

ARTECHTM CtS

Computer-to-Screen

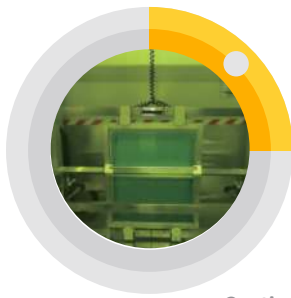
Advanced Screen Printing Solution Developer



What is CTS?

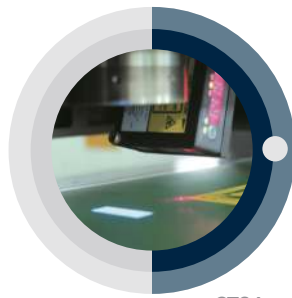
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The CTS laser direct imaging machine uses TI's DMD digital imaging technology to form a clear and sharp direct network point image on the silk screen through laser projection. In this way, the digital graphics in the computer can be imaged on the screen. This system has become the process of making screen images before silk screen printing



Coating

Step1



CTS Laser exposure

Step2



Development

Step3



Drying

Step4



CTS Process

Compatible Processes with the Conventional Process. Data files is directly read by the CTS and then converted into images which will be transmitted through laser beams onto screens by DMD and lens.

Digital Imaging Technology

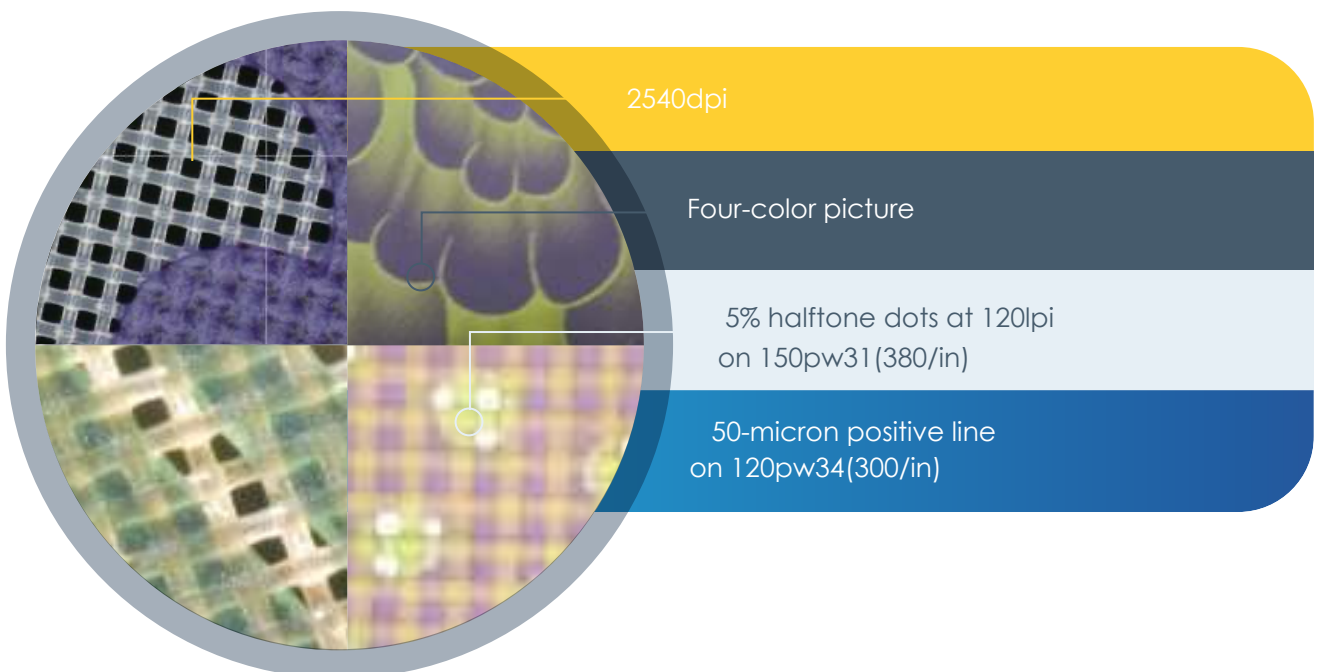
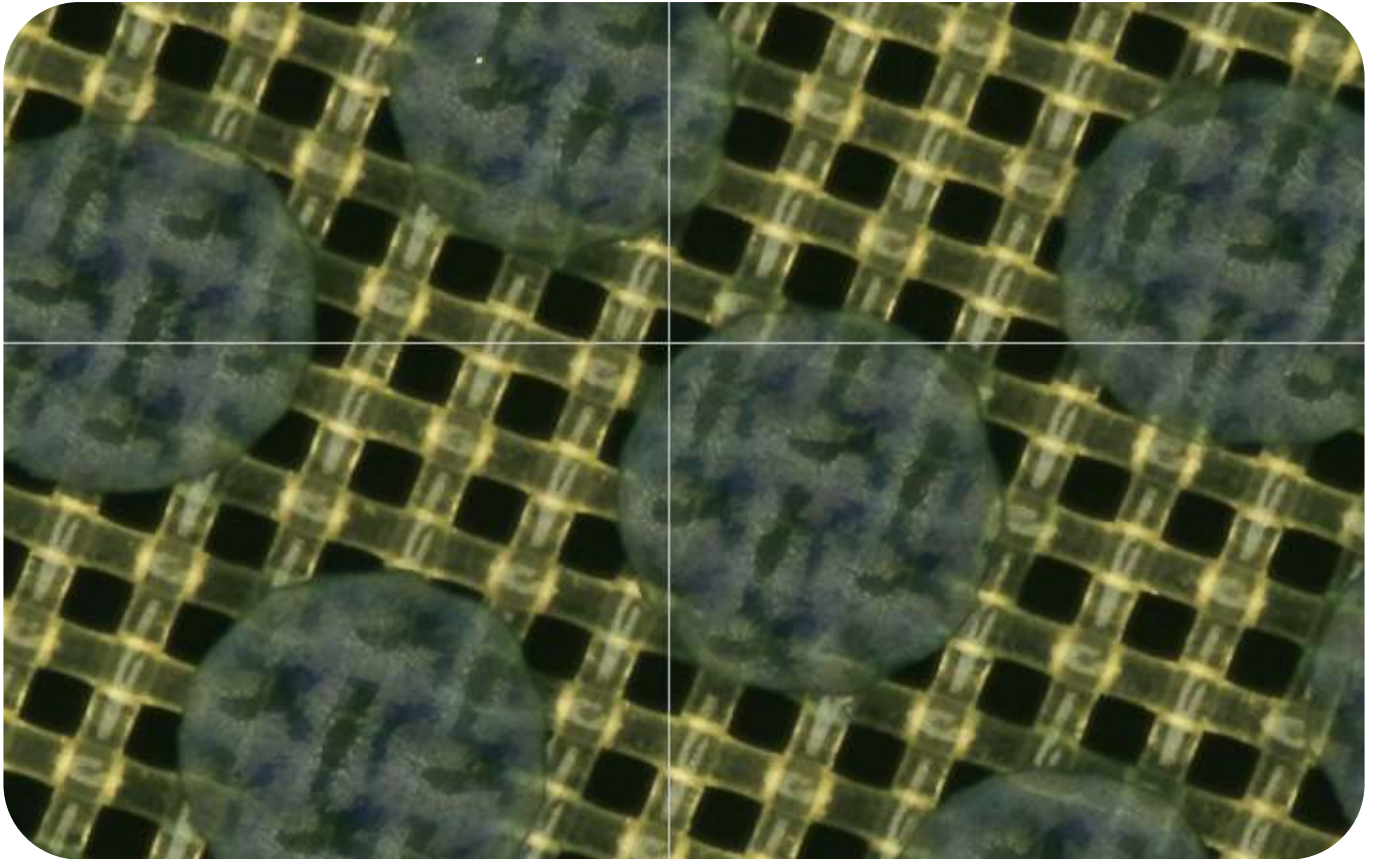
Digital images are produced by DMD (digital micro-mirror device) which has over 800 thousand or 2 million micrometer micro-mirrors, enabling clear and sharp square dots. This latest digital exposure system has now become the new standards for screen printing industry.



