

# TRI-LIGHT™ ST



## Multi-Spectrum Screen Exposure System



### FEATURES

- Maximum screen frame size  
132 x 152 cm (52" x 60")
- 6 kW shuttered multi-spectrum metal-halide lamp
- Designed for high-production applications

Tri-Light ST is a larger, shuttered-light version of NuArc's popular Tri-Light Exposure System. With its 132 x 152 cm (52" x 60") maximum screen frame size; fast, powerful light source; and exceptional repeatability, Tri-Light ST is perfect for high-volume operations. NuArc's computerized and programmable integrator/controller ensures precise vacuum duration and lamp output compensation. Tri-Light ST is also simple to operate. The entire exposure process—from vacuum drawdown through screen exposure and vacuum release—is accomplished with a single keystroke.

NuArc's unique manifold system ensures intimate contact by drawing vacuum evenly around the perimeter of the blanket frame. Exposures are powered by NuArc's multi-spectrum metal-halide System 631™ which idles at 1 kW and operates at user-selected settings of 6 kW, 3 kW and 1 kW. The 3 kW and 1 kW settings allow operators to slow

down exposures when necessary. They also extend Tri-Light's ability to adapt to future emulsion formulas. Tri-Light ST also features NuArc's exclusive Proportional Temperature Control (PTC). PTC continuously monitors lamp temperature, turning the cooling fans on and off to keep the lamp at the optimum operating temperature. Tri-Light ST can be located in areas housing unexposed screens because the light source and vacuum frame are enclosed, and the exposure lamp can't be turned on while the blanket frame is open.

All equipment from The M&R Companies is built with M&R's unsurpassed attention to detail and commitment to quality, durability, innovation, and design excellence, and is backed by M&R's unparalleled 24-hour access to service, support, and premium parts. It's no wonder M&R is the first name in screen printing equipment.

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# TRI-LIGHT™ ST

## STANDARD FEATURES

### BLANKET & VACUUM

- Advanced design eliminates the need for a vacuum hose connection to the blanket
- Exceptionally flexible and resilient material ensures intimate contact and blanket longevity
- Gas shocks simplify blanket frame opening and closing
- Oil-free pump is fast, quiet, and efficient
- Unique manifold system ensures intimate contact by drawing vacuum evenly around the perimeter of the blanket frame
- Vacuum release system (U.S. Patent No. 5,481,333) instantly releases vacuum

### CERTIFICATION

- CE & UL compliant: Built to specifications established by the European Committee for Standardization® (CE) and Underwriters Laboratories® (UL)

### CONTROLLER/INTEGRATOR

- Computer controlled and fully programmable
- Computer-controlled system monitors lamp life
- Computer-generated diagnostics speed problem identification and resolution
- Fully automatic operation
- Job Recall™ allows storage and recall of numerous vacuum and exposure values
- Light integrator ensures precise exposures
- Touch-screen panel with alphanumeric display

### DESIGN & CONSTRUCTION

- 104 cm (41") working height for no-step access
- 9.5 mm (3/8") thick optically-clear plate glass
- Can be disassembled to fit through a 76 cm (30") wide opening
- Frame latches are made with state-of-the-art materials for durability, longevity, and operator comfort
- Fully-enclosed, heavy-duty all steel cabinet
- Light-Loc™ automatically turns off the light source if the blanket frame is opened
- Removable covers provide easy access to components to clean or replace any serviceable item
- Self-contained design speeds production by allowing placement in darkrooms
- Ships fully assembled and ready to deploy
- Square tubular steel welded frame

### EXPOSURE AREA

- 132 x 152 cm (52" x 60") maximum screen frame size
- Compatible with the Tri-Loc® & Double Tri-Loc® Rapid Registration Systems from M&R

### LIGHT SOURCE

- Exposes all emulsions: direct, capillary, and indirect
- Lamp drawer makes lamp easy to access and change
- Lamp idles at 1 kW when not exposing screens
- Point-light source provides maximum collimation and optimum coverage to hold fine lines and dots
- Proportional Temperature Control (PTC) turns cooling fans on and off to keep the lamp at optimum operating temperature
- System 631 shuttered multi-spectrum metal-halide lamp produces fast, efficient user-selected exposures of 6 kW, 3 kW or 1 kW

### WARRANTY, SERVICE & SUPPORT

- 24-hour hotline is staffed 365 days a year
- Access to M&R's Training Center
- One-year limited warranty excluding blanket, glass, and lamps

## OPTIONS

### INSPECTION LIGHT

- Allows the operator to check for alignment, dust, and pinholes before exposing screens
- Yellow safelight turns off automatically when the blanket frame is closed

### REPLACEMENT LAMP

- 6 kW multi-spectrum metal-halide lamp: Part Number MH153

## SPECIFICATIONS

	Tri-Light ST
Electrical Requirements <sup>1</sup>	208/230 V, 1 ph, 32/29 A, 50 Hz, 7 kW 208/230 V, 1 ph, 30/28 A, 60 Hz, 6 kW
Maximum Screen Frame Size	132 x 152 cm (52" x 60")
Overall Size (H x W x D)	109 x 188 x 180 cm (43" x 75" x 71")
Shipping Weight	619 kg (1365 lb)
Vacuum Frame Size	152 x 174 cm (60" x 68.5")
Wattage	6 kW

<sup>1</sup> 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



**The M&R Companies**  
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**The M&R Companies 1N372 Main Street, Glen Ellyn, Illinois 60137-3576 USA**

**USA: 800-736-6431 / 630-858-6101 / Fax: 630-858-6134 • Outside USA: +1-847-967-4461 / Fax: +1-847-967-0417**

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