

SPYDER LTS



SPYDER LTS PLUS

SPYDER LTS MINI

EXILE
TECHNOLOGIES

EXILE's SPYDER LTS brings the speed, precision, and efficiency of a fully digital workflow directly to the screen room. By eliminating the need for film, the SPYDER LTS reduces material costs, streamlines production, and improves file security through digital image transfer. This modern approach simplifies pre-press operations while helping shops achieve faster turnaround times and greater consistency.

Designed for screen printers seeking reliable, high-quality imaging, the SPYDER LTS delivers accurate screen exposure with exceptional detail reproduction. The fully digital workflow reduces manual steps, minimizes errors, and creates a more efficient production environment from artwork preparation through press setup.

SPECIAL FEATURES

- Film-Free Digital Workflow
- Faster Screen Production
- Reduced Labor Costs
- Improved Process Reliability
- Enhanced Image Quality
- High Resolution Imaging
- Consistent Screen Exposure
- Automatic Focus System
- Faster Press Setup
- Improved Print Consistency

ADVANCED DIGITAL IMAGING TECHNOLOGY

At the heart of the SPYDER LTS is advanced digital micromirror device (DMD) technology that produces sharp, high-resolution images directly onto the screen. Utilizing the latest generation imaging technology, the system delivers exceptional detail reproduction, crisp halftones, and precise image placement that surpass traditional film-based processes.

The SPYDER LTS produces outstanding tonal range and image clarity, making it ideal for detailed graphics, fine text, and demanding screen printing applications. Accurate image registration helps reduce setup times on press while improving color consistency throughout production.

CONSISTENT QUALITY ACROSS EVERY SCREEN

The SPYDER LTS features an advanced optical system with automatic focus capabilities designed to maintain consistent exposure quality across the entire screen. By continuously compensating for variations in screen and frame positioning, the system delivers uniform image reproduction from edge to edge.

This precision helps reduce remakes, improve production reliability, and ensure repeatable results from screen to screen.

POWERFUL EXPOSURE PERFORMANCE

Engineered with high-output laser technology, the SPYDER LTS is compatible with a wide range of emulsion types and coating thicknesses. The powerful exposure system provides the flexibility to work with existing screen-making materials while maintaining fast production speeds and exceptional image quality.

The result is a dependable, cost-effective solution that helps screen printers improve productivity, reduce consumable costs, and achieve consistently superior results.

SPYDER LTS SPECIFICATIONS

Model	SPYDER LTS Mini	SPYDER LTS Plus
Max. Frame Size (mm)	600 x 800 (23.62 x 31.50 in)	1000 x 1000 (39.37 x 39.37 in)
Min. Frame Size (mm)	400 x 400 (15.7 x 15.7 in)	400 x 400 (15.7 x 15.7 in)
Max. Image Size (mm)	500 x 700 (19.7 x 27.6 in)	900 x 900 (35.4 x 35.4 in)
Frame Thickness	20 mm – 45 mm (0.8 – 1.8 in)	20 mm – 45 mm (0.8 – 1.8 in)
Laser Spot Size	28 µm (10 µm and 20 µm as optional)	28 µm (10 µm and 20 µm as optional)
Repeatability	5 µm	5 µm
Laser Type	UV LD 405 nm	UV LD 405 nm
Laser Power (mass production)	22 W, laser current setting 240 mA	22 W, laser current setting 240 mA
Laser Power (limit)	33 W, laser current setting 330 mA	33 W, laser current setting 330 mA
Imaging Unit	TI DLP technology DMD	TI DLP technology DMD
Emulsion Over Mesh (EOM)	6 – 400 µm (not including mesh thickness)	6 – 400 µm (not including mesh thickness)
Imaging Time	120 – 180 s/m ² (testing with 350 yellow mesh, SBQ emulsion)	120 – 180 s/m ² (testing with 350 yellow mesh, SBQ emulsion)
File Resolution	2540 DPI	2540 DPI
Screening	133 LPI	133 LPI
Mode of Focus	Automatic Focus, depth of focus 300 µm	Automatic Focus, depth of focus 300 µm
Supporting File	1 bit TIFF, Gerber 274D/X, DXF	1 bit TIFF, Gerber 274D/X, DXF
Equipment Size	1550 mm x 1500 mm x 1650 mm (61.0 x 59.1 x 65.0 in)	1850 mm x 1600 mm x 1650 mm (72.8 x 63.0 x 65.0 in)
Net Weight	1200 kg (2,646 lb)	1500 kg (3,307 lb)
Power	Single phase 220 V, 50/60 Hz, 4 kW, compressed air 1 L/min	Single phase 220 V, 50/60 Hz, 4 kW, compressed air 1 L/min
Optional	High-precision industrial camera for alignment (intelligent auto scale), air suction table, and software one-click imposition	High-precision industrial camera for alignment (intelligent auto scale), air suction table, and software one-click imposition



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