

Xerox Nuvera 100/120/144 MX  
Production System  
Xerox Nuvera 200/288 MX  
Perfecting Production System  
Overview



Xerox Nuvera® 100/120/144 MX  
Production System  
Xerox Nuvera® 200/288 MX  
Perfecting Production System  
Produce Consistent, Durable and  
Secure Transactional Documents



# Your jobs demand image quality that ensures instant character recognition

**The content of your checks and other transactional output will never be in doubt when you produce your critical applications with the Xerox Nuvera® 100/120/144 MX Production System or Xerox Nuvera® 200/288 MX Perfecting Production System.** With over 300 patents and industry-leading Magnetic Ink Character Recognition (MICR) technologies, the Xerox Nuvera MX delivers image quality that is instantly recognizable by reader/sorters and by your customers. These systems offer the flexibility, productivity and reliability you expect for all of your jobs.

## Why MICR?

MICR printing provides a more reliable reading process over OCR or bar codes. MICR encoded documents can be read through overprinting, pen and pencil marks, etc. With the increase in volumes of check and remittance information being processed, using MICR provides security, quality, cost and speed benefits for both encoding and recognition. Using MICR reduces processing errors and shortens the time to capturing revenue. With Xerox®, adding MICR is even more cost-effective, as the printing of checks and remittance documents, such as credit card statements, utility bills and loan payments, can be done in a single pass for both normal text and MICR fonts.

## The best read rates of any MICR lines

Your characters will maintain uniform signal strength plus the durability to last in high-speed readers/sorters. Expect read rates consistently exceeding 99.5 percent for your applications printed on the Xerox Nuvera MX—the highest read rates in the industry. Our use of industry-leading MICR technologies ensures more of your checks will be accepted, avoiding costly delays and fees. Your checks and negotiable documents will surpass the demanding quality criteria established by entities such as the American Bankers Association, American National Standards Institute, Canadian Payments Association, International Organization for Standardization and Association for Payment Clearing Services.

## Check Safeguards Your Auditors Will Appreciate

If you print MICR, you know that printing checks is like printing money and errors can be very costly. You need to protect your check stock from diversion and ensure the integrity of your check runs. Xerox offers two check integrity options, Media Log with Resource Security and Check Production Integrity.

- Media Log enables you to track paper stock from the time sheets are fed to their subsequent disposition. With the reports generated from Media Log, your auditors can account for every piece of paper, including valid output, purged and spoiled sheets and sheets delivered to the sample tray.



Xerox Nuvera® 100/120/144 MX Production System

- Resource Security, included with Media Log, supports password protection of resources required for your check printing, whether LCDS/Metacode, PostScript or PCL. These resources, which may include the E-13B font, logos and signatures, are saved in an encrypted form when not in use. Supervisor authorization is required to decrypt the resources, ensuring another point of control.
- Check Production Integrity offers all of this plus an added level of security with Print Validation, which is available in two forms:
  - MICR Print Validation
  - Barcode Print Validation

Check Production Integrity with MICR Print Validation enables you to confirm the total number of checks in a run and reports the MICR line content on every check delivered as valid output. If serial or warrant numbers are present and sequential, MICR Print Validation can ascertain if any number in a check sequence is missing, duplicated or out of order. Check Production Integrity with MICR Print Validation does not require any changes to your check jobs, so the solution can be used with any datastream including IPDS, PostScript, VIPP® and LCDS.

LCDS/Metacode customers who previously implemented their jobs using Xerox® Print Assurance and are interested in the speed and flexibility of Xerox Nuvera MX can choose Check Production Integrity with Barcode Print Validation. This version of Check Production Integrity preserves the financial controls which were put in place with the previous bar code integrity solution.

Media Log, Resource Security and Check Production Integrity...don't print your checks without them!

# Affordable MICR printing and finishing expands your applications and business

**Do more with MICR! MICR extends from checks to any form of document processing information.** From internal bank documents to remittance documents, such as a payment coupons and transactional applications, add MICR for more accurate, secure, fast processing. With the Xerox Nuvera® 100/120/144 MX Production System and Xerox Nuvera® 200/288 MX Perfecting Production System, it's one pass printing for reduced operational costs. And Xerox Nuvera can be customized to suit your business needs, accommodating a range of applications.

## Ideal for Your Transactional Applications

You can rely on the Xerox Nuvera MX to efficiently handle your demanding MICR transactional applications such as checks, financial forms and negotiable documents. And you can expand your enterprise capabilities with transactional promotional (TransPromo) documents that add value and impact while significantly enhancing your return on investment.

## Customize to Suit Your Business

The Xerox Nuvera MX is modular so you can choose the scanning, feeding, inserting and finishing options that best meet all of your needs.

