

DISKING LDS Series
S117 型激光直接制版机(LDI for Screen)
——规格说明书 (Specification) ——



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1. 总体概述(Introduction)

传统制版行业，使用菲林加工网板，不仅增加环境污染，增加工序，而且大量的菲林的生产和管理成本。随着近几年激光直接成像技术的快速发展，使用激光直接成像技术直接制版成为现实。地势坤团队拥有十余年激光直接成像技术经验积累，结合国内外先进的设计制造技术，自主研发的 LDS 系列激光直接制版机，已经达到国际领先水平，产品颇受终端客户的青睐。

In the traditional screen industry, the film is necessary. It's not only increases environmental pollution and process, but also costs a lot of film production and management. With the rapid development of LDI technology in recent years, the DI Screen exposurer has become a reality. DISKING team has more than ten years of experience in LDI technology, combined with advanced design and manufacturing technology at home and abroad, independently developed LDS series LDI Screen exposurer, has reached the international level, the products are very popular with customers.

2. 设备功能 (Functions)

适用于线路板,手机玻璃,印刷等行业的网板制作。如线路板网板、文字网板、防焊网板,手机玻璃盖板网板,印刷网点网板等。不需要菲林。一键上板,自动夹板。产品特点:产能高;支持大板面,板面支持规格多;线数多,图像质量高。

Applicable to PCB, mobile glass, printing and other industries of screen production. Such as PCB screen, text screen, solder mask screen, mobile phone glass screen, dot screen, etc. No film. One-key work mode, automatic fix screen frame. Features: high output; support large panel, large tolerance in size and height; the number of hanged line is big; high quality imaging.

3. 设备参数 (Specifications)

SPEC(指标)	S117
最小网板尺寸(mm) Minimum Size(mm)	400mm x 400mm
最大网板尺寸 Maximum Size(mm)	1200mm x 1200mm
网板最大厚度 Maximum Height(mm)	45mm
网板最小厚度 Minimum Height(mm)	25mm, 更薄的网板需要增加垫块。 If < 25um, should use the heel blocks.
曝光时间 Exposure Time	148s@20W / 1000mm * 1000mm
关键加工尺寸 Critical Dimension	50um (Minimum Line Width or Space Width) 50um(最小线宽或线距)
最大图形尺寸 Maximum Image Size	1100mm x 1100mm
最大挂网线数 Maximum Line Number per in.	130 线 130LPI
光源功率 Light Power	20W@320mA [15W@320mA 25W@320mA]
光源波长 Light Wavelength	405nm±5nm
DMD 类型 DMD Style	XGA(X, 1024x768)、1080P(F、1920x1080)
光源类型 Light Source Style	LD (Laser Diodes)
焦深 (DOF)	±300µm
数据格式 (Format)	274X/D、tiff
主动聚焦 (Active Focus)	支持 (Support)
设备尺寸	长(Length): 2930mm 宽(Width): 1960m 高(Height): 1595mm(实际尺寸以设备为准, The actual size depends on the equipment.)。

SPEC(指标)	S117
Equipment Size	
设备重量 (Weight)	3500kg
二楼承重 2 nd Floor bear	> 600kg/m ²
可选功能 Optional Function	能量监测(Energy Monitor) 拼版(Makeup) 能量自动校准(Energy Automatic Adjustment) DXF 支持(DXF Support) 全保套餐(VIP/All Parts)
保固期 Warranty Period	发货后 12 个月。 12 Months after shipment.

4. 设备特性 (Features)

- 双远心的光学系统设计，保证足够的景深来容忍平整度误差；镜头畸变系数在万分之一以内，保证图像的品质；

The design of double telecentricity optical system guarantees sufficient depth of field to tolerate flatness errors, and the lens distortion coefficient is less than one thousandth of a million to ensure the quality of the image.

- 大行程主动聚焦的设计，满足不同规格板厚的需求，同时保证在曝光时，锁定光学系统焦面与基底曝光面的相对位置；

The design of large-stroke active focus, it meets different plate thickness, and ensures that the distance between the focal plane of the optical system and the base exposure surface is constant during exposure.

