

迪恒
股份

SH-DU6550

LASER
PROJECTOR

火星系列激光工程投影机



Product parameters

产品参数

火星系列SH-DU6550工程激光投影机

Mars series SH-DU6550 Laser Engineering Projector

型号(Model): SH-DU6550	显示芯片(Display chip): 0.48" DMD
投影技术(Projection technology): DLP	投射比(Projection Ratio): 1.36~2.18
分辨率(Resolution ratio): 1920*1200 (16:10)	画面尺寸(Screen size): 60"~200"
光源(Light source): MCL激光光源(laser source)	噪音(Noise): 39decibel
光源寿命(Light source lifespan): 20000 hour	对比度(Contrast ratio): 5000000:1
亮度(Brightness): 6550 ISO流明(lumen)	扬声器(Speaker): 10W*2
可换镜头(interchangeable lens): 0.5、0.7、1.75-2.75	电压(Voltage): AC 100-240V~50/60 Hz
融合步长(Fusion step size): 可调节(adjustable)	融合宽度(Fusion width): 0%~100%
整机功率(Power): 435W	尺寸(Size): 330 (W)x405 (L)x 143 (H)mm
重量(Weight): 7.1 (kg)	

镜头位移(Lens displacement): 手动(hand movement) V: $\pm 50\%$, H: $\pm 23\%$

画面旋转(Contrast ratio): 正常(normal)、90°、180°、270°、
水平/垂直镜像(Horizontal/Vertical Mirror)

几何校正(contrast ratio): 水平垂直梯形矫正, 四角校正, 单点、整行、整列、整面
Horizontal and vertical trapezoidal correction, four corner correction, single point, whole row, whole column, whole surface

校正点(Correction point): 2*2 / 3*3 / 5*5 / 9*9 / 17*17 / 20*20

网格密度(Mesh Density): 可调节(adjustable)

暗场校正(Dark field correction): 支持(support)

色差调节(Color adjustment): 支持(support)

3D: 支持主动3D且带3D SYNC同步接口
(Supports active 3D with 3D SYNC synchronization interface)

接口(Interface): D-sub in x 1, D-sub out x 1, HDMI x 2, LAN x 2, RS232x 1, USB-A x 2, Audio in x 1, Audio out x 1, 3D VESA in x 1, 3D VESA out x 1, DC 12V OUT x 1

系统(System): Android 9.0

CPU: AMLOGIC A311D AI

内存(Memory): 16Gb DDR4

储存(storage): 32G EMMC

输出分辨率(Output Resolution): 4K@60hz(3840*2160@60hz), WUXGA(默认), 1080P, WXGA...

支持格式(support format): MP4,MOV,AVI,MKV,WMV,MPEG,RM

调试方式(debug mode): 手机APP调试(Mobile app debugging)

片源控制(Source control): 安卓/iOS APP

开窗功能(Window opening function): 跨屏开窗/漫游/精准定义窗口位置&大小
Cross screen window opening/roaming/precise definition of window position and size

遮罩功能(Masking function): 跨屏遮罩、遮边功能
Cross screen masking and edge masking functions

Built in multiple projection image modes

内置多种投影图像模式

包含明亮、演示、标准、中国红、sRGB、电影、DICOM、融合及用户模式，其中中国红模式为针对红色主题馆特别调教的颜色模式，更适用于红色主题展馆。

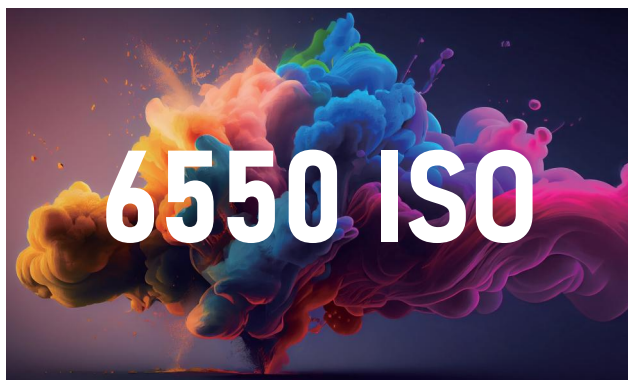
It includes bright, demonstration, standard, Chinese red, sRGB, movie, DICOM, fusion, and user modes. Among them, Chinese red mode is a color mode specially tuned for red themed pavilions, which is more suitable for red themed exhibition halls.



