

SCREENSETTER² LT

Computer-To-Screen Imaging with DMD™
and Blue Light Laser Technology



CTS for high quality application

The KIWO ScreenSetter² LT comes in various sizes and configurations to meet the quality and throughput requirements of most screen printing applications. Whether the task is 4-color process printing on CD's and DVD's, the production of ceramic decals or high resolution printed circuits, tubes & cartridges, flat & holloware glass, the ScreenSetter is capable of fulfilling the rigorous quality and workflow requirements of the most demanding screen print applications.

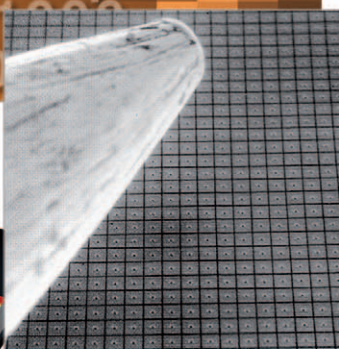
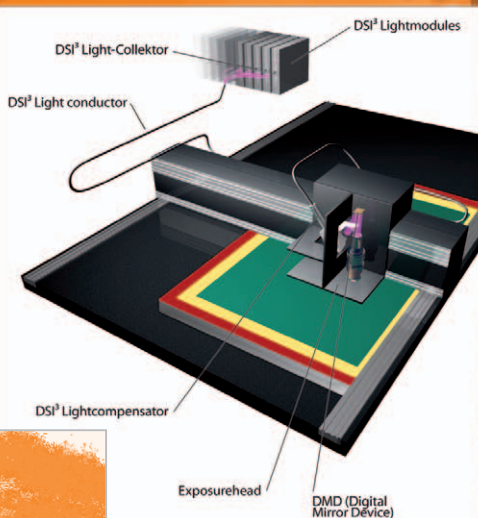
Digital Direct Exposure

The KIWO Screen-Setter² LT eliminates film positives and images the screen digitally and modulates the blue light from laser in such a way that it exposes the pre-coated screen only in the areas that need to receive light. Once the screen is imaged simply develop it as usual.

Workflow Advantages

The positive impact of the KIWO ScreenSetter² LT does not stop in the screen room. Most departments will see improvements starting with better control in the art department, easy file archiving procedures, elimination of handling procedures and transporting of films from one department to the other, all the way to easier and faster printing press setup.

In short, the KIWO ScreenSetter² LT provides a dramatic quality improvement, reduces production time, eliminates errors, increases your productivity and ultimately provides significant competitive and economic advantages.



KIWO®

Perfect stencil making
products – concepts – solutions

Proven Technology

The KIWO ScreenSetter² LT utilizes Texas Instrument's patented DLP™ technology.

In this process, blue light lasers are focused onto a DMD™ (Digital Micro-mirror Device), a component with 0.8 million mirrors. Each of the micro mirrors can be digitally controlled – the mirror either projects the light that it receives onto the screen or it diverts the light away from the screen. This means that each mirror represents a pixel creating an image on the printing screen by exposing the stencil material.

During the exposure the image head where the optics and the DMD™ are located, is continuously and smoothly "scrolling" across the stencil with high speed.

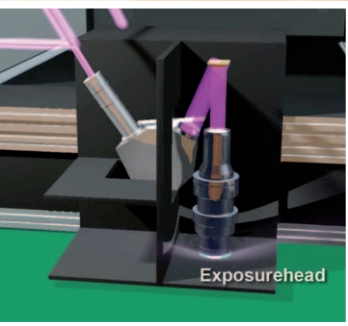
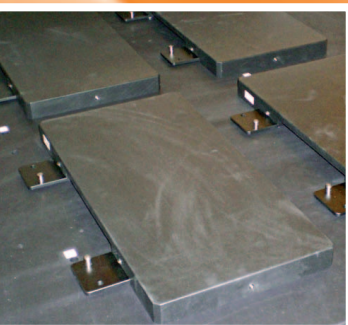


Image head with Optic, DMD™ and light compensator

The bundled blue Light from each Laser is sent through the compensator to the DMD™, and then from the DMD™ through the optic onto the stencil.



As a standard configuration the KIWO ScreenSetter² LT is equipped with 20 Blue light Lasers in one module. If more power and speed is required the KIWO ScreenSetter² LT can be upgraded to 3 modules with each 20 Lasers. The Blue Light Laser Diodes are very long lasting. No change of them during the lifetime of the KIWO ScreenSetter² LT is planned.

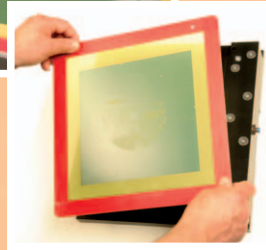
Unsurpassed Quality

By now word has spread that CTS improves the image quality. The KIWO ScreenSetter² LT takes this to yet another level, exceeding the quality of 2500 dpi film and exposes directly with the resolution up till 2400 dpi. You will see improvements in tonal range, dimensional stability, registration between colours and you will be able to print finer detail than ever before.

The key to all this is the extremely focused light path of each pixel and an accuracy in image placement that is simply astonishing.



Details of CD/DVD frames



Workflow advantages



Technical specifications

Data format	Common user Postscript files EPS, PS, PDF
Graph. Workstation	MAC, PC, UNIX
RIP	Harlequin Software RIP
Exposing Technology	DLP™ with Blue Laser light source
Resolution	1500 dpi, 2400 dpi
Connection to prepress	Ethernet
File format	TIFF
Compatible screen systems	All types of coating
Max. frame outside dimensions	Standard: 940 mm x 1150 mm
Max. image area	Standard: 940 mm x 1150 mm
Max. frame thickness	50 mm
Power connection	220 V, 50/60 Hz
Ambient conditions	20%-80% rhd, not condensing, 18°-24°C
Machine size	Width: 266 cm Deep: 167 cm Height: 133 cm
Weight	1500 kg

We reserve the right to make technical changes.

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