CTS Advantages

High Precision:
Resolutions 1270dpi or 2540dpi, with raster 133lpi/dpi (halftones printing)

High Efficiency:
3 minutes to finish the exposure on screen size 1000mm*1000mm. Stencil making efficieny has been greatly improved due to a lot of time is saved by the accurate exposure alignment and lobor reduction

Low Cost:
Elimination of film positives. Litho film are becoming increasingly expensive and the number of suppliers on the maket is rapidly decreasing. 1 procedure of CTS digital screen making to replace 5 procedures of from the conventional process

Application

Textile / Decal / Graphic / Auto / Packaging / PCB/ Label / Decoration

Digital Screen Making Solution Provider

With customer-oriented working principle, we have been striving to provide the technical innovations, the integrated professional solutions and services to the process to meet with the customer demands.

CTS Series



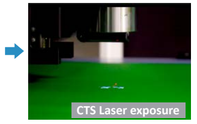


Specification / Model	CTS100	CTS200	CTS300	CTS500	CTS700
Application	Textile, Decal, Graphic, Auto, Packaging, PCB, Label, Decoration, etc.				
Max screen size (mm)	640x920	1000×1100	1200×1300	1500×1900	1800×2800
Min screen size (mm)	200×300			700x700	1000x1000
Max exposure size (mm)	540x820	900x1000	1100x1250	1400x1800	1700x2700
Screen frame thickness (bespoke service is available)	25-45mm			30-50mm	25-55mm
Imaging System	DMD DLP Technology				
Emulsion thickness (EOM)	Solvent resistant emulsion 3μm-150μm, water resistant emulsion 3μm-220μm				
Exposure time	120-240s/ ㎡, #350 yellow mesh				
Resolution	1270dpi/ 2540dpi(Optional), 12700dpi (For PCB)				
Raster	133LPI				
Focus system	Dynamic real time focus				
File format	1_bit tiff etc.				
Laser type	UV laser, wavelength 405±5nm				
Laser power	15W/20W/25W(Optional)				
Equipment size (mm)	1600x1000x1500	2700x1550x1600	3270x1900x1600	3100x2300x1400	3850x2550x1400
Equipment net weight	650KG	2200KG	2600KG	3800KG	4200KG
Conditions	Yellow light room with cleanliness Class 10000, temperature 22±2°C, 40-70% relative humidity (No condensation)				
Power	Single phase 220v, 50/60HZ, 4KW(CTS200,CTS300), 5KW(CTS500,CTS700), gas 1L/min				

*Specifications subject to change without notice

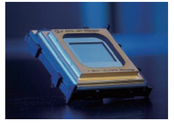
Compatible Processes with the Conventional Process

Data files is directly read by the CTS and then convented into images which will be transmitted through laser beams onto screens by DMD and lens.



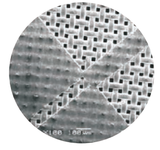
Digital Imaging Technology

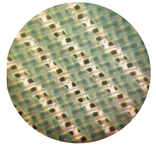
Digital images are produced by DMD (digital micro-mirror device) which has over 800 thousand or 2 million micrometer micro-mirrors, enabling clear and sharp squre dots. This latest digital exposure system has now become the new standards for screen printing industry.

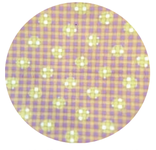



High Resolution

It is easy and fast to achieve raster 133LPI and high quality screen dots by the optical 1270dpi, while with the opitcal 2540dpi, high definition curved lines and perfect FM screen dots can be realized.


2540dpi


50-micron positive line on 120pw34(300/in)


5% halftone dots at 120lpi on 150pw31(380/in)


Four-color picture

Excellent Laser Piercing Power

Exellent laser piercing power, 15W, 20W and 25W three laser powers are optional, and the thickness EOM 120μm with solvent resistant emulsion and EOM 220μm with water resistant emulsion can be achieved for some special screen making such as carbon oil and capillary.