6550 ISO 流明, 无惧强光 6550ISO lumens are fearless of strong light

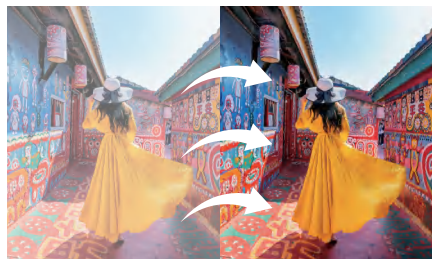
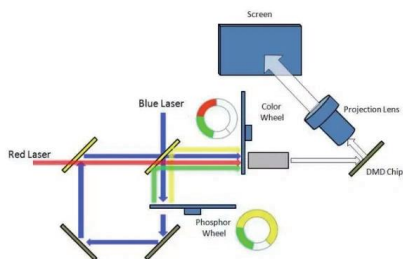
投影亮度高达6550 ISO流明, 在**高端宴会厅、会议室、展厅展馆**等场景下, 无惧环境光的影响。

The projection brightness is as high as 6550 iso lumens, and it is not afraid of the influence of ambient light in high-end banquet halls, conference rooms, exhibition halls, and other scenes.



双色轮增色技术 Dual color wheel color enhancement technology

采用双色轮增色技术, 通过荧光轮和色轮双重处理, 画质色彩表现更优秀。



Adopting dual color wheel color enhancement technology, through dual processing of fluorescent wheel and color wheel, the picture quality and color performance are better.

配备防尘袋 Equipped with dust bags

机器配备迪恒设计的投影防尘袋, 可有效保护机器在调试前受现场安装环境灰尘的影响, 简单易用, 更贴心。

The machine is equipped with a projection dust bag designed by Diheng, which can effectively protect the machine from the influence of on-site installation environment dust before debugging. It is simple, easy to use, and more considerate.

DLP LINK主动3D、3D SYNC 同步接口

自带DLP LINK 主动3D 无需额外的信号同步发射器,降低成本,且同步信号不易被遮挡

同时也支持3D SYNC接口进行同步的方式。



DLP Link active 3D and 3D SYNC synchronization interface

The built-in DLP LINK active 3D does not require an additional signal synchronization transmitter, reducing costs, and the synchronization signal is not easily blocked. At the same time, it also supports the 3D SYNC interface for synchronization.



2*360度均可以灵活投影 2 * 360 degrees can be flexibly projected

出色的散热功能确保其可以支持2*360度任意角度安装,以满足不同投影环境的安装需求。
The excellent heat dissipation function ensures that it can support installation at any angle of 2 * 360 degrees to meet the installation needs of different projection environments.



双HDMI备份设计 Dual HDMI backup design

搭载2个HDMI接口。在项目使用中若1个HDMI接口烧毁,可以采用另外一个HDMI接口紧急备份,无缝切换使用,对项目的影响可以降低到最小的程度。

Equipped with 2 HDMI interfaces. If one HDMI interface burns out during project use, another HDMI interface can be used for emergency backup, seamless switching, and minimizing the impact on the project.



7*24小时不间断稳定运行 7 * 24-hour uninterrupted stable operation

机器支持7*24小时不间断稳定运行,无灯泡光源的炸灯风险。

The machine supports uninterrupted and stable operation for 7 * 24 hours, without light bulbs The risk of exploding lights at the source.



多种投影控制方式 Multiple projection control methods

可通过智能手机或平板电脑控制投影机运行状态、支持AMX、PJLINK、LAN网络控制、支持红外控制、支持RS232串口控制。

It can control the operation status of the projector through a smartphone or tablet, support AMX, PJlink, LAN network control, support infrared control, and support RS232 serial port control.



