



Applications

Automotive
 Labels Security Industrial
 Textile Sports equipment
 Ceramic Membrane switches
Electronics Decals Glass
 Graphic

OUR COMPANY NETWORK



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High performance products
 You prefer, we provide.

About

CST GmbH is the leading global supplier for state of the art screen imaging systems to the industry. Our patented technology provides the best possible solution for the most demanding applications. The new imaging system utilizing a DMD chip allows for various resolutions, very fast imaging speeds and low production costs. We deliver into more than 50 countries worldwide.

Our products

We manufacture systems to expose both, flat and rotary screens. Our machines are custom built depending on requirements of the customer application. We engineer for various resolutions, head systems and machine formats. We have built machines for flat screens up to 8 x 4,5 meters and 1,680 mm circumference rotary screens. Our machinery is designed for global production.



CST DLE Product Line

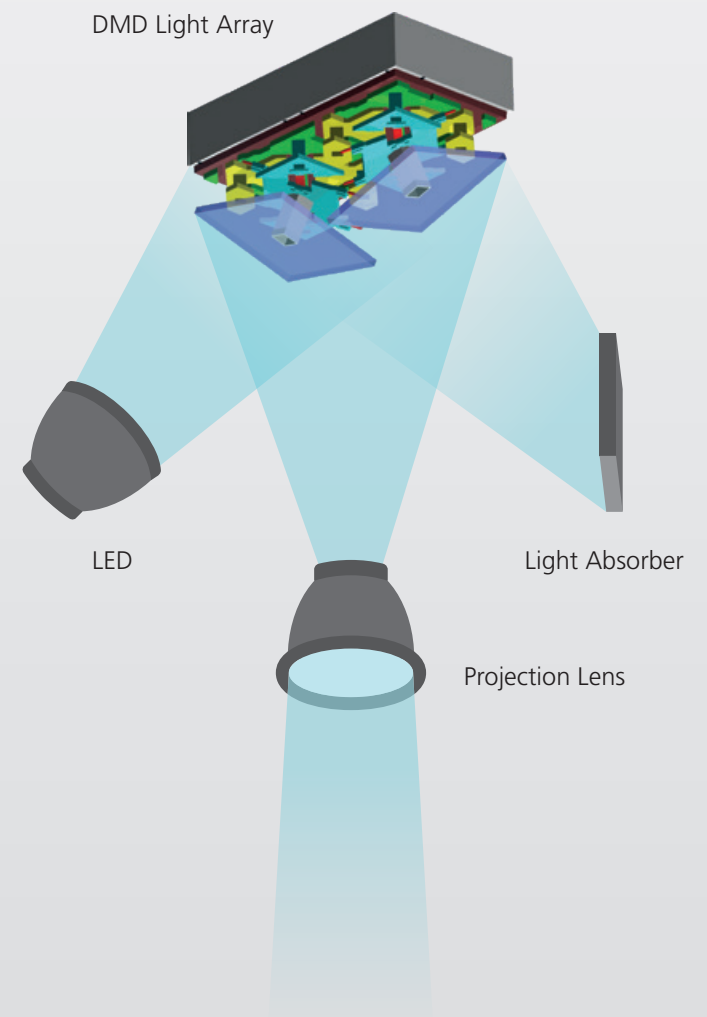


Technology

DIGITAL MIRROR DEVICE (DMD)

A Digital Mirror Device (DMD) modulates ultrahigh power UV light with image data, using up to 2,000,000 micro mirrors. While the DMD moves across the screen surface in sweeps the data scrolls continuously and results in perfectly seamless image production. As each of the micro mirrors represents one pixel, high speeds are possible and the imaging quality is exceptionally high. Resolutions of up to 5.000 dpi are possible.

DMD is the best light modulator for this application presently available on the market. Texas Instruments, the world leader in micro-mechanical mirror modulators, provides the DMD for the DLE screen imaging system. With millions of systems in operation since 1996, the DMD is a state of the art technology which is fail-safe and proven in reliability.



	DLE-COMPACT	DLE-VERTICAL	DLE-LABEL	DLE-ECO	DLE-ROTARY	DLE-ROTARY+
PLATFORM	Vertical	Vertical	Horizontal	Horizontal	Rotary	Rotary
FRAME CLAMPING	Pneumatic	Pneumatic	Manual/Vacuum	Manual	Manual	Manual
IN -LINE AUTOMATION	Yes	Yes	No	No	No	No
SIZE MIN	0,5m x 0,5m	1,0m x 1,0m	0,1m x 0,1m	0,1m x 0,1m	2,0m	2,0m
SIZE MAX	1,5m x 1,5m	8,0m x 4,0m	1,2m x 1,0m	3,0m x 2,0m	3,5m	3,5m
RESOLUTION DPI	1270/2540	1000/1270	2540/5000	1000	1000	2400
SD DMD CHIP (1024 X 768)	Yes	Yes	No	Yes	Yes	No
HD DMD CHIP (1920 X 1080)	Yes	Yes	Yes	No	No	Yes
CALIBRATION SYSTEM	Yes	Yes	Yes	Yes	Yes	Yes
REMOTE ACCESS	Yes	Yes	Yes	Yes	Yes	Yes
DATA INOUT	Tiff 6.0	Tiff 6.0	Tiff 6.0	Tiff 6.0	Tiff 6.0	Tiff 6.0
LIGHT SOURCE	Multi-Wavelength LED UV or Laser	Multi-Wavelength LED UV or Laser	Laser	Multi-Wavelength LED UV	Multi-Wavelength LED UV	Laser
POWER REQUIREMNTS	230V single phase, 2,5kVA	230V single phase, 2,5kVA	230V single phase, 2,5kVA	230V single phase, 2,5kVA	230V single phase, 2,5kVA	230V single phase, 2,5kVA
WORKING CONDITIONS	18-25° Celsius, Humidity 40-70% not condensing, dust-free environment	18-25° Celsius, Humidity 40-70% not condensing, dust-free environment	18-25° Celsius, Humidity 40-70% not condensing, dust-free environment	18-25° Celsius, Humidity 40-70% not condensing, dust-free environment	18-25° Celsius, Humidity 40-70% not condensing, dust-free environment	18-25° Celsius, Humidity 40-70% not condensing, dust-free environment
APPLICATION	Industrial/Textile	XL Format/XXL Format	Industrial	Industrial/Textile	Textile	Textile