- 高精度静音导轨，不仅减少噪声，还满足运动时的实时精度；
High-precision silent guideway not only reduces noise, but also ensures the real-time accuracy of motion.

- 铸铁框架底座设计，隔离人的操作产生的振动，避免其对运动系统的干扰；
Cast iron frame base is designed to isolate the vibration caused by human operation and avoid its interference to the motion system.

- 高效的隔震设计，采取进口高密度隔震材料，有效隔离底座和大理石间的振动，保证设备正常工作；
Efficient isolation design adopts imported high-density isolation materials to effectively isolate the vibration between the base and marble to ensure the stable of the equipment.

- 托盘面的防水设计，可将网框中残留的水引进导水槽内，大大降低设备意外损坏的风险；
The water-proofing design of the pallet surface can introduce the residual water in the net frame into the water diversion tank, which greatly reduces the risk of accidental damage to the equipment.

- 滑动式托盘压脚设计，不仅保证广泛支持各种高度和宽度的网板，在运动时，可以紧紧地固定住网板，防止其在运动时滑动；

The design of sliding tray foot not only guarantees wide support for various height and width of the screen, but also can tightly fix the screen to prevent it from sliding in motion.

- 料号软件和曝光软件集成式设计，可以在曝光的同时，进行料号设计，提高工作效率；

The integrated design of job software and exposure software can design job when espousing to improve work efficiency.

- 紧凑的电控系统设计，体积小，重量轻，屏蔽效果好，置于机器尾端，便于维护和安装；

The Compact electronic control system which is small size, light weight and good shielding effect is placed at the end of the machine and easy to maintain and install;

- 优化的软件算法设计，单台计算机就可以控制整台设备，减少了故障点，大大提升设备的稳定性；

With Optimized software algorithm, single computer can control the entire equipment, reduce the failure point, improve the stability;

- 高效的数据处理模块设计，保证在曝光过程中的每个位置可精确的生成与位置相对应的图形，完成精确的图形投放；

- Efficient data processing module ensures that every position in the exposure process can accurately generate the corresponding graphics and complete accurate graphics projection;
- 前后双急停开关设计，为人身安全保驾；
Double emergency switch is designed to ensure personal safety.
- 高效、紧凑的激光模组，不仅可以支持高达 25W，而且采用优化的保护电路设计，增加记忆功能等，不仅延长激光器的使用寿命，也大大提升光的利用率和输出功率，降低维护成本，减少维护时间；
High efficiency and compact laser module can not only support up to 25W, but also adopt optimized protection circuit design and increase memory function, which not only prolongs the service life of laser, but also greatly improves the utilization of light and output power, reduces maintenance cost and reduces maintenance time.
- 高密度数据分辨率（12700dpi,25400dpi）设计，确保设备输出的线条的平滑度和一致性。
High-density data resolution (12700 dpi, 25400 dpi) is designed to ensure the sharpness and uniformity of output lines.

5. 易损件清单(Consumable Parts List)

所有光学部件都是易损件。All optical parts are consumable.

部件 (Parts)	单位 (Unit)	保固期 (Warranty Period)
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激光器模组 LD Slot Module	套(Set)	24 个月 (24 Months)或 8000 小时(hours) 任何一个条件达到的, 视为过保固期。 Any one condition is reached, it is over warranty period.
耦合光纤束 Bundled fiber	根(Line)	12 个月(12 Months)
数字微镜 Digital MicroMirror Device	枚(Set)	24 个月(24 Months)
照明镜头 Illumination Optical System	套(Set)	12 个月(12 Months)
成像镜头 Projection Optical System	套(Set)	12 个月(12 Months)

6. 优势对比 (Contrast)

