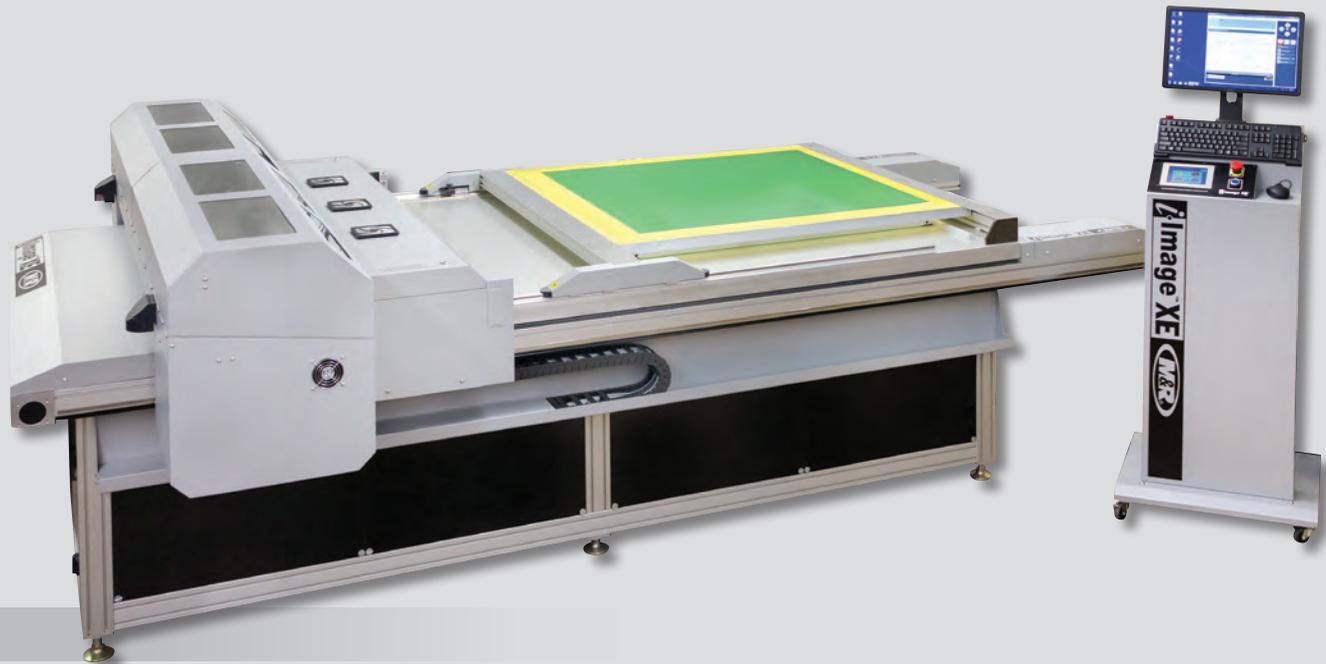# i·Image™ X & XE

CTS Imaging and Imaging-Exposure Systems

FEATURES

- **i-Image XE models can generate and expose full-size T-Shirt images in less than a minute**
- **i-Image X & XE can image screens up to 60" x 60"; i-Image XE exposes emulsion with a scanning UV LED light source using nearly 20,000 high-output UV LEDs**
- **The high density of M&R's UV LEDs ensures the quickest exposures and the most uniform coverage available in the screen printing industry**

i-Image XE is M&R's oversize version of i-Image STE, the world's first all-in-one computer-to-screen (CTS) imaging and UV LED exposure system (US Patent Pending. European Patent Application No. 14721111.4). It's ideal for imaging and exposing oversize screens for textile screen printing as well as for exposing and imaging multiple textile screens simultaneously. It's also suitable for some graphics applications. By combining CTS imaging and UV LED screen exposure in one machine, M&R has dramatically reduced the time and effort required to prepare images for screen printing. On the initial pass over the screen frame, i-Image XE uses specially-formulated water-based UV-blocking ink, advanced high-resolution CTS inkjet printer technology and three industrial printheads to quickly generate opaque images on emulsion-coated screens. On the return pass, the built-in high-output scanning UV LED light source exposes the emulsion, producing screens that can be taken directly to washout. CTS images are superior to traditional film positives, delivering greater detail and smoother halftone transitions. All i-Images eliminate the need for costly film positives, as well as the space and labor required to store and retrieve them. Because the image information is digital, it's easy to store and quick to retrieve.

