

# JetScreen! CS

Ultra-Compact Computer-to-Screen System with UV Laser Diodes for High-End Screen Production



BASED ON INNOVATION.

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Technologies

## Advantages of the Patented Lüscher Laser Diode Technology

- PROVEN AND TRUSTED TECHNOLOGY MADE IN SWITZERLAND
- MAINTENANCE-FREE FIBRE OPTIC COUPLED LASER DIODE TECHNOLOGY
- FULLY AUTOMATIC CALIBRATION OF LASER DIODES
- ULTRA-LONG LIFESPAN OF THE LASER DIODES WITH +20'000 EXPOSING HOURS
- UPGRADEABLE – ADDITIONAL LASER DIODES CAN BE ADDED AT ANYTIME FOR FASTER EXPOSING SPEED
- HIGH-ENERGY LASER DIODES FOR HIGHEST ENERGY OUTPUT, NO ACTIVE COOLING SYSTEM REQUIRED
- NO CONSUMABLES
- OPERATES VIRTUALLY MAINTENANCE-FREE
- LOW ENERGY CONSUMPTION, LOWEST COST OF OWNERSHIP

## Advantages of the JetScreen! CS

- LÜSCHER TRIOPTIC! SYSTEM INCLUDES 3 DIFFERENT RESOLUTIONS FROM 635 DPI UP TO 10'160 DPI DEPENDING ON MACHINE TYPE
- DYNAMIC AUTOFOCUS
- HIGHEST ENERGY OUTPUT ON SCREEN. STANDARD DIAZO-PHOTOPOLYMER („DUAL-CURE“) EMULSIONS AND CAPILLARY FILMS CAN EASILY BE EXPOSED AND FULLY CURED
- NO CONSUMABLES SUCH AS MH LAMPS / UV LAMPS / LED'S OR DMD CHIP
- INTEGRATION IN AN AUTOMATIC INLINE SYSTEM POSSIBLE



## Technical Specifications of the JetScreen! CS

Machine Type	Max. Frame Size (W x H)	Max. Exposing Area (W x H)	Weight
JetScreen! CS (front loading)	1'300 x 1'400 mm (51.1 x 55.1 inch)	1'300 x 1'360 mm (51.1 x 53.5 inch)	1'800 kgs (3'968 lbs)
JetScreen! CS Inline (side loading & front loading)	1'300 x 1'450 mm (51.1 x 57.1 inch)	1'300 x 1'410 mm (51.1 x 55.5 inch)	1'850 kgs (4'078 lbs)

## General Information of the JetScreen! CS

Feature	Specification
Machine dimensions (L x W x H)	2'495 x 1'300 x 2'115 mm (98.2 x 51.2 x 83.3 inch)
Trioptic! resolution JetScreen!CS <sup>Basic</sup>	1'270 dpi (Included resolutions 635 / 2'540 dpi)
Trioptic! resolution JetScreen! CS	2'540 dpi (Included resolutions 1'270 / 5'080 dpi)
Trioptic! resolution JetScreen! CS <sup>Plus</sup>	5'080 dpi (Included resolutions 2'540 / 10'160 dpi)
Integration in an automatic inline system	Upon request
Laser diode type	UV, 405 nm
Number of laser diodes	32 / 48 / 64 / 80 / 96 / 112 / 128
Power supply	3 x 400 V + N + PE, 50 – 60 Hz, 32 A
Air supply	6 – 10 bar, 10 l/min
Power consumption	2 kW
Ambient conditions	50 – 65% humidity at 18 – 25° C (64.4 – 77 ° F)
Room conditions	yellow light, vibration-free floor

# Built for Highest Requirements in Screen Exposing

## **Lüscher Trioptic!-System**

Depending on the specific quality requirements, the desired resolution can be selected at the touch of a button. Three different resolutions are available for the JetScreen! CS to always operate in an optimal quality and speed range.

## **UV Laser Technology**

The fibre-coupled laser diodes operate in the 405 nm range and are characterised by an ultra-long service life of +20'000 exposing hours. They are completely maintenance-free, no need for active cooling system.

## **High Performance Reserves**

The laser diodes have a high-power capacity, so their energy can be adapted to the requirements of every emulsion. There is no need for high speed CtS emulsions: Any standard emulsion or thick layer can be exposed and cured by JetScreen! CS.

## **Fully Automatic Calibration**

Prior to every exposure, the system checks the default laser diodes settings relating to the emulsion to be exposed and automatically checks and calibrates the laser diode if necessary. This guarantees consistent screen quality and eliminates exposure errors.



**Virtually Maintenance-free**

JetScreen! CS does not require any consumables such as MH lamps / UV lamps / LED's or DMD chip. Lüscher maintenance software guides the operator through the simple maintenance tasks and guarantees high reliability. JetScreen! CS is equipped with a port for Remote Support Service, which can be directly linked to our technical support via internet.

**Lowest Energy Consumption**

Lüscher's patented laser diode technology ensures minimal power usage of 0.25 kW, reducing costs and providing lower cost of ownership. This promotes environmentally-friendly production for customers.

**Inline Processing**

As an option, the JetScreen! CS can be integrated in an automatic inline system for example with a loading magazine, developer and unloading magazine.

**Highest Exposure Quality**

The optional X!Tend software pushes past the physical limits of screen printing: X!Tend allows imaging of finer graphic elements compared to any standard imaging technique.

**Lüscher's Loading/Unloading System**

The standard manual front loading of the screen can be complemented with the automatic inline Lüscher loading/unloading unit.



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