表格 1 LDS 对比 传统曝光机

参数指标	LDS	传统曝光机
加工精度	原始精度, 不存在二次加工误差	菲林是原始精度, 通过菲林加工后, 存在二次加工误差。
涨缩控制	涨缩系数小, 受环境影响小, 环控成本小, 可调整涨缩比。	菲林二次加工时, 受环境影响大, 环控成本高。不可调整涨缩问题。
线宽	线宽可控, 可补偿, < 10 %	线宽不可控, 由菲林决定。
线边锐利度	锐利度高, 一致性好。	锐利度较低, 容易毛边
外形尺寸	误差小, 整场不超过 0.01%, 即 <100um/m。	外形误差大,
一致性	高度一致性, 产品品质长时间, 稳定	不稳定, 不同菲林的品质不同, 批次质量不稳定
菲林成本	无	高
打样效率	不需要加工菲林, 直接加工	需要加工菲林, 再加工样板
条码支持	支持加工唯一性的二维码或条码或文字, 减少打标机过程	无法支持唯一性条码或文字, 需要打标机等。
ERP 支持	支持 ERP 对接	不支持

Table 1 LDS VS Film Exposerer

Spec	LDS	Film Exposerer
Reworking error	no reworking error.	Film has not the error, but the product will have the error, and cannot remove.
Scale Error	The scale error could be very small and adjustable.	The error could be very large and not adjustable.
Critical Dimension (CD)	CD error is adjustable by operator. CD error < 10 %	CD error is fixed by film error.
Sharpness	Edge is very sharp. Good Uniformity.	Edge is rough and zigzag is very many.
Size Error	< 0.01% (< 100um/m)。	> 0.05% (> 500um/m)
Batch Uniformity	High, Quality can be kept long time, and independent of the artifacts.	Unstable, Batch quality is dependent on film quality.
Cost of Film	None	High
Sample efficiency	Direct Process, No Film	Need Film, Lots of time.
Barcode Support	Could output unique Barcode without the Marker.	Couldn't output the unique barcode. The barcode will be marked by Marker.
ERP Interface	Support	Don't support

7. 工作原理 (Basic principles)

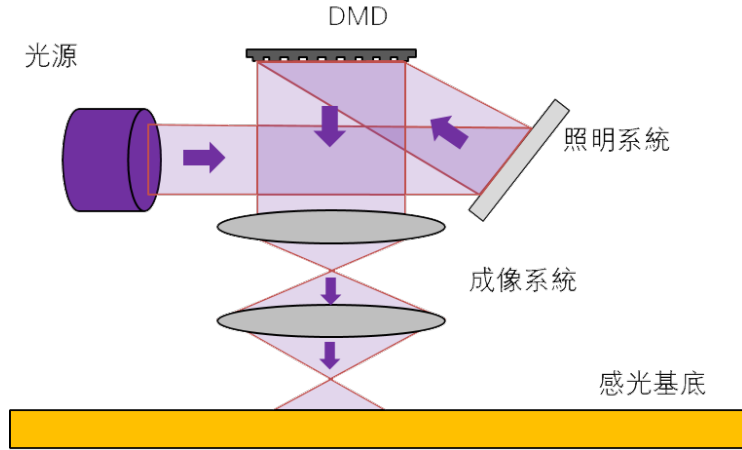


图 1 激光直接成像工作原理 (Basic principles)

光源将平行光输入到 DMD(图形发生器), 控制系统实时不间断地改变 DMD 中的图形, 使通过镜头组的光发生改变, 达到在基底材料上光刻图形的目的, 所以称为直接成像 (Direct Imaging)。因为在基底上的光是数字化控制的, 所以也称为数字影像(Digital Imaging)或数字光刻(Digital Lithograph)。

The parallel light is inputted onto DMD (Spatial Light Module) by the Light source. And the control system changes real-time and continually the image which is inputted into DMD and is displayed by DMD. Then the light is reflected by DMD and changed into the structural light. The structural light achieve the substrate through the lens group, so it called direct imaging. Because the light on the substrate is digitally controlled, it is also called digital imaging or digital lithograph.

