost per page cannot be confirmed.


Notes

- Consumables' pricing and yields shown are for OEM Kyocera Mita items ordered online via the Web.
- Optional document feeder (100-sheet Dual Scan Document Processor or 100-sheet RADF).

Best Use

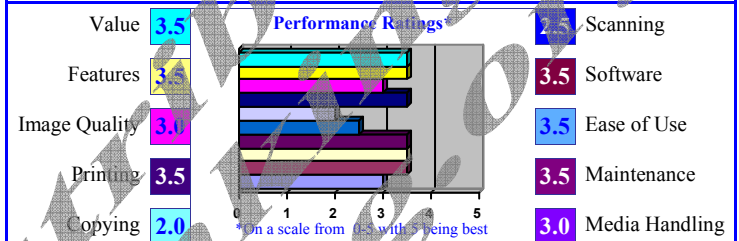
Small to mid-size offices and workgroups that are seeking a versatile color MFP that is economical to operate, and is suitable for basic office applications, as well as workflow applications.

Wirth Consulting - Office ©Head2Head Comparison

Make	Panasonic	Imaging	Laser
Model	DP-C266/DP-C265	Functions	Print/Copy/Scan/Fax
Base Price	\$11,531.00		
Monthly Duty Cycle (pages)	65,000		
BW/Color Print Speed (ppm)	26/26		
Max Media Width (inches)	12.00		
Classification	A3 26-32 PPM Color MFPs		

Background Information

As part of Panasonic's next-generation C3 series of A3 color MFPs for the office, the DP-C266 boasts an upgraded CPU (1 GHz versus 667 MHz), 160-GB hard drive, longer-life imaging drums, Bates stamping, mixed-original-size duplexing, upgraded Ethernet Gigabit network interface. It also features Panasonic's Induction Heating technology that eliminates the pre-heating process, with the result being faster First Page Out Times (FPOTs). Of note is an optional Adobe PostScript 3 print driver, and the ability to print on up to 12" x 36" media, making the system suitable for producing color banners and signage, as well as other large-format applications.



Total Ratings Score	Black Consumables Cost Per Page	Color Consumables Cost Per Page
41.5	\$0.00268	\$0.03193

Total Cost of Ownership*	Black	Color	Mixed
1,000 pages per month	\$11,691.71	\$13,446.71	\$12,153.95
2,000 pages per month	\$11,852.43	\$15,362.43	\$12,892.20
3,000 pages per month	\$12,013.14	\$17,278.14	\$13,630.46
4,000 pages per month	\$12,173.86	\$19,193.86	\$14,368.72
5,000 pages per month	\$12,334.57	\$21,109.57	\$15,106.98

*Base Price

Strengths

- Competitive Total Cost of Ownership and B/W and color consumables' cost per page.
- SD card/USB interface for printing files stored on SD memory cards (including JPEG and TIFF photos captured with digital cameras, MS Word, MS PowerPoint and Adobe PDFs) and from USB memory devices. Downloaded images appear as thumbnails on the touch screen. Standard USB convenience port. 10Base-T/100Base-TX /1000 Base-T Ethernet interface.
- Optional Document Distribution System Server Software for automating scan-and-distribute tasks. Receive inbound faxes into specified folders; automatically distribute scanned files; create text-searchable, secure PDFs, notify users of distributed scanned files. OCR software.
- Full-color 8.5" touch screen/control panel can be tilted for easier viewing and programming, and a custom image can be added to the right side of the display panel.
- Optional Network Accounting Manager for tracking use by department or user. Job Tracking log data can be viewed with a Web browser. Also tracks scanning activity (users, destinations, etc.). Color restrictions.
- Optional Printer Controller Module provides Adobe PostScript 3 print driver.
- Print on up to 12"x 36" via bypass tray (main paper sources accept up to 11"x17"). Print on up to 140 lb. index via bypass tray (print on up to 45 lb. bond via main paper sources).
- Standard Internet fax, optional Super Group 3 walkup fax.
- Quick Image Navigator software provides thumbnail previews of scanned PDF files at the PC or Mac; users can then annotate, edit and send files. Optional Remote

- Wirth Consulting has determined that this device does not have any notable limitations and should provide good functionality.

