

# MSP™ 3140 CTS

## Computer-to-Screen Exposure System



### FEATURES

- Produces exceptional results on both conventional and computer-generated screens
- The logical choice for those using both screen types—and for conventional screen users planning for the future
- Maximum screen frame size using vacuum  
79 x 102 cm (31" x 40")
- Maximum screen frame size using CTS rack  
91 x 117 cm (36" x 46")

MSP 3140 CTS is the dual-purpose version of NuArc's popular MSP 3140 screen exposure system. It produces the same exceptional results on conventional screens, but it also exposes screens that have been generated by CTS computer-to-screen imaging systems, making it the logical choice for those using both screen types—and for conventional screen printers planning for the future. MSP 3140 CTS is also simple to operate. The entire screen exposure process—from vacuum drawdown (on conventional screens) through screen exposure and vacuum release—is accomplished with a single keystroke.

MSP 3140 CTS has two methods of exposing screens. Two outer latches provide access to a conventional glass-and-vacuum blanket capable of handling screens up to 79 x 102 cm (31" x 40"). A center latch bypasses the glass and vacuum in favor of an adjustable CTS rack system for exposing computer-generated screens directly to

the light. The rack will handle a maximum screen frame size of 91 x 117 cm (36" x 46"), and will accommodate two 58 x 79 cm (23" x 31") screen frames simultaneously. The separation provided by the rack system eliminates the smearing and distortion that can result from screen-to-glass contact. On conventional screens, NuArc's unique manifold system ensures intimate contact by drawing vacuum evenly around the perimeter of the blanket frame.

NuArc's computerized and programmable integrator/controller ensures precise vacuum duration and lamp output compensation. Exposures are powered by NuArc's 1200-watt multi-spectrum metal-halide lamp, which idles at 600 watts and exposes at 1200 watts. MSP 3140 CTS 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.

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# MSP™ 3140 CTS

## 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)

### COMPUTER-TO-SCREEN (CTS) FEATURE

- Elimination of blanket drawdown produces faster CTS exposures
- Exposes screens that have been generated by a computer-to-screen (CTS) system
- Racks are adjustable to accommodate different size screens
- Separates the screen frame from the blanket to prevent smearing and distortion

### CONTROLLER/INTEGRATOR

- Computer controlled and fully programmable
- 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

- 103 cm (40.5") working height for no-step access
- 9.5 mm (3/8") thick optically-clear plate glass
- Frame latches are made with state-of-the-art material 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

- 79 x 102 cm (31"x 40") maximum screen frame size when using the vacuum with conventional screens
- 91 x 117 cm (36" x 46") maximum screen frame size for rack-mounted CTS-generated screens (the rack will also accommodate two 58 x 79 cm (23" x 31") screen frames simultaneously)
- Compatible with the Tri-Loc® Rapid Registration System from M&R

### LIGHT SOURCE

- 1200-watt multi-spectrum metal-halide shuttered light source
- Exposes all emulsions: direct, capillary, and indirect
- Lamp drawer makes lamp easy to access and change
- Point-light source provides maximum collimation and optimum coverage to hold fine lines and dots

### 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 excluding blanket, glass, and screen exposure lamps

## OPTIONS

### INSPECTION LIGHT

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

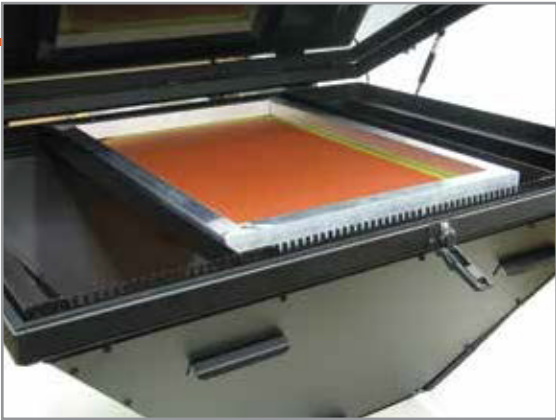
### REPLACEMENT LAMP

- 1200-watt multi-spectrum metal-halide lamp: Part Number PD41

## SPECIFICATIONS

	MSP 3140 CTS
Electrical Requirements <sup>1</sup>	110 V, 1 ph, 18 A, 60 Hz, 2 kW 208/230 V, 1 ph, 7.4/5.7 A, 50 Hz, 1.31 kW
Maximum Screen Frame Size (CTS Rack)	91 x 117 cm (36" x 46")
Maximum Screen Frame Size (Vacuum Blanket)	79 x 102 cm (31" x 40")
Overall Size (H x W x D)	105 x 130 x 119 cm (41.5" x 51" x 47")
Shipping Weight	308 kg (680 lb)
Vacuum Frame Size	94 x 117 cm (37" x 46")
Wattage	1200 watts

<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



A rack mount beneath the glass allows cts-generated screens to be exposed directly, avoiding smearing and distortion that can occur when screens are placed directly on glass.



**The M&R Companies**  
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