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Shenzhen Vividdots Technologies Co., Ltd

LED Digital Sign



The LED digital signs are specifically designed for fixed installations in branding, advertising and retail applications. They are built to withstand the toughest conditions, for high usage and to still look great in years to come.

The LED digital signs are of front service access, powered by hydraulic technology, which relieves the headaches of maintenance. Furthermore, there is no need for extra steel frame to support them: you could mount them to building walls or poles directly. Also there is no need for computer. You could control it by Android or IOS based smart devices via 4G or WIFI.



Item Name	LED Digital Sign
Document No.	VD-1630

1. Specifications

Model No.	LDS4	LDS6	LDS8	LDS10	LDS16	
Pixel pitch	4 mm	6.67 mm	8 mm	10 mm	16 mm	
LED type	SMD 1921	SMD 3535	SMD 3535	SMD 3535	SMD 3535	
Brightness	5500 nits	6000 nits	6000 nits	6500 nits	7200 nits	
Power consumption	AV. 300 W/m ²	Avg. 300 W/m ²	Avg. 300 W/m ²	Avg. 300 W/m ²	Avg. 450 W/m ²	
Resolution	640 x 400	384 x 240	320 x 200	256 x 160	160 x 96	
Dimensions	256*160 cm / 8.4*5.25 Ft	256*160 cm / 8.4*5.25 Ft	256*160 cm / 8.4*5.25 Ft	256*160 cm / 8.4*5.25 Ft	256*153.6 cm / 8.4*5.04 Ft	
Weight	250 kg (551.16 lb)/pc	240 kg (529.11 lb)/pc	230 kg (507.06 lb)/pc	230 kg (507.06 lb)/pc	220 kg (485.02 lb)/pc	
Operating system	Novastar / Linsn / Xixun / DBstar / Colorlight, etc					
IP rating	IP 65					
Serviceability	Front					
Refresh rate	1920 Hz					
Color depth	14 Bit					
Viewing angle	Horizontal 140°; Vertical 120°					
LED lifetime	80,000 hrs (50% brightness)					
Operational temperature	-20°C ~+50°C / -4°F ~+122°F					
Operational humidity	10%~90%					
Input voltage	100~240V / 50~60Hz					

Note: Please be aware that dimensions could be customized according to project-specific requirement.



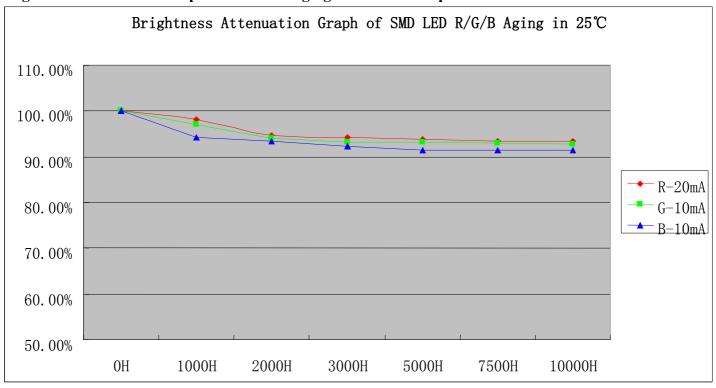
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2. Experimental Parameters of Testing

Data of the Normal Temperature Aging Attenuation								
Item	Aging Time	ОН	1000H	2000Н	3000Н	5000Н	7500H	10000Н
R	Avg. Brightness(mcd)	210	206	199	198	197	196	196
K	Brightness Reduction%	100.00%	98.10%	94.76%	94.29%	93.81%	93.33%	93.33%
G	Avg. Brightness(mcd)	500	485	470	466	466	465	464
G	Brightness Reduction%	100.00%	97.00%	94.00%	93.20%	93.20%	93.00%	92.80%
В	Avg. Brightness(mcd)	105	99	98	97	96	96	96
	Brightness Reduction%	100.00%	94.29%	93.33%	92.38%	91.43%	91.43%	91.43%