Notes

- OPC drum for black/color yields 59,000 B/W pages or 54,000 color pages.

Best Use

Small to mid-size offices and workgroups, and enterprises that are seeking a robust color MFP for both advanced office applications as well as basic workflow applications.

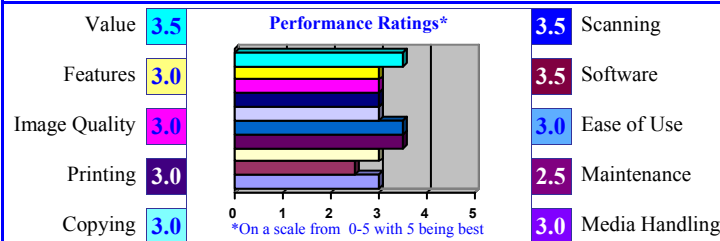
Wirth Consulting - Office ©Head2Head Comparison

Make Ricoh	Imaging Laser
Model Aficio MP C2800SPF/C2800	Functions Print/Copy/Scan/Fax
Base Price \$11,300.00	
Monthly Duty Cycle (pages) 150,000	
BW/Color Print Speed (ppm) 28/28	
Max Media Width (inches) 12.00	
Classification A3 26-32 PPM Color MFPs	



Background Information

The Aficio MP C2800 series is noteworthy for the broad range of options with which it can be equipped. (Note that the two models are essentially the same except that the non-SPF version lacks walk-up and LAN fax.) Standard features includes 50-sheet ARDF, network scanning and automatic duplex. Options include: Fiery ES3100 Print Controller (\$4,500); Booklet Finisher (10 saddle-stitched/50 finished sheets-\$3,150); 1,000-Sheet Finisher (50 sheets-\$1,480); 500-sheet Finisher (50 sheets-\$1,045); 2-Tray Paper Bank (2x550 sheets-\$1,520); 2,000-Sheet Tandem Paper Trays (\$580); 3,000-sheet LCT (\$1,570); Java VM Card for Embedded Software Architecture; Bluetooth; Camera Direct Print, USB 2.0/SD Slot; Gigabit Ethernet; Adobe PostScript.



Total Ratings Score	Black Consumables Cost Per Page	Color Consumables Cost Per Page
31.0	\$0.00344	\$0.03866

Total Cost of Ownership*	Black	Color	Mixed
1,000 pages per month	\$11,506.40	\$13,619.60	\$12,088.69
2,000 pages per month	\$11,712.80	\$15,939.20	\$12,990.38
3,000 pages per month	\$11,919.20	\$18,258.80	\$13,892.08
4,000 pages per month	\$12,125.60	\$20,578.40	\$14,793.77
5,000 pages per month	\$12,332.00	\$22,898.00	\$15,695.46

*Base Price

Strengths	Limitations
<ul style="list-style-type: none"> •Relatively low consumables' cost per page. •With optional Mail-To-Print feature, users can send a PDF or JPG file e-mail to the printer and it will automatically print. •Document Server allows user store/retrieve and print documents from the Aficio control panel or the Web Image Monitor printer home page •Compatible with SmartDevice Monitor Client/Admin/Web monitoring/management solutions •Compressed scan to PDF •Sample, Lock (Secure), Store and Hold print •Pantone Color Palette •Optional Hard Disk/data/password encryption and DOSS Hard Disk Overwrite •User authentication can restrict user access to specific functions (such as color scanning) •Optional Adobe PostScript, forward-fax-to-e-mail and scan to USB 2.0/SD card slot •Optional GlobalScan authenticated scan-and-distribute system, eCopy ShareScan and Card Authentication •Optional solutions include DocuLex, Omtool and other document-management oriented workflows 	<ul style="list-style-type: none"> •The vendor of this device did not respond to requests to review this report. Consequently, because pricing and page yields were not confirmed, consumables' cost per page cannot be confirmed.
Notes	Notes
<ul style="list-style-type: none"> •Pricing and yields shown are for OEM Ricoh supply items when ordered from the Web. 	<ul style="list-style-type: none"> •Consumables' pricing and yields shown are for OEM Ricoh supply items when ordered online via the Web. Option prices are also when ordered line via the Web.