- **Feeding options.** Air shuttle feed technology ensures you excellent paper handling. Reload-while-run capabilities increase your continuous productivity. Choose up to two Standard Sheet-feed Modules to suit your workflow.
- **Inserting options.** You can add value and impact to your output by inserting color covers, inserts or specialty media with our Post-print Insertion Module.

## Finishing Options

The Basic Finisher Module is designed for your production print environment. Dual Basic Finishers can be configured to not only deliver outstanding stack quality but enable the productivity benefits of unload-while-run.

In addition to check stock, you can choose from an expansive range of substrates, including coated stock up to 140 gsm, to match your application requirements and build your application capabilities.

Get maximum stacking capability with one Basic Finisher Module Plus (3,000 sheets) and two Xerox® DS3500 Stackers (7,000 sheets) for total stack and staple capacity of 10,000 sheets with unload-while-run capability. If stapling is not required you can add dual DS3500 Finishing Transport Modules. The DS3500 gives you all the benefits of an intelligent finisher, with jam offset and page level recovery, ensuring maximum reliability and uptime, as well as high capacity stacking. The DS3500 also gives you quick and easy access to a number of industry-leading third-party stacking and finishing options.

## Powerful Productivity and Image Processing

The powerful Xerox® FreeFlow® Print Server is integrated right into the Xerox Nuvera® 100/120/144 MX Production System and Xerox Nuvera 200/288 Perfecting Production System, providing you with excellent job control and time-saving efficiency in your transactional and TransPromo environments. You'll enjoy feature benefits such as:


- Efficient queue management
- Integration with a robust stock library
- Imposition software
- Sophisticated variable data capabilities
- The ability to handle a wide range of data streams including LCDS, PCL and IPDS

## Workflow Options

The Xerox FreeFlow Digital Workflow Collection is designed to take you easily through every stage of managing your jobs, from creation to final output. Integrating with the Xerox Nuvera MX, this suite of optional solutions enables you to enhance, automate and simplify your existing workflow, increasing productivity and making the most of your investment.

## Enhance Your Output With Excellent Image Quality

Many factors contribute to the long-lasting, consistently excellent image quality you will achieve with the Xerox Nuvera MX, including:



**Woodstone-Smith Imaging, Inc.**  
5200 Delaware Avenue • Buffalo, NY 14340  
716.555.1234

### INVOICE

Statement Date: May 15, 2009  
Page 1 of 2


Amount Due	<b>\$20.00</b>
Due Date	<b>June 18, 2009</b>

Insurance has paid their portion of this invoice. You are responsible for the balance. Please make payment in full by the date above.

Questions? Call 716.555.1234

Account Number	<b>1234 56 7890</b>
Patient Name	Jennifer Gallagher
Referring Doctor	Mary Johnson, MD

Service Details				
Date	Practitioner	Code	Description	Amount
04/06/09	Williams	74249	Contrast MRI U&LGI Tract L2	\$221.85
04/06/09	Williams	74250	Contrast MRI U&LGI Tract L3	\$221.85
04/06/09	Williams	74246	MRI of UGI Tract	\$821.33
04/06/09	Williams	74246	MRI of LGI Tract	\$821.33
04/09/09	Havensport	74246	Process INT. Digital Film Transport	\$25.85
04/14/09	Havensport	74246	Primary Internal Consultation	\$421.00
04/14/09	Havensport	89508	Internal Admin. Follow-up	\$50.00
Payment Details				
04/06/09		2010	Patient Co-Pay	-20.00
04/28/09		3399	Managed Care HMO Contractual Adj	-2086.36
04/28/09		3314	Blue Choice HMO Payment	-242.10
05/28/09		3314	Supplemental Aetta Ins. Payment	-210.25
<b>Balance</b>				<b>\$24.15</b>



#### DXA Scans Can Detect Osteoporosis

Osteoporosis is a disease of the skeleton whereby the bones become brittle. Osteoporosis can occur in both men and women of all ages and ethnicities. Until recently, a fracture was the only way to tell if a patient could have osteoporosis, but with the technology of bone densitometry testing (DXA scan), we can be proactive in detecting low bone mass.

**Talk to your doctor about whether a DXA scan is right for you or call us at 716-555-5678.**

▼ Detach here and mail payment coupon with your payment. ▼


Account Number	<b>1234 56 7890</b>
Patient Name	Jennifer Gallagher

Card Used	<input type="checkbox"/> VISA <input type="checkbox"/> MASTERCARD <input type="checkbox"/> DISCOVER <input type="checkbox"/> AMEX
Card Number	_____
Signature	_____
Exp. Date	____/____
<input type="checkbox"/> Check here if address or insurance information is incorrect and indicate change on reverse side.	

