

SPYDER

LTSTOWER



EXILE
TECHNOLOGIES

DIGITAL WORKFLOW WITHOUT FILM

EXILE's SPYDER LTS Tower laser-to-screen imaging system modernizes screen production by eliminating the need for negative film. Its innovative space-saving vertical design maximizes valuable production floor space while delivering the same high-resolution imaging performance and fully digital workflow as the SPYDER LTS. By reducing material costs, simplifying pre-press operations, and improving file security through direct digital image transfer, the SPYDER LTS Tower helps printers increase productivity without increasing their facility footprint.

FASTER, SIMPLER SCREEN PRODUCTION

The SPYDER LTS Tower replaces multiple manual pre-press steps with an efficient digital imaging process that improves both quality and productivity. By eliminating film handling, registration, and associated variables, printers benefit from faster turnaround times, improved process control, fewer production errors, and reduced remakes. The result is a more reliable workflow that gets jobs to press faster.

SPECIAL FEATURES

- Space-Saving Vertical Design
- Film-Free Digital Workflow
- Texas Instruments DLP® DMD Imaging
- Up to 25,400 DPI Resolution
- Supports 100–200 LPI Screening
- ±300-Micron Optical Depth of Focus
- Real-Time Automatic Focus
- Uniform Edge-to-Edge Exposure
- High-Power Laser Technology
- Compatible with Standard Emulsions
- Faster Press Setup and Improved Registration

HIGH-RESOLUTION DMD IMAGING

At the heart of the SPYDER LTS Tower is the latest Texas Instruments DLP® Digital Micromirror Device (DMD) imaging technology. With millions of precision-controlled micromirrors, the system generates exceptionally sharp digital images with superior edge definition, accurate dot reproduction, and outstanding detail.

Unlike earlier direct laser technologies, the latest generation DMD delivers higher pixel density for cleaner imaging, wider tonal range, and improved halftone reproduction. Imaging resolutions up to 25,400 DPI support demanding graphics applications while maintaining exceptional image fidelity throughout production.

PRECISION REGISTRATION AND SUPERIOR PRINT QUALITY

Supporting screen rulings from 100 to 200 LPI, the SPYDER LTS Tower produces crisp fine lines, smooth gradients, and highly accurate halftones. Precise image placement improves screen-to-screen registration, reducing press setup time while helping operators achieve faster color matching and more consistent print quality.

ADVANCED OPTICAL SYSTEM WITH AUTOMATIC FOCUS

A uniquely engineered optical system with a ± 300 -micron depth of focus provides consistent exposure quality across the entire imaging area. This generous depth of focus helps maintain sharp image reproduction even when minor variations exist in screen flatness or frame positioning.

The integrated real-time automatic focus system continuously compensates for changes in focal distance throughout the exposure process, ensuring uniform imaging from edge to edge without image seams. The result is repeatable screen quality, reduced setup variability, and greater confidence on every production run.

HIGH-POWER LASER PERFORMANCE

The SPYDER LTS Tower utilizes high-output laser technology designed to expose a wide range of emulsion types, including traditional low-sensitivity emulsions and high EOM (Emulsion Over Mesh) applications. This flexibility allows printers to continue using their preferred emulsions without requiring specialized CTS formulations, helping reduce consumable costs while maintaining outstanding exposure performance.

Whether producing fine-detail graphics, process printing, or heavy ink deposit applications, the SPYDER LTS Tower delivers the power, consistency, and versatility required for today's demanding screen printing environments.

SPYDER LTS TOWER SPECIFICATIONS

Model	SPYDER LTS1213	SPYDER LTS1520	SPYDER LTS2030
Max. Frame Size	1200 x 1300 mm (47.24 x 51.18 in)	1500 x 2000 mm (59.05 x 78.74 in)	2000 x 3000 mm (78.74 x 118.11 in)
Min. Frame Size	400 x 400 mm (15.75 x 15.75 in)	400 x 400 mm (15.75 x 15.75 in)	400 x 400 mm (15.75 x 15.75 in)
Max. Image Size	1100 x 1250 mm (43.31 x 49.21 in)	1400 x 1900 mm (55.12 x 74.80 in)	1900 x 2900 mm (74.80 x 114.17 in)
Frame Thickness	20 mm – 50 mm		
Laser Spot Size	28 µm (optional: 10 µm and 20 µm)		
Repeatability	5 µm		
Laser Type	UV LD 405 nm		
Laser Power (mass production)	22 W, laser current setting 240 mA		
Laser Power (limit)	33 W, laser current setting 330 mA		
Imaging Unit	TI DLP technology DMD		
Emulsion Over Mesh (EOM)	6 – 400 µm (not including mesh thickness)		
Imaging Time	180 – 240 s/m ² (testing with 350 yellow mesh, SBQ emulsion)		
File Resolution	1270 DPI & 2540 DPI		
Screening	133 LPI		
Mode of Focus	Automatic Focus, depth of focus 300 µm		
Supporting File	1-bit TIFF, Gerber274/X, DXF		
Equipment Size	2000 x 1200 x 2250 mm (78.74 x 47.24 x 88.58 in)	2300 x 1200 x 2550 mm (90.55 x 47.24 x 100.39 in)	2800 x 1200 x 3500 mm (110.24 x 47.24 x 137.80 in)
Net Weight	1500 kg (3307 lbs)	1800 kg (3968 lbs)	2200 kg (4850 lbs)
Power	Single-phase 220 V, 50/60 Hz, avg. power consumption: 4 kW (must be equipped with a purified AC voltage stabilizer of ≥ 5 kW); compressed air: 1L/min		
Optional	High-precision industrial camera for alignment (intelligent auto-scale), air suction table, software one-click imposition		



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