

Computer-to-Screen Imaging & Exposure System

FEATURES

- Processes image areas up to 51 x 53 cm (20" x 21") or 51 x 71 cm (20" x 28")
- Quickly creates and exposes images on emulsion-coated screens
- i-Image STE 3 can generate a full-size image in as little as 30 seconds

M&R's i-Image STE is the world's first all-in-one computer-to-screen (CTS) imaging and exposure system. 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 inward pass, i-Image STE uses specially-formulated water-based UV-blocking ink and advanced high-resolution CTS inkjet printer technology to quickly generate opaque images on emulsion-coated screens. On the outward pass, the built-in high output UV LED exposure system exposes imaged screens, producing finished screens that can be taken directly to washout. CTS images are superior to traditional film positives, delivering greater detail and smoother halftone transitions. i-Image STE eliminates 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.

The onboard exposure system streamlines workflow, increases productivity, and substantially reduces energy consumption. i-Image STE's UV LED exposure system delivers fast, superior curing with exponentially lower energy costs. Not only do LEDs use far less energy, they're only on during the exposure process. Since light from the LEDs is contained within the machine, i-Image STE can be located in screen rooms. i-Image STE also eliminates the need for a separate screen exposure unit, freeing up precious screen-room floor space. And, unlike expensive high-pressure metal-halide bulbs that require replacement every year or two, i-Image STE's UV LED light source can last up to 15 years.

The i-Image STE 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 20-exposure presets for common applications, and can be user-customized for specific art types, various mesh counts, and types of emulsion. Two i-Image STE models are available in three configurations: i-Image STE 1, with one industrial printhead capable of imaging up to 150 screens per 8-hour shift; i-Image STE 2, with two printheads for imaging up to 250 screens per shift; and i-Image STE 3, with three printheads for imaging up to 350 screens per shift. In fact, i-Image STE 3 can generate a full-size image in as little as 30 seconds (Note: some emulsions may extend the time required for the outward pass). i-Image STE 36 units process image areas up to 51 x 53 cm (20" x 21") and accept most screen frames up to 66 x 91 cm (26" x 36"). i-Image STE 43 units process image areas up to 51 x 71 cm (20" x 28") and accept most screen frames in sizes up to 66 x 109 cm (26" x 43"). All i-Image STE units are designed to fit through an 81 cm (32") doorway.

SPECIFICATIONS

	i-Image 36 STE 1	i-Image 36 STE 2	i-Image 36 STE 3	i-Image 43 STE 1	i-Image 43 STE 2	i-Image 43 STE 3
Electrical Requirements ^{1, 2, 3}	208/230 V, 1 ph, 7 A, 50/60 Hz, 1.21 kW	208/230 V, 1 ph, 7 A, 50/60 Hz, 1.21 kW	208/230 V, 1 ph, 7 A, 50/60 Hz, 1.21 kW	208/230 V, 1 ph, 7 A, 50/60 Hz, 1.21 kW	208/230 V, 1 ph, 7 A, 50/60 Hz, 1.21 kW	208/230 V, 1 ph, 7 A, 50/60 Hz, 1.21 kW
Industrial Printheads	1	2	3	1	2	3
Maximum Frame Profile	4.1 x 4.1 cm (1.63" x 1.63")	4.1 x 4.1 cm (1.63" x 1.63")	4.1 x 4.1 cm (1.63" x 1.63")	4.1 x 4.1 cm (1.63" x 1.63")	4.1 x 4.1 cm (1.63" x 1.63")	4.1 x 4.1 cm (1.63" x 1.63")
Maximum Screen Frame Size	66 x 91 cm (26" x 36")	66 x 91 cm (26" x 36")	66 x 91 cm (26" x 36")	66 x 109 cm (26" x 43")	66 x 109 cm (26" x 43")	66 x 109 cm (26" x 43")
Maximum Image Area	51 x 53 cm (20" x 21")	51 x 53 cm (20" x 21")	51 x 53 cm (20" x 21")	51 x 71 cm (20" x 28")	51 x 71 cm (20" x 28")	51 x 71 cm (20" x 28")
Minimum Screen Frame Size	30 x 46 cm (12" x 18")	30 x 46 cm (12" x 18")	30 x 46 cm (12" x 18")	30 x 46 cm (12" x 18")	30 x 46 cm (12" x 18")	30 x 46 cm (12" x 18")
Overall Size (H x W x D)	127 x 142 x 213 cm (50" x 56" x 84")	127 x 142 x 213 cm (50" x 56" x 84")	127 x 142 x 213 cm (50" x 56" x 84")	257 x 142 x 213 cm (50" x 56" x 101")	257 x 142 x 213 cm (50" x 56" x 101")	257 x 142 x 213 cm (50" x 56" x 101")
Screens per Shift ⁴	150	250	350	150	250	350
Shipping Weight	612 kg (1350 lb)	612 kg (1350 lb)	612 kg (1350 lb)	635 kg (1400 lb)	635 kg (1400 lb)	635 kg (1400 lb)

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MINNESOTA	800.328.6592	MISSOURI	800.233.3770	UTAH	800.497.6690
CALIFORNIA	800.824.2468	NEBRASKA	800.228.3839	WASHINGTON	800.426.4938
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