



Latest generation
computer-to-screen &
computer-to-plate
systems

Phoenix DLES *ECO*

Direct Laser Exposing System



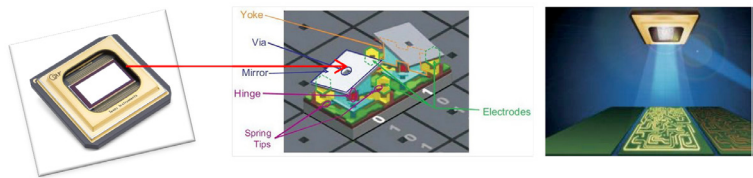
Phoenix DLES

The Phoenix DLES UV laser direct imaging system can be used to produce high-quality printing plates/screens for almost all printing processes.

The unique Japanese long-life UV laser with high-resolution DMD chip, 4° exposure technology, and integrated auto-predictive autofocus guarantees reproducible quality with reliable machine uptime, especially in the production of UV-sensitive Printing plates with maximum resolution.

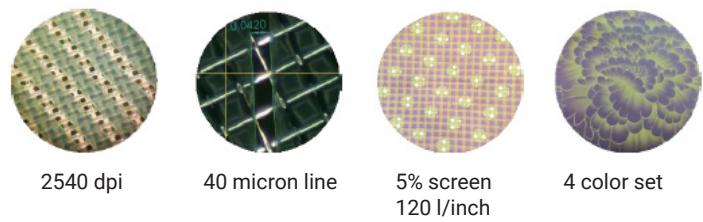
Digital imaging technology

Digital images are generated using a DMD (Digital Micro-Mirror Device), which has more than 2 million micrometer-sized mirrors that produce clear and sharp square dots. This latest digital imaging system has become the new standard in the printing industry.



High resolution

An optical resolution of 1270 dpi enables quick and easy creation of high-quality 133 LPI screens and screen dots, while an optical resolution of 2540 dpi enables high-resolution curved lines and perfect FM screen dots.



PDF vector RIP algorithm 12,700 dpi (optional)

The advanced PDF segmentation algorithm enables high-quality PDF files at 12,700 dpi. This method effectively avoids the problem of jagged lines that can occur when converting vector files, resulting in improved accuracy and smoother, more coherent images. It meets the high quality standards of precision printing industries, streamlines the file conversion process, and increases production efficiency.



the ECO variants

Specification Model*	DLES0608 ECO		DLES1010 ECO
Application	Textiles, decals, graphics, packaging, PCBs, labels, decoration, automotive, glass, etc.		
Maximum screen size	600 x 800 mm		1000 x 1000 mm
Maximum exposure size	500 x 700 mm		900 x 900 mm
Frame thickness	25 - 40 mm (custom designs are possible)		
Technology	DMD DLP -technology		
Emulsion thickness (EOM)	Emulsion 1 µm - 500 µm		
Exposure time	120 - 240 s/qm 120-34Y fabric / 1.270 dpi		
Resolution	1270 dpi / 2540 dpi		
Screen	150 LPI – 2540 dpi		
Focus system	Automatic focusing		
File format	1_bit tiff, Gerber		
Laser type	UV laser, wavelength 405 nm		
Laser power	405 nm - 20 W / 25 W		
Conditions	Yellow light space, temperature 22± 2° C, 40 - 70 % relative humidity (no condensation)		
Power	Single-phase 220 V, 50/60 Hz, 4 kW, compressed air: 0.5 MPa Simple		

Other machine sizes available, e.g. DLES1213 ECO



DROP by Hans Lüscher - Switzerland.

We would like to introduce ourselves as an innovative partner in digital prepress.

Phoenix DLES offers the latest digital technologies for the printing industry.

Our service

Service

Our sales and service teams are known for their professionalism. Together with selected top engineers, we work to solve problems and malfunctions in the service process and maximize the value of the devices.

405 nm laser

The innovative, coupled 405 nm laser exposure system is designed to increase laser power from 30% to 50% of conventional laser power.

Stable platform

The Hiwin SP-class guide rail, linear motor, and steel base ensure the stability of our devices.

Independent software system

Independent exposure system that can be customized with the required functions.



Drop digital Printing

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