i-Image XE's onboard UV LED exposure system streamlines workflow and increases productivity, delivering fast, superior screen exposures with exponentially lower energy costs. Not only do UV LEDs use far less energy,

they're only on during the exposure process. M&R's UV LEDs run cooler, save energy costs, reduce screen exposure time, and speed up production. And, unlike expensive metal-halide bulbs that require replacement every year or two, i-Image XE's UV LED light source can last for decades. The i-Image XE computer-to-screen imaging & exposure system includes computer, monitor, and M&R's proprietary software.

By providing complete control of print and exposure parameters, the software ensures high-quality screen images at production-level speed. It provides full image scaling and positioning, has 16-exposure presets for common applications, and can be user-customized for specific art types, various mesh counts, and types of emulsion. And the high density of M&R's high-output UV LEDs—nearly 20,000—ensures the quickest exposures and the most uniform coverage available to screen printers. Maximum screen size is 152 x 152 cm (60" x 60") and maximum image area is 132 x 132 cm (52" x 52"). Units are designed to fit through an 81 cm (32") doorway. M&R's i-Image XE all-in-one computer-to-screen (CTS) imaging and UV LED exposure system will revolutionize your screen room. Once you've experienced the simplicity, consistency, speed, and productivity of an i-Image XE, you won't be satisfied with anything less. M&R's i-Image X has all the imaging features and capabilities of the i-Image XE, but without exposure capability.

www.mrprint.com
store.mrprint.com

i·Image™ X & XE

STANDARD FEATURES

CERTIFICATION
- CE Certified: Built to specifications established by the European Committee for Standardization® (CE)
- UL Listed: Built to specifications established by Underwriters Laboratories® (UL)

COMPUTER-TO-SCREEN IMAGING
- Can be user-customized for specific art types, various mesh counts, and types of emulsion
- Can generate and expose a full-size image in less than a minute (i-Image XE)
- Digital workflow simplifies the imaging process
- Eliminates the need for costly film
- Improves image quality
- Produces exceptional screen-to-screen registration
- Promotes faster on-press setup and registration
- Provides complete control of print parameters
- Provides full image scaling and positioning
- Reduces processing steps
- Virtually eliminates pinhole touchup
- Workflow can be customized for specific customer needs

DESIGN & CONSTRUCTION
- Designed to fit through an 81 cm (32") doorway when disassembled
- Includes computer, monitor, and M&R's proprietary software
- Self-contained design speeds production by allowing placement in light-safe screen-coating rooms
- Ships fully assembled and ready to deploy
- Touchscreen panel with alphanumeric display

LIGHT SOURCE FOR SCREEN EXPOSURES (i-IMAGE XE)
- Combines CTS imaging and UV LED screen exposure in one machine
- Dramatically reduces exposure time
- Eliminates the need for a separate screen exposure unit
- Exposes emulsion with a scanning UV LED light source on the return pass

- Job Recall™ allows storage and recall of numerous screen exposure values
- The high density of M&R's high-output UV LEDs—nearly 20,000—ensures the quickest exposures and the most uniform coverage available
- UV LEDs use far less energy than metal halide lamps and are only on during the screen exposure process

WARRANTY, SERVICE AND SUPPORT
- 24-hour hotline is staffed 365 days a year
- Access to M&R's Training Center
- M&R OEM parts—including genuine M&R pallets & platens—and screen printing supplies are available online at store.mrprint.com
- One-year limited warranty