Best Use

Small to mid-size offices, workgroups and enterprises that need a secure and full-featured color MFP with strong document management capabilities that can easily handle virtually any other office application.

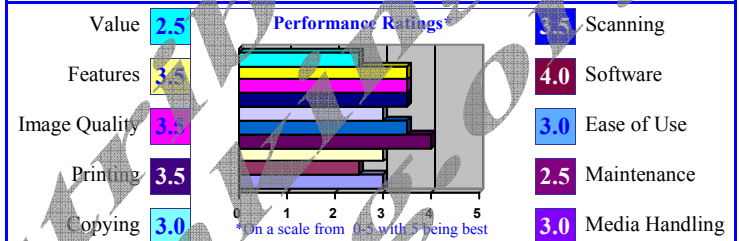
Wirth Consulting - Office ©Head2Head Comparison

Make Ricoh	Imaging Laser
Model Aficio MP C3000 EFI	Functions Print/Copy/Scan/Fax
Base Price \$17,050.00	
Monthly Duty Cycle (pages) 150,000	
BW/Color Print Speed (ppm) 30/30	
Max Media Width (inches) 12.00	
Classification A3 26-32 PPM Color MFPs	



Background Information

The Aficio MP C3000 EFI is built on the same platform as the MP C3000 but is equipped with an Electronics for Imaging (EFI) E-3000 External Print Controller running System 8e that includes Fiery production-quality printing tools such as ColorWise, Hot Folders and variable data printing (VDP). The standard Fiery Scanning Tools include scan to e-mail, URL, Fiery Hold Queue, Fiery Mailbox and TWIN. The MP C3000 EFI offers the same finishing and media handling options as the MP C3000 platform, but its Fiery Controller makes it more appropriate for light production and graphic-arts applications.



Total Ratings Score	Black Consumables Cost Per Page	Color Consumables Cost Per Page
32.0	\$0.00328	\$0.03068

Total Cost of Ownership*	Black	Color	Mixed
1,000 pages per month	\$17,246.50	\$18,890.50	\$17,616.56
2,000 pages per month	\$17,443.00	\$20,731.00	\$18,353.61
3,000 pages per month	\$17,639.50	\$22,571.50	\$19,090.67
4,000 pages per month	\$17,836.00	\$24,412.00	\$19,827.72
5,000 pages per month	\$18,032.50	\$26,252.50	\$20,564.78

*Base Price

Strengths	Limitations
<ul style="list-style-type: none"> •Relatively low consumables' cost per page. •Document Server allows user to store scanned documents in hard-drive memory, and then retrieve and print them from the control panel or using the Web Image Monitor printer home page. •SmartDevice Monitor Client/Admin/Web network monitoring/management solutions. •DeskTopBinder/ScanRouter Lite Document Management Software. •Fiery Command WorkStation (Microsoft Windows Edition, Apple Macintosh Edition); ColorWise Pro Tools; Fiery Scan (TWIN plug-in, Remote Scan); Fiery Printer Delete Utility; Fiery Mail Port; Fiery Web Tools •Optional Bluetooth and DOSS hard-drive overwrite •Optional EFI Spot-On, EFI Hot Folders/Virtual Printers, Auto Trapping, EFI Impose, EFI Color Profiler Suite. •Optional solutions provide print-assessment and cost-recovery Systems and workflows. •Print on up to 140 lb. index stock. 	<ul style="list-style-type: none"> •The vendor of this device did not respond to requests to review this report. Consequently, because pricing and page yields were not confirmed, consumables' cost per page cannot be confirmed.
Notes	Notes
<ul style="list-style-type: none"> •Consumables' pricing and yields shown are for OEM Ricoh supply items when ordered online via the Web. Option prices are also when ordered line via the Web. 	<ul style="list-style-type: none"> •Consumables' pricing and yields shown are for OEM Ricoh supply items when ordered online via the Web. Option prices are also when ordered line via the Web.