8. 工艺流程(Workflow)

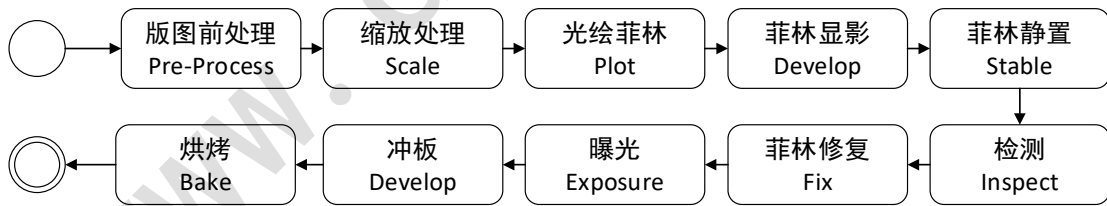


Figure 1 传统工艺流程(Traditional Workflow)

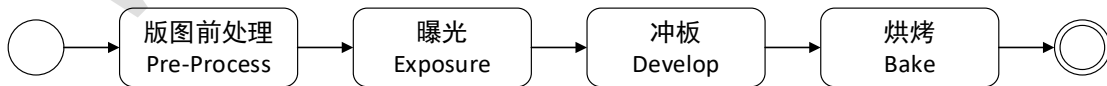


Figure 2 LDS 工艺流程(LDS Workflow)

9. 选型指南 (Selection Guidance)

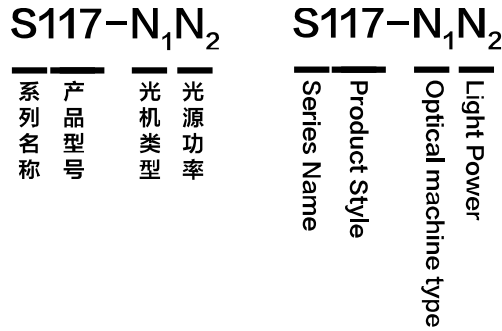


图 2 选型图 (Guidance Chart for Product Selection)

名称(Section Name)	含义 (Description)
N ₁	<p>光机类型。XGA 型或 1080P 型。XGA 简记为 X, 1080P 为简记为 F。</p> <p>Optical machine type. XGA or 1080P.XGA is abbreviated as X, 1080P is abbreviated as F</p>
N ₂	<p>光源类型及光源功率，单组输出的光源功率。各光机组使用的光源输出功率一般选择一致的。E 表示 LED 型光源,L 表示 LD 型光源,其他新型光源另标记。如 E15, L20 等。</p> <p>Light source type and power, single output light source power. The output power of the light source used by each optical unit is generally the same. E means LED light source, L means LD light source, and other new light sources are marked separately. Such as E15, L20, etc.</p>

10. 产能对比(Outputs)

指标 型号	S117					
	XL10	XL15	XL20	FL10	FL15	FL20

DMD 分辨率		1024x768			1920x1080		
光源功率(W)		10W	15W	20W	10W	15W	20W
曝光尺寸	800x800mm	197 秒	150 秒	127 秒	182 秒	130 秒	105 秒
	900x900mm	245 秒	184 秒	155 秒	214 秒	152 秒	122 秒
	1000x1000mm	290 秒	216 秒	181 秒	263 秒	185 秒	148 秒
	1100x1100mm	348 秒	257 秒	213 秒	316 秒	221 秒	176 秒
注意		上述产能不含上、下网板的时间。曝光尺寸指曝光区域的尺寸，含边缘固化尺寸，并非网板的尺寸。测试油墨感光能量：100mj/cm ²					

Spec Style		S117					
		X10	X15	X20	F10	F15	F20
DMD Resolution		1024x768			1920x1080		
LD Power(W)		10W	15W	20W	10W	15W	20W
Exposure Size	800x800mm	197sec	150sec	127sec	182sec	130sec	105sec
	900x900mm	245sec	184sec	155sec	214sec	152sec	122sec
	1000x1000mm	290sec	216sec	181sec	263sec	185sec	148sec
	1100x1100mm	348sec	257sec	213sec	316sec	221sec	176sec
Memo		The outputs don't contain the loading and unloading time. The exposure size is screen area only, not include frame area. The resist energy:100mj/cm ²					

