

Scanning UV LED Screen Exposure System



FEATURES

- **Maximum screen frame size 66 x 109 cm (26" x 43")**
- **NuArc's space-saving system delivers fast, accurate UV LED exposures on CTS-generated screens**
- **The screen-exposure LEDs used in D-Scan carry a limited lifetime warranty against failure in normal use**

D-Scan is NuArc's revolutionary scanning UV LED screen exposure system for images generated by computer-to-screen (CTS) systems (US Patent Pending, European Patent Application No. 14721111.4). Users simply snap a CTS-generated screen frame into D-Scan's vertical screen mounting system, select the appropriate settings, and press start to expose the emulsion by sending M&R's ExpoScan™ high-output UV LED light source scanning across the screen. 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, D-Scan's UV LED light source can last for decades. In fact, M&R is so confident in the longevity of D-Scan's screen-exposure LEDs that it backs them with a limited lifetime warranty against failure in normal use. D-Scan also features M&R's Job Recall™, which allows operators to name and save screen exposure settings. Operators can later recall those specific mesh/emulsion parameters rather than reentering the settings.

D-Scan exposes direct, capillary, and indirect emulsions, and its light bar speed controller ensures highly accurate screen exposures and fast exposure times on screen frames up to 66 x 109 cm (26" x 43"). D-Scan UV LED screen exposure units can be located in areas housing

unexposed screens because the UV LED light source is enclosed. D-Scan can be wall mounted or can function as a standalone unit with the optional floor stand. With its convenient and economical approach to direct screen exposure, D-Scan is perfect for any shop that employs computer-to-screen (CTS) imaging technology (since D-Scan is designed to work in conjunction with screens that have been imaged on CTS systems and since it does not utilize vacuum or glass, it will not work properly with conventional film positives).

M&R is the world's largest manufacturer of screen printing equipment, and the online M&R Store features a wide variety of genuine M&R OEM parts and screen printing supplies. The NuArc line includes UV LED exposure systems, CTS computer-to-screen imaging systems with built-in UV LED exposure capability, exposure units for CTS and conventionally generated screens, lithographic imaging systems, and freestanding vacuum frames. 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.

D-SCAN™

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)

DESIGN & CONSTRUCTION

- Built of heavy-duty steel and premium components
- LED timer with digital readout ensures accurate screen exposure times
- Self-contained design speeds production by allowing placement in light-safe screen-coating rooms

LIGHT SOURCE FOR SCREEN EXPOSURES

- Dramatically reduces exposure time
- Emulsion is exposed by M&R's ExpoScan™ high-output scanning UV LED light bar (US Patent Pending, European Patent Application No. 1472111.4)
- Job Recall™ allows storage and recall of numerous screen exposure values
- UV LEDs run cooler, reduce screen exposure time, and speed up production
- UV LEDs use far less energy than metal halide lamps and are only on during the screen exposure process

WARRANTY, SERVICE & 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
- The screen-exposure LEDs used in this equipment carry a limited lifetime warranty against failure in normal use

OPTIONS

FLOOR STAND

- Turns D-Scan into a freestanding UV LED screen exposure system

SPECIFICATIONS

	D-Scan
Electrical Requirements ¹	208/230 V, 1 ph, 1.5 A, 50/60 Hz, .33 kW
Maximum Screen Frame Size	66 x 109 cm (26" x 43")
Minimum Screen Frame Size	30 x 46 cm (12" x 18")
Overall Size with Stand (H x W x D)	211 x 138 x 61 cm (83" x 54" x 24")
Overall Size (H x W x D)	188 x 103 x 20 cm (74" x 40" x 8")
Shipping Weight ²	186 kg (410 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 With stand

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. NuArc's D-Scan is an integral part of M&R's Digital Screen Room, delivering fast UV LED exposures on CTS-generated screens. And it's an ideal companion for M&R's i-Image ST Computer-to-Screen Imaging System.



Uni-Kote

provides a reliable, low-cost option for automating screen coating. Front and rear screen coaters can apply emulsion in tandem or independently, allowing operators to coat each side of the screen separately, both sides simultaneously, or just one side. M&R's Job Recall™ allows users to save up to five screen coating jobs for added convenience and quick changeover.



i-Image ST

quickly generates opaque images on emulsion-coated screens. Because it reduces screen-processing steps, minimizes screen handling, and produces greater image accuracy, i-Image ST is able to deliver fast, accurate, and cost-effective screen imaging. In fact, i-Image ST 3 can create a full-size image in as little as 30 seconds. Screens for multicolor jobs are quickly generated in perfect registration.



Eco-Rinse

automates the tedious process of rinsing exposed screens while ensuring consistency and reducing the chance of blowing out exposed images. Balanced pressure from sprayers on both sides of the screen extends screen life. Since Eco-Rinse processes screens so quickly, per-screen labor costs can be cut by up to half. Eco-Rinse also reduces operating costs by recycling water used in the wash cycle, further lowering per-screen water usage.



The M&R Companies
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