Best Use

Small to mid-size offices and workgroups, and enterprises, that require a full-featured color MFP primarily for graphic-arts, print-for-pay, light production and basic office applications.

Wirth Consulting - Office ©Head2Head Comparison

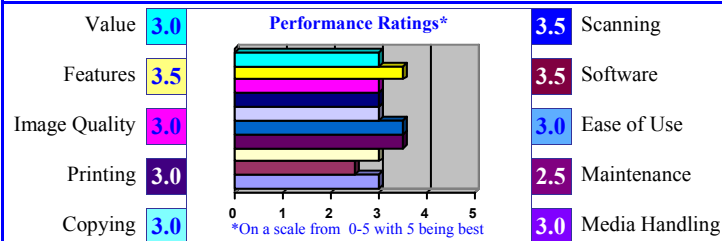
Make Ricoh	Imaging Laser
Model Aficio MP C3000SPF/C3000	Functions Print/Copy/Scan/Fax
Base Price	\$12,550.00
Monthly Duty Cycle (pages)	150,000
BW/Color Print Speed (ppm)	30/30
Max Media Width (inches)	12.00
Classification A3 26-32 PPM Color MFPs	

Well Worth Consideration!



Background Information

The Aficio MP C3000 series provides the same feature set as the MP C2800 platform but adds more security and advanced workflows. Note that the Aficio MP C3000SPF/MP C3000 are essentially the same except that the non-SPF version lacks walk-up and LAN fax. Both feature standard ARDF, network scan and auto duplexing, and can be expanded with: Booklet Finisher (10 saddle-stitched/50 finished sheets-\$3,150), 1,000-Sheet Finisher (50 sheets-\$1,480), 500-Sheet Finisher (50 sheets-\$1,045), Paper Bank (2x550 sheets-\$1,520), 2,000-Sheet Tandem Paper Trays (\$580), Java VM Card; Bluetooth; Camera Direct Print, USB 2.0/SD Slot; Gigabit Ethernet; Adobe PostScript.



Total Ratings Score	Black Consumables Cost Per Page	Color Consumables Cost Per Page
31.0	\$0.00328	\$0.03068

Total Cost of Ownership*	Black	Color	Mixed
1,000 pages per month	\$12,746.50	\$14,390.50	\$13,161.56
2,000 pages per month	\$12,943.00	\$16,231.00	\$13,898.61
3,000 pages per month	\$13,139.50	\$18,071.50	\$14,635.67
4,000 pages per month	\$13,336.00	\$19,912.00	\$15,372.72
5,000 pages per month	\$13,532.50	\$21,752.50	\$16,109.78

*Base Price

Strengths	Limitations
<ul style="list-style-type: none"> •Relatively low consumables' cost per page. •Document Server allows user to store scanned documents in hard-drive memory, and then retrieve and print them from the control panel or using the Web Image Monitor printer home page. •SmartDevice Monitor Client/Admin/Web network monitoring/management solutions. •DeskTopBinder Lite Document Management Software. •PDF Encryption and Direct Print with Password Protection •Optional hard-drive/data/password encryption and DOSS hard-drive overwrite. •User authentication for restricting user access to specific functions (such as color scanning). •Optional Adobe PostScript, forward-fax-to-e-mail and scan to USB 2.0/SD card slot •Optional GlobalScan authenticated scan-and-distribute system, eCopy ShareScan and Card Authentication. •Optional solutions provide scan/capture/imaging, Forms Creation, Variable Data and Host Printing, and assessment and cost-recovery systems and workflows. •Optional Copy Data Security Unit protects against the scanning/copying of documents. 	<ul style="list-style-type: none"> •The vendor of this device did not respond to requests to review this report. Consequently, because pricing and page yields were not confirmed, consumables' cost per page cannot be confirmed.
Notes	Notes
<ul style="list-style-type: none"> •Consumables' pricing and yields shown are for OEM Ricoh supply items when ordered from the Web. Option prices are also when ordered line via the Web. 	<ul style="list-style-type: none"> •Note that Sharp does not publish consumables pricing. However, Wirth Consulting research indicates that both consumables' cost per page and Total Cost of Ownership is very competitive.