11. 设备外形 (Profile)

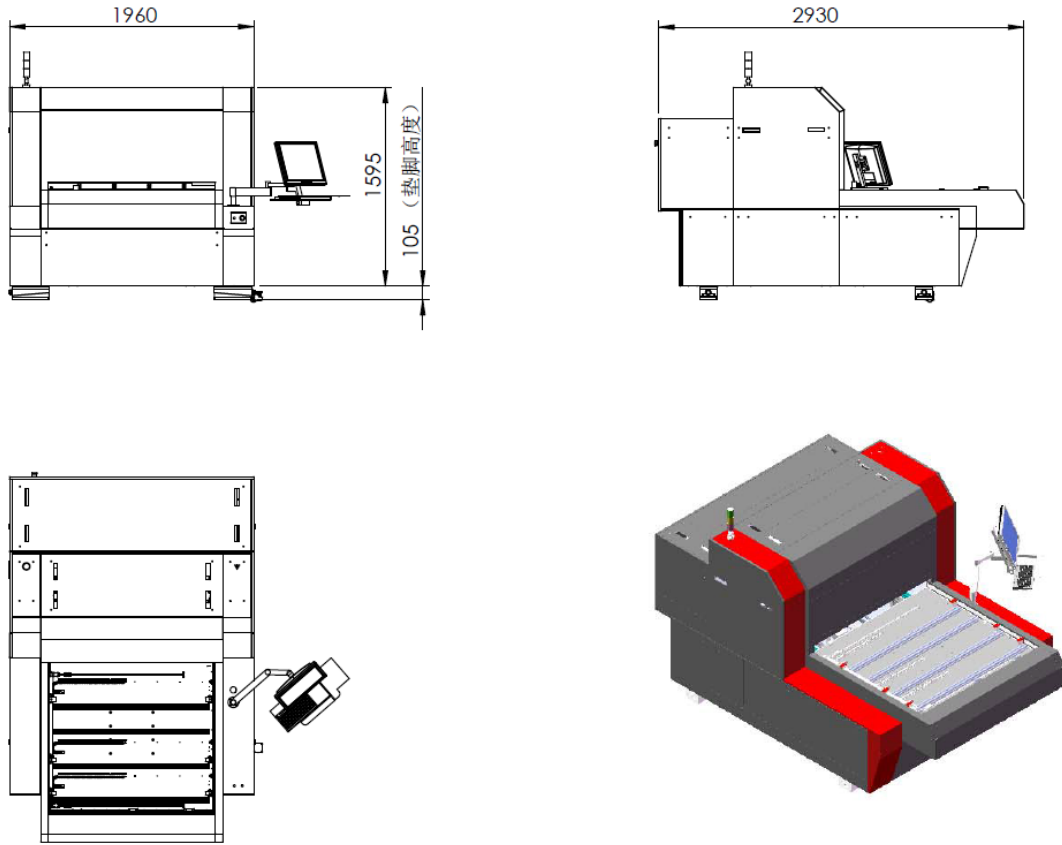


图 3 S117 设备外形 (Profile)

12. 环境需求 (Environment Requirments)

条目(Item)	需求 (Requirement)
温度(Temperature)	22°C±2
湿度(Humidity)	50% RH±5%
震动(vibration)	VC-B
洁净度 (Cleanness)	万级或以上 Level 10000 or better.
电源 (Power)	单相三线制: AC220V±5%, 50/60Hz(以设备说明书为准); 三相五线制: 380VAC±5%, 50/60Hz(以设备说明书为准);