2.1. Normal Temperature

Brightness Attenuation Graph of Modules Aging in Normal Temperature



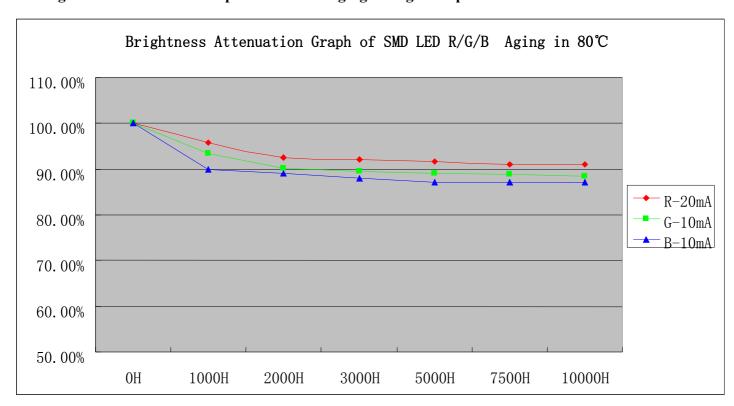


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2.2. High Temperature

D	Data Statistics of Brightness Attenuation of Modules Aging in High Temperature								
T.	Aging Time	0Н	1000H	2000Н	3000Н	5000H	7500H	10000Н	
Items									
	Avg. Brightness(mcd)	213	204	197	196	195	194	194	
R	Brightness Reduction %	100.00%	95.77%	92.49%	92.02%	91.55%	91.08%	91.08%	
	Avg. Brightness(mcd)	510	476	460	456	454	453	451	
G	Brightness Reduction %	100.00%	93.33%	90.20%	89.41%	89.02%	88.82%	88.43%	
	Avg. Brightness(mcd)	109	98	97	96	95	95	95	
В	Brightness Reduction %	100.00%	89.91%	88.99%	88.07%	87.16%	87.16%	87.16%	

Brightness Attenuation Graph of Modules Aging in High Temperature





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2.3 Reliability Testing

Types Testing		Reference Standard	Testing Condition	Lasting time	Acceptance Criteria				
LED									
	Temperature Cycling JESD22-A104-A		-40°C ~25°C ~100°C ~25°C 30mins,5mins,30mins,5mins	Cycled 100times	0/50				
Environmental Test	Thermal Shock	JESD22-A106	-40°C ~100°C 30mins,30mins	Cycled 100times	0/50				
	High-temperature Storage	JIS C 7021 (1977)B-11	Ta=60°C RH=90%	1000 hours	0/50				
Lifetime	Normal Temperature Test	JESD22-A108-A	Ta=25°C Testing condition: power-up	1000 hours	0/50				
Test	High Temperature Operating Life	JESD22-A101	Ta =85℃ RH=85% Testing condition: power-up	1000 hours	0/50				
Vibration Test	Mechanical Vibration	MIL-STD-883 Method 2007	20G mins,20 to 2000Hz 4 cycles, 4mins.Each,X,Y,Z		0/50				
		LED Un	it(One Cabinet)						
Environment	Low Temperature Storage Test	GB2423.2	Store it under the condition of (-40±2)0C for 4h, then recovered it in room temperature for 4h. Every function works well.	8 hours	0/50				
Storage Test	High Temperatur e Storage Test	GB2423.2	Store it under the condition of (60±2)0C for 4h, then recovered it in room temperature for 4h. Every function works well.	8 hours	0/50				
Aging Test	Normal Temperature Aging Test		Ta=25°C 72 hours uninterruptible power supply	72 hours	0/50				
	High Temperature Loading Test	GB2423.2-89	Worked under the condition of (40±2)0C for 8h, and checked every hour one time. Every function works well.	8 hours	0/50				
Vibration Test	Mechanical Vibration	GB6587.4-86	Worked under the condition of frequency of shock in 5HZ-55HZ-5HZ, with 0.19mm amplitude for 5 minutes	5 minutes	0/50				