Best Use

Small to mid-size offices, workgroups and enterprises that require a module and fully featured color MFP with advanced security, print workflow and monitoring/tracking capabilities that can handle virtually any office application.

Wirth Consulting - Office ©Head2Head Comparison

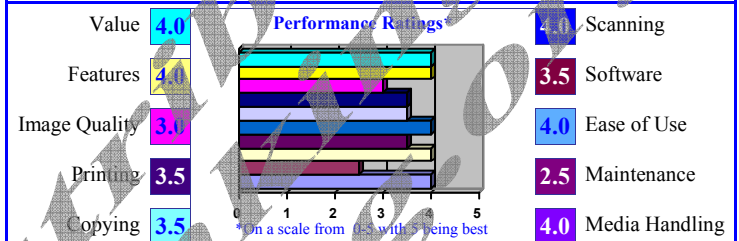
Make Sharp	Imaging Laser
Model MX-2600N	Functions Print/Copy/Scan/Fax
Base Price	\$11,595.00
Monthly Duty Cycle (pages)	90,000
BW/Color Print Speed (ppm)	26/26
Max Media Width (inches)	11.00
Classification A3 26-32 PPM Color MFPs	

Best in Class
Highest Overall Rating



Background Information

Sharp's MX-2600N is part of its second-generation product family of workgroup color MFPs introduced in August 2008. As such, it features a number of important upgrades, including a more powerful CPU (800 MHz), Gigabit Ethernet network interface for faster data transmission, new microfine toner for enhanced image quality, 8.5" color touch screen, and full-size retractable keyboard, the last of which provides much easier data entry (especially when entering e-mail addresses and messages).



Total Ratings Score	Black Consumables Cost Per Page	Color Consumables Cost Per Page
36.0		

Total Cost of Ownership*	Black	Color	Mixed
1,000 pages per month			
2,000 pages per month			
3,000 pages per month			
4,000 pages per month			
5,000 pages per month			

*Base Price

Strengths	Limitations
<ul style="list-style-type: none"> •Supports Sharp's Open Systems Architecture (OSA) 3.0 open-development platform (uses XML, SOAP) for incorporating network applications, such as document-workflow applications, that can be accessed at the touch screen. •High-resolution color touch screen supports graphics, and Web-based HTML for integrating moving video; also supports integrating card-swiping for user authentication. •Standard color network scanning. With ImageSEND, users can scan documents up to 7 different destinations with just a touch of a key, including to USB memory devices, network folders, e-mail (supports LDAP), desktop, FTP, SMB, and to optional Super Group 3 fax and Internet fax. Preview scanned documents as thumbnail images on touch screen. 30-GB of memory is provided for document storage. With Send-to-Group, users can send a mixed group broadcast to e-mail, fax and Internet fax in a single operation. •Web-based network administration; Printer Administration Utility; Printer Status Monitor. •Security includes encrypted PDFs; Document Control; SSL; network authentication; job accounting (up to 1,000 users); IP/MAC address filtering; document administration; port filtering, etc. Optional Data Security Kit adds AES data encryption and hard-drive overwriting. •Optional Remote Front Panel (view and operate the touch screen/control panel from a PC). •Optional PostScript 3 and Microsoft Windows XPS drivers; optional stapler finisher, saddle-stitch booklet-maker; two document hole-punchers. USB convenience port. 	<ul style="list-style-type: none"> •Wirth Consulting has determined that this device does not have any notable limitations and should provide good functionality.
Notes	Notes
<ul style="list-style-type: none"> •Note that Sharp does not publish consumables pricing. However, Wirth Consulting research indicates that both consumables' cost per page and Total Cost of Ownership is very competitive. 	<ul style="list-style-type: none"> •Note that Sharp does not publish consumables pricing. However, Wirth Consulting research indicates that both consumables' cost per page and Total Cost of Ownership is very competitive.