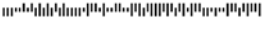
#### PAYMENT COUPON

Amount Due	<b>\$20.00</b>
Due Date	<b>June 18, 2009</b>
Amount Enclosed	\$ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

Make checks payable to:



**JENNIFER GALLAGHER**  
26 HILLSIDE ROAD  
WEBSTER NY 14580-1234



**WOODSTONE-SMITH IMAGING**  
PO BOX  
BUFFALO NY 14240-1234

⑆ 56 78 90 ⑆ 2 3 4 56 78 9⑆ ⑆ 0 ⑆ 2 3 4 56 78 90 ⑆

- **Trickle Charge Development.** You'll achieve longer-lasting, more consistent image quality because toner and developer are mixed together in the toner canister. You can also plan on fewer service calls because it eliminates the need for a technician to replace the developer—developer is replenished continuously.
- **Hybrid Jumping Development** places toner on the photoreceptor without any contact, extending the life of several critical imaging components and delivering truly outstanding image quality, with uniform halftones.

# Economical, secure digital MICR— high-quality printing in any quantity

**Print transactional and TransPromo applications as you need them. Digital MICR printing eliminates the need to run large quantities.** Advanced paper handling capabilities of the Xerox Nuvera® 100/120/144 MX Production System and Xerox Nuvera® 200/288 MX Perfecting Production System let you print both MICR and non MICR jobs in a single run. Coupled with advanced security for E-13B and CMC7 fonts, Xerox Nuvera MX delivers the all-around solution to your MICR printing needs.

## You Can Change Toner Less Often With Dual Toner Cartridges

Each of two large volume canisters yields up to 110,000 of the highest quality MICR prints. You'll change toner less frequently. And with change-while-run cartridge replacement, you'll enjoy more uptime.

## You'll Get Excellent Resolution in a Clean Environment

The Xerox Nuvera® MX offers you the highest monochrome resolution of any digital production printing system currently available.

- RIPs at 1200 x 1200 dots per inch (dpi)
- 4,800 x 600 dpi printing
- Halftone screens available at 85, 106, 125, 134 and 156 lines per inch (lpi) – ensure smooth grays, more realistic pictures and sharper details.

## TELER Registration Keeps Sheets in Place

You'll see superior image-to-sheet ( $\pm 0.65$  mm) and front-to-back ( $\pm 0.65$  mm) registration, which meets or exceeds general publishing standards. This is particularly important for your financial documents where placement of the MICR line is critical. Our TELER registration (Translating Electronic Registration) precisely controls the position of each sheet of paper according to the image on the photoreceptor, and the speed of each sheet traveling through the paper path. In this way, it ensures each sheet is in exactly the right position to receive the latent image.

## Paper Handling for Accuracy

MICR printing is one of the most quality conscious applications within the printing industry. It must meet strict security requirements for negotiable documents. MICR processing is not subjective—the quality of the printing is judged by a machine. To be effective, MICR must be exact. The Xerox Nuvera® 100/120/144 MX Production System and Xerox Nuvera® 200/288 MX Perfecting Production System have paper handling designed for the highly accurate registration required for precise placement of the MICR line to maximize readability during processing.



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## Reliably Productive For You

We offer these options to ensure you enjoy maximum uptime from your Xerox Nuvera 100/120/144 MX Production System and Xerox Nuvera 200/288 MX Perfecting Production System.

### Direct Communication to Service

Xerox Nuvera MX is an intelligent system that can connect to your network and report service issues as they happen. This information ultimately is sent to your Customer Service Engineer's (CSE) PDA device. Your CSE is made aware of your problem before arriving at your site. This means that they arrive prepared with the appropriate parts, reducing delays in production and maximizing your uptime.

### Xerox Nuvera Productivity Plus (XPP) Integrated Maintenance Program

Xerox Nuvera Productivity Plus (XPP) is an innovative, customer-focused maintenance program that makes it easy for you to diagnose and replace routine service items. A series of wizards provide step-by-step instructions to replace basic parts. It enables you to increase your productivity and print volumes, while effectively managing print quality—all while avoiding service intervention across every shift. Two program options are available— XPP Basic and XPP Advanced. You can choose which is best for you based on the level of participation that works for your business.

### Xerox® prInteract<sup>SM</sup> Remote Service Offerings

Remote service features including Automated Remote Monitoring and On Demand Machine Data Transfer available through a secure, online connection between Xerox engineering staff and your Xerox Nuvera MX. Using this connection, we can quickly respond to your service needs, enabling us to:

- Easily access equipment data to provide real-time recommendations and help optimize overall performance
- Automatically generate up-to-the-day accurate meter reads with MeterAssistant™

## Be Sure All of Your Transactional Applications Are Readable and Secure

The Xerox Nuvera® 100/120/144 MX Production System and Xerox Nuvera® 200/288 MX Perfecting Production System offer you outstanding MICR capabilities and top read rates, plus flexibility, productivity and reliability for all of your jobs. You'll achieve the image quality you need for instant recognition!

For more information on Xerox Nuvera MX, call toll-free 1-800-ASK-XEROX or visit us on the web at [www.xerox.com](http://www.xerox.com)