SPECIFICATIONS

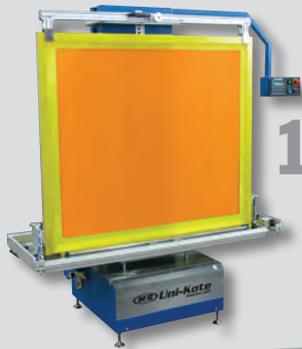|	i-Image X	i-Image XE
Electrical Requirements [1, 2]	208/230, 1 ph, 17 A, 50/60 Hz, 3.9 kW	208/230 V, 1 ph, 30 A, 50/60 Hz, 6.9 kW
Industrial Printheads	3	3
Maximum Image Area	132 x 132 cm (52" x 52")	132 x 132 cm (52" x 52")
Maximum Screen Frame Profile	7.5 (3")	7.5 (3")
Maximum Screen Frame Size	152 x 152 cm (60" x 60")	152 x 152 cm (60" x 60")
Overall Size	127 x 221 x 321 cm (50" x 87" x 126.5")	127 x 221 x 321 cm (50" x 87" x 126.5")
Overall Size: Control Unit (H x W x D)	132 x 62 x 62 cm (52" x 24.5" x 24.5")	132 x 62 x 62 cm (52" x 24.5" x 24.5")
Shipping Weight	1605 kg (3538 lb)	1605 kg (3538 lb)

[1] If incoming voltage differs from the voltage(s) listed in this brochure, calculate amperage accordingly. Other electrical configurations are available: Contact The M&R Companies for details.
[2] An uninterruptable power supply (UPS) should be used to protect electrical components

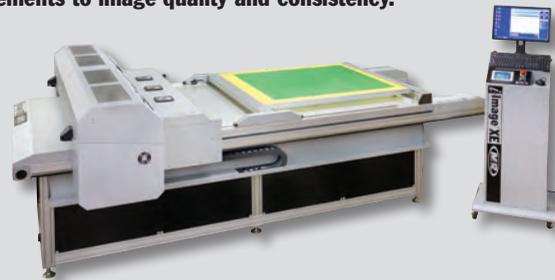*MADE IN AMERICA with US & Global Components*

THE DIGITAL SCREEN ROOM

Fast, high-quality screen printing starts with high-quality screens, and M&R's Digital Screen Room concept is dedicated to dramatically reducing screen-production time while making substantial improvements to image quality and consistency.

1 Coat Screens with Uni-Kote Automatic Screen Coating Machine

Uni-Kote provides a reliable, low-cost option for automating screen coating. The computerized control center, conveniently mounted at the side of the screen coating machine, makes programming simple. Uni-Kote's front and rear screen coaters can apply emulsion in tandem or independently. Maximum screen frame size is 147 x 132 x 4.5 cm (58" x 52" x 1.75") for Uni-Kote 5852.

2 Image & Expose Screens with i·Image XE Computer-to-Screen Imaging System

On the initial pass over the screen frame, i-Image XE uses specially-formulated water-based UV-blocking ink, advanced high-resolution CTS inkjet printer technology and three industrial printheads to quickly generate opaque images on emulsion-coated screens. On the return pass, the built-in high-output scanning UV LED light source exposes the emulsion, producing screens that can be taken directly to washout. This combination of imaging and exposure in one machine dramatically reduces the time and effort required to prepare images for screen printing.

3 Rinse Exposed Screens with Eco-Rinse Automatic Screen Rinsing System

M&R's Eco-Rinse automates the tedious process of rinsing exposed screens while ensuring consistency and reducing the chance of unintentionally blowing out exposed images. Manually-processed screens often require follow-up rinsing because of incomplete or inadequate processing due to operator fatigue, boredom, or inadequate training. Processing can also vary from one operator to the next. Those problems are eliminated with the consistent screen rinsing available with the Eco-Rinse automatic screen rinsing system. Eco-Rinse can accommodate one screen up to 140 x 114 x 3.8 cm (55" x 45" x 1.5") or two screens up to 66 x 114 x 3.8 cm (26" x 45" x 1.5").

The M&R Companies
M&R · NUARC · AMSCOMATIC

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