	Single-phase three-wire system: AC220V (+5%), 50/60Hz (based on equipment specifications); three-phase five-wire system: 380VAC (+5%), 50/60Hz (based on equipment specifications);
接地 (Ground wire)	必须 (MUST)
供气 (Air Supply)	干燥压缩空气: 10L/min, 0.6MPa;、电源电缆、发排数据线须用卡环固定。 Dry compressed air: 10L/min, 0.6MPa; Power cable and data transmission line should be fixed with a clasp.
局域网 (NetWare)	客户需要使用内部局域网的, 需要提前在现场布置 RJ45 接头和可用的 IP 地址。 If NetWare is necessary, RJ45 connectors and available IP should be prepared in advance.
运输通道 (Transport Path)	\geq 设备宽度(Equipment Width) + 200mm; 确保设备可通过(Ensure that the equipment could be passed through).

13. 注意事项 (Notice):

- 1) 使用空调的环境, 空调口不可直接对准设备。

In the environment where air conditioning is used, the outlet of air conditioning should not be directly faced to the equipment.

- 2) 设备应安装在有利于最佳操作的工作区域，不能放置在热源、空调附近和阳光直射的窗边，设备四周必须留有 1 米以上的空间，以便设备维护。

The equipment should be installed in the working area which is conducive to the best operation. It should not be placed near the heat source, air conditioner or window directly exposed to sunlight. There must be more than one meter of space around the equipment for the maintenance of the equipment.

- 3) 供电注意(Attention to power supply):

- a) 场地供电不稳定时，需加配 $\geq 5\text{KW}$ 的净化稳压电源(需客户另行采购);

When the power supply is unstable, a stabilized voltage supply ($\geq 5\text{KW}$) should be applied(should be purchased by customers);

- b) 电源必须没有高频谐波存在;

It's necessary that there is not high frequency harmonics in the power supply;

- c) 设备必须单独使用一条电源线;

The equipment must use a separate power supply;

- d) 设备周围 5 米范围内不能存在大功率变压器及强电磁信号的设备;

It is strictly forbidden that there are high power transformer and strong electromagnetic signal within 5 meters around the equipment;

- e) 每一电源出口必须有独立之中性线和地线;

It's necessary that each power outlet must have an independent neutral line and ground line;

- f) 接地线必须实接至厂房的“大地”接点;

It's necessary that grounding wires should be connected to the "earth".

- g) 在设备的电源输入位置，中性线和接地线之间的电压差不可大于 1V。

The voltage difference between the neutral line and the ground line should not be greater than 1V at the power input position of the equipment.

- 4) 设备工作时严禁带电插拔数据线插头，安装数据线时须切断设备和电脑电源。

It don't allow to plug and unplug the data cable when the equipment is working. If should install the data line, the power supply of the equipment and the computer should be shutdown.

- 5) 导轨属精密加工件，严禁使用锐利物体刮划或使用腐蚀性液体擦拭。

The guideway is a precision part. It is strictly forbidden to scratch with sharp objects or wipe with corrosive liquid.

- 6) 光栅是精密光学器件，维护时仅能采用纯水润湿的无尘布进行擦拭，严禁采用酒精等有机溶剂擦拭，否则会导致光栅不可恢复性损坏。

The raster is a kind of precise optical device. It can only be wiped by pure water and no-dust paper during maintenance. It is strictly forbidden to wipe with organic solvents such as alcohol. Otherwise, it will be fatally damaged to the raster.

- 7) 保持工作间门常闭状态。设备房与外界间需要有隔离房，避免外界的湿气、温度和粉尘在短时间内大量进入设备房。

It's necessary that always keep the door of equipment room closed. The isolation between the equipment room and the outside is necessary that could avoid lots of moisture, temperature and dust into the equipment room in a short time.

- 8) 电梯的内部面积和运载能力必须满足能使本机运输至所到的层面；

If be about to load the equipment with the elevator, please ensure area and carrying capacity of the elevator is enough to transport the floor.

- 9) 严禁使用地毯。避免静电、粉尘和细菌；

Carpets are strictly prohibited. It could avoid static electricity, dust and bacteria.