Best Use

Small to mid-size offices and workgroups, and enterprises, that are seeking a robust color MFP for both basic office applications as well as more advanced workflow applications.

Wirth Consulting - Office ©Head2Head Comparison

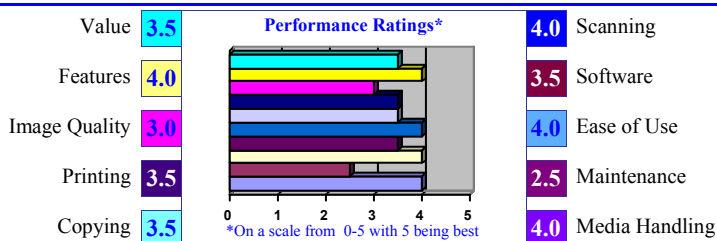
Make Sharp	Imaging Laser
Model MX-3100N	Functions Print/Copy/Scan/Fax
Base Price	\$13,195.00
Monthly Duty Cycle (pages)	90,000
BW/Color Print Speed (ppm)	26/26
Max Media Width (inches)	11.00
Classification A3 26-32 PPM Color MFPs	

Well Worth Consideration!



Background Information

The MX-3100N is based on the same platform as the MX-2600N, but among its differences are faster print speed (31/31 ppm versus 26/26 ppm). Sharp's MX series of office color MFPs with systems ranging in print speed from 27-70 ppm, with maximum paper capacities of 5,600 sheets. The MX-3100N also features Sharp's Open Systems Architecture (OSA) open-development platform for incorporating network applications, such as document-workflow applications, that can be accessed at the touch screen.



Total Ratings Score	Black Consumables Cost Per Page	Color Consumables Cost Per Page
35.5		

Total Cost of Ownership*	Black	Color	Mixed
1,000 pages per month			
2,000 pages per month			
3,000 pages per month			
4,000 pages per month			
5,000 pages per month			

*Base Price

Strengths	Limitations
<ul style="list-style-type: none"> •Supports Sharp's Open Systems Architecture (OSA) 3.0 open-development platform (uses XML, SOAP) for incorporating network applications, such as document-workflow applications, that can be accessed at the touch screen. •High-resolution color touch screen supports graphics, and Web-based HTML for integrating moving video; also supports integrating card-swiping for user authentication. •Standard network color scanning. With Image iND, users can scan documents up to 7 different destinations with just a touch of a key, including to USB memory devices, network folders, e-mail (supports LDAP), desktop, FTP, SMB, and to optional Super Group 3 fax and Internet fax. Preview scanned documents as thumbnail images on touch screen. •30-GB of memory is provided for document storage. With Send-to-Group, users can send a mixed group broadcast to e-mail, fax and Internet fax in a single operation. •Web-based network administration; Printer Administration Utility; Printer Status Monitor. •Security includes encrypted PDFs; Document Control; SSL; network authentication; job accounting (up to 1,000 users); IP/MAC address filtering; document administration; port filtering, etc. Optional Data Security Kit adds AES data encryption and hard-drive overwriting. •Optional Remote Front Panel (view and operate the touch screen/control panel from a PC). •Optional PostScript 3 and Microsoft Windows XPS drivers; optional stapler finisher, saddle-stitch booklet-maker; two document hole-punchers. •USB convenience port for print from and scan to USB memory devices. 	<p>Wirth Consulting has determined that this device does not have any notable limitations and should provide good functionality.</p>

Best Use
Small to mid-size offices and workgroups, and enterprises, that are seeking a robust color MFP for both basic office applications as well as more advanced workflow applications.

