i·Image™ ST

Computer-to-Screen Imaging System

FEATURES

- **Fully electric design eliminates the need for pressurized air**
- **Processes image areas up to 51 x 53 cm (20" x 21") on screen-frames up to 66 x 91 cm (26"x 36")**
- **i-Image ST 3 can create a full-size image in as little as 30 seconds**

M&R's *i*-Image ST Computer-to-Screen Imaging System uses specially-formulated *i*-Pak water-based UV-blocking ink and advanced high-resolution inkjet technology to quickly generate opaque images on emulsion-coated screens. Computer-to-screen images are superior to traditional film positives, delivering greater detail and smoother halftone transitions. And since *i*-Image ST generates the image directly on the screen, there's no need for vacuum hold-down during the exposure process. This, coupled with the fact that light doesn't have to penetrate layers of film and glass, can reduce exposure time up to half. *i*-Image ST also 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. Since *i*-Image ST is electrically operated, there's no need to locate it near pneumatic lines.

The *i*-Image ST System includes computer, monitor, and M&R's proprietary RIP software. By providing complete control of print parameters, the RIP software ensures high-quality images at production-level speed. It provides full image scaling and positioning, has presets for common applications, and can be user-customized for specific art types and various mesh counts. Three *i*-Image ST models are available: *i*-Image ST 1, with one industrial printhead capable of processing up to 150 screens per 8-hour shift; *i*-Image ST 2, with two industrial printheads for processing up to 250 screens per shift; and *i*-Image ST 3, with three industrial printheads for processing up to 350 screens per shift. In fact, *i*-Image ST 3 can create a full-size image in as little as 30 seconds. All *i*-Image ST models process image areas up to 51 x 53 cm (20" x 21"), and accept most static and retensionable screen frames in sizes up to 66 x 91 cm (26" x 36"). And all *i*-Image STs are designed to fit through an 81 cm (32") doorway.

Because they reduce screen-processing steps, minimize screen handling, and produce greater image accuracy, *i*-Image ST models are able to deliver fast, accurate, and cost-effective screen imaging. Screens for multicolor jobs are quickly generated in perfect registration. Coupled with the appropriately-sized Tri-Loc pallet, which quickly and accurately registers the screens on the press, the entire process—from screen imaging to the first finished print—is dramatically shortened, with registration time reduced up to 95%. In fact, the combination of *i*-Image ST and Tri-Loc results in the fastest, most accurate way to generate and register screens. Ruggedly designed, affordably priced, and backed by the world's largest network of service and support, *i*-Image ST is the ideal addition to any screen-printing operation.

SPECIFICATIONS

	i-Image ST 1	i-Image ST 2	i-Image ST 3
Electrical Requirements [1, 2, 3]	208/230 V, 1 ph, 5 A, 50/60 Hz, 1.15 kW	208/230 V, 1 ph, 5 A, 50/60 Hz, 1.15 kW	208/230 V, 1 ph, 5 A, 50/60 Hz, 1.15 kW
Industrial Printheads	1	2	3
Maximum Frame Profile	4.1 x 4.1 cm (1.625" x 1.625")	4.1 x 4.1 cm (1.625" x 1.625")	4.1 x 4.1 cm (1.625" x 1.625")
Maximum Frame Size	66 x 91 cm (26" x 36")	66 x 91 cm (26" x 36")	66 x 91 cm (26" x 36")
Maximum Image Area	51 x 53 cm (20" x 21")	51 x 53 cm (20" x 21")	51 x 53 cm (20" x 21")
Overall Size (H x W x L)	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")
Screens per Shift [4]	150	250	350
Shipping Weight	590 kg (1300 lb)	590 kg (1300 lb)	590 kg (1300 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
[3] 110 V electrical configuration is optionally available
[4] Approximate number of screens the model is capable of printing in an 8-hour shift. Your results may vary.

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Exposure Options for CTS-Generated Screens

One of the major advantages of a computer-to-screen system is that the screens can be exposed without a vacuum glass. That means no vacuum time, faster exposure times, and the elimination of most pinholes. Here are three popular options for exposing those screens.

6K

NuArc's 6K exposure system, with its 6kW multi-spectrum metal-halide lamp, is ideal for simultaneously exposing multiple screens generated by CTS systems. Shelves or wall-hangers enable users to position numerous screens against a wall where they can be exposed by this freestanding unit. Complete details on NuArc's 6K system can be found on the M&R website.

MSP 3140 CTS

NuArc's MSP 3140 CTS is ideal for small shops that need to expose screens generated by CTS systems while retaining the ability to expose film with vacuum. MSP 3140 CTS, with its 1200-watt multi-spectrum metal-halide lamp, makes it possible to do both. The MSP 3140 CTS can simultaneously expose two 58 x 79 cm (23" x 31") screens or two 58 x 84 cm (23" x 33") screens generated by CTS systems. It can also expose a single computer-generated screen up to 91 x 117 cm (36" x 46") or a conventionally-generated screen requiring vacuum drawdown up to 79 x 102 cm (31" x 40"). Complete details on NuArc's MSP 3140 CTS can be found on the M&R website.

TRI-LIGHT CTS

NuArc's Tri-Light CTS, with its 6 kW multi-spectrum metal-halide lamp, is ideal for medium-to-large shops that need to expose screens generated by CTS systems while retaining the ability to also expose film with vacuum. Tri-Light CTS can simultaneously expose up to four 58 x 79 cm (23" x 31") screens generated by CTS systems. It can also expose a single computer-generated screen up to 145 x 160 cm (57" x 63") or a conventionally-generated screen requiring vacuum drawdown up to 132 x 152 cm (52" x 60"). Complete details on NuArc's Tri-Light CTS can be found on the M&R website.

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