- 10) 拒绝使用带水的网板上机操作;

Water-carrying screen is refused to operate on equipment;

- 11) 平时不关空调，严格控制温度。如须关闭空调，再次开机前，需要等空调恒温后，再等待不低于4小时后再开机工作，确保设备精度恢复正常。

Do not turn off air conditioning, please strictly keep temperature in the equipment room. If you need to turn off the air conditioner, before startup again, you should keep to wait for the constant temperature of the air conditioner, and then wait for no less than 4 hours before starting to work, to ensure that the accuracy of the equipment come back.

- 12) 开机前检查镜头、运动系统是否有结露现象，若已结露，请打开除湿装置进行除湿，直至结露消失，同时立即联系厂商进行后续处理。

Check dewing or not on lens and motion system before startup. If dewing, please dehumidify until the dewing is disappear, and contact the manufacturer immediately to treat this event.

- 13) 远离震动源;

Keep away from the vibration;

- 14) 无论设备是否处于工作状态，人都不要直接接触工作台面。

No matter whether the equipment is working or not, No one could contact the workbench directly.

- 15) 尽量不在二楼放置设备。如需要放置，需要保证每平米承重能力不低于 600 公斤。

Please don't put the equipment on the 2nd floor. If you hope so, please ensure that the load-bearing capacity of each square meter is not less than 600 kilograms.

- 16) 减少开关门的次数，物料的进入建议设计小通道。

Reduce the frequency of open and close door, the small channel which be used to transfer material is recommended.

- 17) 湿度过高时，需要除湿，过低时，需要加湿。上机操作前，释放静电。

When the humidity is too heavy, dehumidification is necessary, and when the humidity is too light, humidification is necessary.

Please release static electricity before operation.

- 18) 设备系统参数是经过严格测试的，禁止修改。

The system parameters of the equipment are strictly tested and calibrated.

No modification is allowed.

19) 设备是精密仪器，禁止非正常关机或随意切断电源。

The equipment is a precision instrument. It is forbidden to shut down abnormally or cut off power at will.

14. 操作规范 (Operational agreements) :

1) 客户端的操作人员，必须经过原厂工程师的培训，并严格遵守操作手册。凡是发生因为不遵守操作手册而导致的机台问题，将不在产品质保服务范围之内。因为操作人员违反操作手册流程而导致的机台损坏、维修，客户必须支付相应的技术服务费用。例如：

Operators of the client must be trained by the vendor's engineer and strictly abide by the operation manual. Any equipment problems caused by non-compliance with the operating manual will not be guaranteed. Because the operator violates the operation manual and causes the equipment damage or problem, the client should afford the payment of the service. For example:

-违反操作手册，在设备未完全关闭的情况下断开机台总电源，导致系统异常或软件丢失；

- violates the operation manual to disconnect the main power supply of the equipment without shutdown, led that system is abnormal or file is loss;

-违反操作手册，擅自更改主控电脑和板卡的 IP 地址，导致设备通讯故障而无法正常工作。

- violates the operation manual to change the IP address of the master computer and board without authorization, led that communication is failure and the equipment cannot work properly.

- 2) 客户端严禁在未经过原厂同意和指导下对设备进行搬运、移动和改变工作环境。任何未经原厂授权进行的搬运、移动和工作环境改变，如果导致机台损坏、参数变动、和非正常工作，将不在产品质保服务范围之内。如需要服务，客户必须支付相应的技术服务费用。

It is strictly forbidden that carry, move and change the working environment of the equipment without the consent and guidance of the vendor. Any unauthorized carry, movement and change of environment will not be guaranteed that machine damage, process change or abnormal work. If service is required, the customer must pay the service fee.