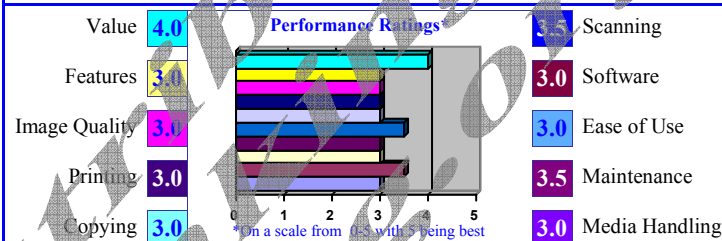
Wirth Consulting - Office ©Head2Head Comparison

Make Toshiba	Imaging Laser
Model e-STUDIO 281C	Functions Print/Copy/Scan/Fax
Base Price	\$10,495.00
Monthly Duty Cycle (pages)	100,000
BW/Color Print Speed (ppm)	28/11
Max Media Width (inches)	12.00
Classification A3 26-32 PPM Color MFPs	



Background Information

Toshiba's e-STUDIO281C is situated in the mid-range end of Toshiba color MFP line for the series (the e-STUDIO7030C is the fastest system in the series with its 75/70 print speed). Rated at up to 28 (B/W)/11 (color) ppm, the e-STUDIO281C features Toshiba's Net-Ready e-BRIDGE All-in-One Architecture, and network print and color scan is standard. Clearly designed for mainstream office applications, the e-STUDIO281C is considerably faster when printing in B/W. This along with color access controls and low cost per page made this device a particularly good value for offices and workgroups looking to minimize the cost of printing.



Total Ratings Score	Black Consumables Cost Per Page	Color Consumables Cost Per Page
32.0	\$0.00256	\$0.03226


Total Cost of Ownership*	Black	Color	Mixed
1,000 pages per month	\$10,648.33	\$12,430.33	\$11,129.91
2,000 pages per month	\$10,801.67	\$14,365.67	\$11,869.77
3,000 pages per month	\$10,955.00	\$16,301.00	\$12,609.63
4,000 pages per month	\$11,108.33	\$18,236.33	\$13,349.49
5,000 pages per month	\$11,261.67	\$20,171.67	\$14,089.35

*Base Price

Strengths	Limitations
<ul style="list-style-type: none"> •Low consumables' cost per page. •Print on up to 12"x 18" and on up to 110 lb. index via bypass tray (main paper sources accept up to 11"x17" and up to 28 lb. bond). •Administrators can limit color printing and copying by user and department. •Standard color network scanning includes can to file, e-mail, FTP; TWAIN driver and scan job templates provided. •Optional wireless LAN and Bluetooth wireless interfaces. •Tiltable touch screen/control panel for easier viewing and programming. •TopAccess network management for network Toshiba devices; e-mail notification for required service; e-mail or fax notification for page counts and preventive maintenance (PM). Restrict color output. •Security provisions include network authentication, hard-drive overwrite, and optional Scrambler Board for encrypting documents stored in hard-drive memory. •Optional single-position finisher; multi-position finisher, saddle-stitch finisher; document hole-puncher. •Optional eCopy Scan Station OP for automating scanning and distribution tasks. 	<ul style="list-style-type: none"> •The vendor of this device did not respond to requests to review this report. Consequently, because pricing and page yields were not confirmed, consumables' cost per page cannot be confirmed.

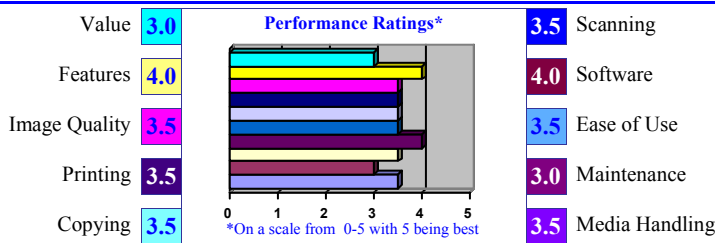
Best Use
Small to mid-size offices and workgroups, and enterprises, that are seeking a versatile color MFP for both advanced office applications as well as more advanced workflow applications.