支持4角拉伸、自动梯形校正 Supports 4-angle stretching and automatic trapezoidal correction

设备搭配原装1.36-2.18长变焦镜头,搭配V:±50%, H:±23%的镜头位移功能,可灵活应用于不同的空间场景。

The device is equipped with an original 1.36-2.18 long zoom lens, with a lens displacement function of V: ± 50% and H: ± 23% which can be flexibly applied to different spatial scenes.



Brain in Cloud 智能云脑

通过云端服务器“大脑”与各个投影机节点连接，在大脑中实现片源商城购买、画面分割、故障信息分析与处理、远程控制等。采用OpenGL打造的图像算法，采用先进的分布式架构，兼具融合、开窗、横幅、娱乐等众多功能

Brain in Cloudn

By connecting to various projector nodes through the cloud server "brain", it can achieve film source shopping image segmentation, fault information analysis and processing, remote control, etc. in the brain. The image algorithm created using OpenGL adopts advanced distributed architecture, which combines many functions such as fusion, windowing, banners, entertainment, etc

投影健康守护, 状态监视功能 Projection health protection and status monitoring function

投影运行时的温度, 序列号, 分辨率, 使用时间等信息实时集中检测显示, 故障发生可自动推送报警, 更早发现问题及异常。

用户可以一键检测与用户关联的产品的健康状况, 主动及时发现不良。

通过APP用户可以清晰地看到产品的使用时间、每天的使用时间、曾经发生的错误报警。进而更加全面的掌握产品健康状况。

Real time centralized detection and display of temperature, serial number, resolution, usage time and other information during projection operation. If a fault occurs, an alarm can be automatically pushed to detect problems and anomalies earlier.

Users can easily check the health status of products associated with them with just one click, and proactively and promptly detect any defects.

Users can clearly see the product's usage time, daily usage time, and past error alarms through the app. Furthermore, to gain a more comprehensive understanding of the product's health status.

投影分组功能, 自定义命名分组 Projection grouping function, custom named grouping



APP控制 (control)

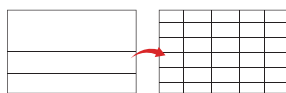
同一场地, 不同区域投影可进行分组独立管理, 一个APP独立操控展区所有机器,

Within the same venue, projections from different areas can be grouped and managed independently. A single app can independently control all machines in the exhibition area,

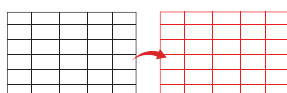
画面切割功能 Screen cutting function

采用云计算图像切割, 不受输入分辨率限制, 可实现超高分辨率多点输入输出方案, 图像不压缩。实现更清晰的大屏融合显示。最多支持252台投影融合同步。

Using cloud computing for image segmentation, it is not limited by input resolution and can achieve ultra-high resolution point multi-point input and output solutions without compressing images. Realize clearer large screen fusion display. Supports up to 252 projection fusion synchronization devices.



网格密度可调
Adjustable grid density



网格颜色可调
Grid color adjustable



网格背景颜色可调
Grid background adjustable

内置几何校正功能 Built in geometric correction function

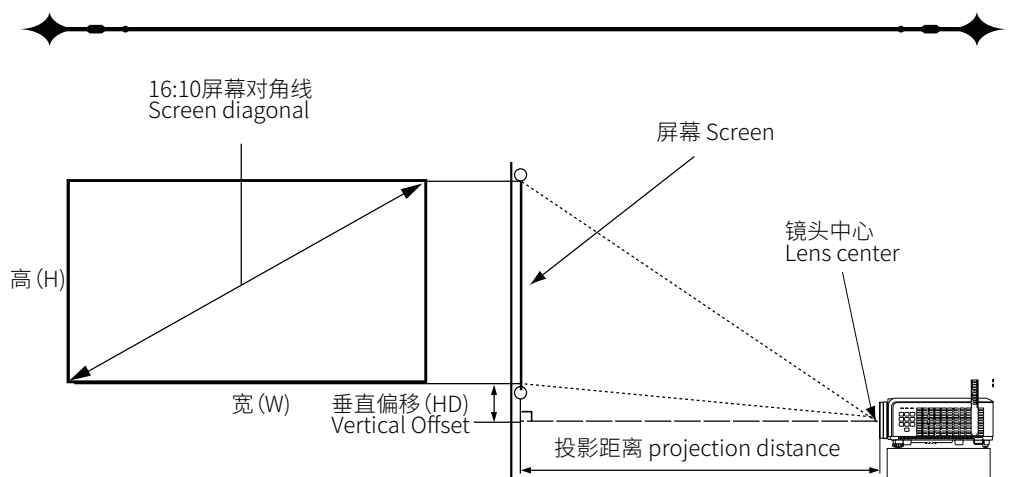
具备20X20几何校正功能,全部中心点可调,移动步长,网格颜色及背景均可调节,同时支持点,行,列,面四种调节模式,且调试数据可云端存储和下载。