- 3) 客户端应保证设备工作在产品限定的合格工作环境中，我们确保设备在要求的使用环境中可以正常运行。如果因设备工作环境不满足设备使用环境要求而带来的相关问题，如环境湿度过大、温度过高、电压过高或过低等问题而带来的机台故障或者部件损坏，将不在产品质保服务范围之内。

The client should ensure that the equipment works in the perfect environment required by the equipment, and we ensure that the equipment could work normally in the required environment. If the real environment does not match the environment of the requirements of the equipment, such as heavy

humidity, high temperature, high or low voltage, the damages which are caused by the worse environment will not be guaranteed.

15. 公司简介(About DISKING)

安徽地势坤光电科技有限公司(Anhui Disking Opto-Electric Technology Co. LTD), 是一家集研发、设计、销售于一体的激光直接成像和工业自动化的高端装备制造制造商。公司总部坐落于阜阳智能制造产业园, 占地 30 余亩, 一期建设厂房 1.2 万平米, 其中千级洁净车间 2000 余平米, 拥有齐全的工艺配套设施。研发中心位于激光直接成像技术的发源地--合肥。在华东、华南也分别设立了销售和服务中心, 还将继续在其他省市设立服务中心, 以便于快速响应周边客户服务需求。

Anhui Disking Opto-Electronics Technology Co. Ltd. is a high-technology equipment manufacturer who has the research, development, design and sales team and focuses on laser direct imaging (LDI) and industrial 4.0. The company's headquarters is located in Fuyang Intelligent Manufacturing Industrial Park, covering an area of more than 30 mu. The first phase of the construction of 12,000 square meters of workshop, including 1000-level clean workshop of more than 2,000 square meters, has complete process facilities. The research and development center is located in Hefei where the birthplace of LDI technology is. Sales and service centers have also been set up in East and South China, and service centers will continue to be set up in other provinces and municipalities to facilitate rapid response to customer service needs around.

公司拥有完善的管理、研发、生产、销售和售后服务体系, 为客户提供成套的解决方案和全方位的技术服务。

The company has a fine management, research and development, production, sales and after-sales service system, to provide customers with a complete set of solutions and comprehensive technical services.

公司专业致力于数字图像转移技术(Digital Imaging Transfer)以及自动化智能化检测技术的研发和应用。目前已经成功应用于线路板(PCB)、3D 玻璃、丝网印刷、半导体集成电路等行业。产品可广泛应用于 PCB、3D 手机玻璃盖板、丝网印刷、IC 芯片、掩模版、MEMS、生物芯片、IC Substrate、Touch Panel、TFT-LCD、LED 等领域的影像转移以及检测。

The company specializes in the development and application of LDI technology and AOI technology. At present, it has been successfully applied in PCB, 3D glass, screen printing, semiconductor integrated circuits and other industries. Products can be widely used in PCB, 3D glass cover, screen printing, IC chip, mask, MEMS, biochip, IC Substrate,

Touch Panel, TFT-LCD, LED and other fields of imaging transfer and detection.

公司名称的由来:

DI是我们所处的行业, DIS是激光直接成像系统,是我们的产品, DIS KING,是我们的企业愿景。DISKING, Digital Imaging System KING。DISKING谐音为“地势坤”。周易有云:“天行健,君子以自强不息,地势坤,君子以厚德载物”,是地势坤的核心价值观的高度体现。

The origin of DISKING name:

DI means Direct Imaging which is DISKING's profession, DIS means direct imaging system which is our product, DISKING means that "DISKING IS the KING of Digital Imaging System". The homonym of DISKING is "地势坤, terrain". Zhouyi (is a Chinese legend book) said, "Heaven walks vigorously, gentlemen constantly strive for self-improvement, the terrain is vast, and gentleman carries goods with great virtue", which is a high reflection of the core values of DISKING.

设计理念 Design Concept(DFM³):

为客户设计: Design for Marketing

为生产设计: Design for Manufacture

为售后设计: Design for Maintenance

服务理念: 稳定是最好的服务

Service Concept: Stable is the best service.

核心文化: 做有品格的人, 做有品质的产品, 做有品牌的企业。

Core Concept: Be a qualified member, build a quality product, become a reputation enterprise.