High Resolution

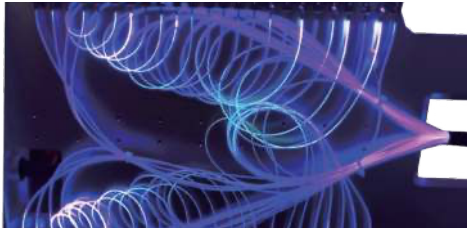
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It is easy and fast to achieve raster 133LPI and high image screen dots by the image 1270dpi, while with the image 2540dpi, high definition curved lines and perfect FM screen dots can be realized.



High-precision Optical Engine

According to customer requirements, it can be configured suitable lens 1.95 times (higher accuracy), 2.052 times, 3.1 times (higher capacity).



405nm Laser

ARTECH develops the 405nm coupled laser and laser imaging system to increase laser utilization from 30% to 50% of the old type.

DMD Image System

It can achieve the minimum lattice 10.8 μm and the minimum analytical line width 15 μm by using DMD imaging technology. Due to the differences in the screen process, it can show the minimum of 40 μm line width and 5% dot on the screen.



Stable Platform

It adopts HIWIN SP class guide rail, linear motor, Renishaw grating ruler, and marble base, etc., to ensure the stability of our equipment.

Aftersales Service

Our sales and service teams are professional. With the support of top technicians, we are committed to solving problems and failures in the sales process and maximizing the value of the equipment to.



Independent R&D Software System

Independent exposure system, and according to customer requirements it can add reasonable required functions.

Item	Specification
Max Screen Size	1200 mm × 1300 mm
Min Screen Size	400 mm x 400 mm
Max Exposure Size	1100 mm × 1200 mm
Thickness of frame	25-45 mm
Imaging System	DMD DLP Technology
Emulsion thickness	Solvent resistant emulsion: 3μm-120μm, water resistant emulsion: 3μm-250μm
Exposure time	120-280 s/m², 350 yellow mesh, (SBQ emulsion)
Resolution	1270 dpi / 2540 dpi (Optional)
Raster	Up to 133LPI
Focus System	Auto focus
File Format	1_bit tiff, Gerber.
Laser Type	UV laser, wavelength 405±5 nm
Laser Power	20W/25W/30W (Optional)
Equipment Size(mm)	2150 x 1860 x 1550
Net Weight	1600KG
Conditions	Yellow light room with cleanliness Class 100000, temperature 22±2°C, 40-70% relative humidity (No condensation)
Power	Single phase 220v, 50/60HZ, 4KW, gas 0.5Mpa

*Specifications subject to change without notice

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Tel: +852 2304-1363



Email: info@artrend.com



Website: www.Artrend.com



Unit 408, 4/F., Lu Plaza, 2 Wing Yip Street, Kwun Tong, Kowloon, Hong Kong.