



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

# Phoenix DLES *ECO*

Direct Laser Exposing System



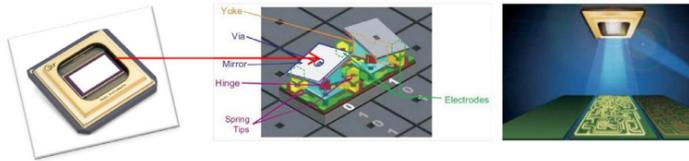
## Phoenix DLES

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.

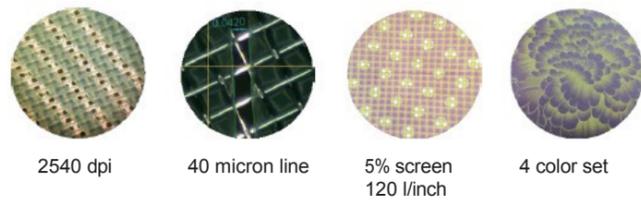
### Digital imaging technology

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
<b>Application</b>	Textiles, decals, graphics, packaging, PCBs, labels, decoration, automotive, glass, etc.	
<b>Maximum screen size</b>	600 x 800 mm	1000 x 1000 mm
<b>Maximum exposure size</b>	500 x 700 mm	900 x 900 mm
<b>Frame thickness</b>	25 - 40 mm (custom designs are possible)	
<b>Technology</b>	DMD DLP technology	
<b>Emulsion thickness (EOM)</b>	Emulsion 1 µm - 500 µm	
<b>Exposure time</b>	120 - 240 s/sqm 120-34Y fabric / 1,270 dpi	
<b>Resolution</b>	1270 dpi / 2540 dpi	
<b>Screen</b>	150 LPI – 2540 dpi	
<b>Focus system</b>	Automatic focusing	
<b>File format</b>	1_bit tiff, Gerber	
<b>Laser type</b>	UV laser, wavelength 405 nm	
<b>Laser power</b>	405 nm - 20 W / 25 W	
<b>Conditions</b>	Yellow light space, temperature 22± 2° C, 40 - 70 % relative humidity (no condensation)	
<b>Power</b>	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

Huobstrasse 3 · 8808 Pfäffikon · Switzerland

[www.drop.ch](http://www.drop.ch) · [info@drop.ch](mailto:info@drop.ch) · +41 62 544 20 80