Wirth Consulting - Office ©Head2Head Comparison

Make	Xerox	Imaging	LED-array
Model	WorkCentre 7428	Functions	Print/Copy/Scan/Fax
Base Price	\$11,599.00		
Monthly Duty Cycle (pages)	80,000		
BW/Color Print Speed (ppm)	28/28		
Max Media Width (inches)	12.00		
Classification	A3 26-32 PPM Color MFPs		

Background Information

The WorkCentre 7428 uses LED-array imaging technology, a toner-based imaging technology that is similar to laser technology. While color print/copy are standard, network connectivity and color scan are optional, as is Super Group 3 walkup fax, Internet fax and LAN fax. An optional controller from third-party Electronics for Imaging (EFI) also makes the system suitable for light production and more graphic-intensive applications with a 1.86 GHz CPU, 2,400 x 1,600 dpi, PANTONE color matching, Fiery ColorWise color management, Command Workstation, variable data printing (VDP) and Fiery RIP-and-Print utility for streamlining workflow.



Total Ratings Score	Black Consumables Cost Per Page	Color Consumables Cost Per Page
35.0	\$0.00687	\$0.04307

Total Cost of Ownership*	Black	Color	Mixed
1,000 pages per month	\$11,939.57	\$14,111.27	\$12,536.84
2,000 pages per month	\$12,280.14	\$16,623.54	\$13,590.67
3,000 pages per month	\$12,620.72	\$19,135.82	\$14,644.49
4,000 pages per month	\$13,248.09	\$21,934.89	\$15,982.25
5,000 pages per month	\$13,660.36	\$24,518.86	\$17,107.00

*Base Price

Strengths

- Supports Xerox's Extensible Interface Platform, a software platform with which developers can create server-based applications that can be configured from the MFP's touch screen, for example, for automating the editing, distribution and storage of scanned documents.
- Print on up to 140 lb. index via all paper sources and on up to 80 lb. cover via optional High Capacity Feeder. Print on up to 12"x 18" via bypass (up to 11" x 18" via main media sources).
- Adobe PostScript 3 print driver, Mobile Express driver (print without installing device drivers) and Global driver (print to Xerox and non-Xerox devices).
- Very capable CentreWare Web for network management. Limit color copying and printing.
- Optional color network scanning--scan to network server, e-mail (supports LDAP), folder, home, hard-drive memory, application (Electronic Document Management System/Repositories), MS Exchange 2000 Web Folders, Scan to PC Desktop software, SMARTsend, ScanFlowStore, Windows XP client SMB or FTP.
- Optional EFI controller with PANTONE color matching, color management, 1.86 GHz CPU, Fiery Tools, 10/100/1000Base-TX Ethernet network interface, Optional wireless Ethernet. •Scan documents and then convert into text-searchable Adobe PDFs for easy retrieval.
- Security provisions include IP address filtering, IPsec, SNMP3, network authentication, IPv6, Kerberos, 802.1x, data encryption, hard-drive encryption, optional secure watermark, optional Secure Access Unified ID System, etc. Optional USB convenience port.

Limitations

Wirth Consulting has determined that this device does not have any notable limitations and should provide good functionality.

Notes

- Consumables' pricing and yields shown are for OEM Xerox supply items when ordered online via the Web. Option prices are also when ordered line via the Web.
- 646 watts is in running mode.

Best Use

Small to mid-size offices and workgroups, and enterprises, that are seeking a versatile color MFP for both advanced office applications as well as more advanced workflow applications. When equipped with the optional Fiery controller, the system will be suitable for light production and graphic-arts applications. Relatively low color cost per page makes the system suitable for higher color volumes.