Equipped with 20x20 geometric correction function, all center points can be adjusted, movement step size, grid color and background can be adjusted, and supports four adjustment modes: point, row, column, and surface. Debugging data can be stored and downloaded in the cloud.

弹幕及飘屏功能 Bullet screen and floating screen function

支持弹幕及飘屏互动功能,增强终端用户的交互体验,为商业空间带来新的沉浸式互动体验。消费者可通过此功能在大屏上发表对朋友的祝福,个人的心愿等。

The bullet screen and floating screen functions support interactive bullet screen and floating screen functions, enhancing the interactive experience of end users and bringing new immersive interactive experiences to commercial spaces. Consumers can use this feature to express their blessings to friends, personal wishes, etc. on the large screen.



投影距离表
Projection distance table

16:10画面 对角线尺寸 Diagonal size of the screen (inch)	屏幕尺寸screen size W*H				投影距离 projection distance				垂直偏移 Vertical Offset		水平偏移 Horizontal Offset	
	m		inch		m		foot		m	foot	m	foot
	w	H	w	H	广角 wideangle	远角 wideangle	广角 wideangle	远角 wideangle	典型值 Typical value	典型值 Typical value	典型值 Typical value	典型值 Typical value
60	1.29	0.81	50.88	31.80	1.75	2.80	5.75	9.20	0.40	1.32	0.30	0.98
70	1.51	0.94	59.36	37.10	2.04	3.27	6.70	10.73	0.47	1.55	0.35	1.14
80	1.72	1.08	67.84	42.40	2.34	3.74	7.66	12.26	0.54	1.77	0.40	1.30
90	1.94	1.21	76.32	47.70	2.63	4.20	8.62	13.79	0.61	1.99	0.45	1.46
100	2.15	1.35	84.80	53.00	2.92	4.67	9.58	15.33	0.67	2.21	0.50	1.63
110	2.37	1.48	93.28	58.30	3.21	5.14	10.54	16.86	0.74	2.43	0.54	1.79
120	2.58	1.62	101.76	63.60	3.50	5.61	11.49	18.39	0.81	2.65	0.59	1.95
130	2.80	1.75	110.24	68.90	3.80	6.07	12.45	19.92	0.88	2.87	0.64	2.11
140	3.02	1.88	118.72	74.20	4.09	6.54	13.41	21.46	0.94	3.09	0.69	2.28
150	3.23	2.02	127.20	79.50	4.38	7.01	14.37	22.99	1.01	3.31	0.74	2.44
160	3.45	2.15	135.68	84.80	4.67	7.47	15.33	24.52	1.08	3.53	0.79	2.60
170	3.66	2.29	144.16	90.10	4.96	7.94	16.28	26.05	1.14	3.75	0.84	2.76
180	3.88	2.42	152.64	95.40	5.26	8.41	17.24	27.59	1.21	3.97	0.89	2.93
190	4.09	2.56	161.12	100.70	5.55	8.88	18.20	29.12	1.28	4.20	0.94	3.09
200	4.31	2.69	169.6	106.00	5.84	9.34	19.16	30.65	1.35	4.42	0.99	3.25

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