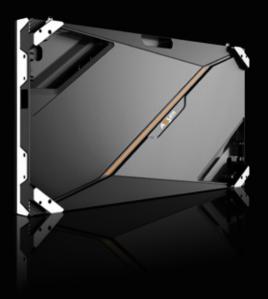






1.2mm | 1.5mm | 1.8mm | 2.5mm







16:9 Golden ratio



HFR+High frame rate mode



800nitsMaximum brightness



X/Y/Z axisSix-direction alignment



Fine AdjustmentGrayscale improvement technology



Color PrecisionColor management technology



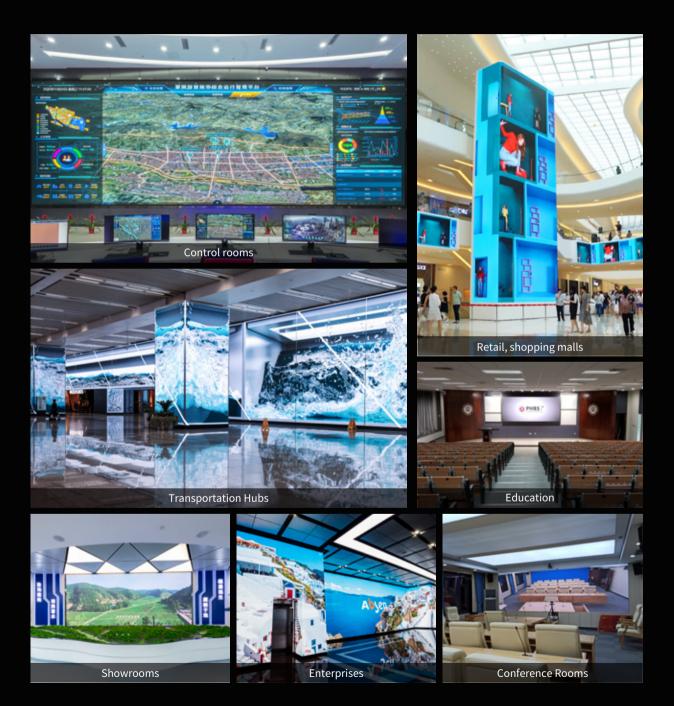
3840Hz High refresh rate



Dual receiving card & dual power box

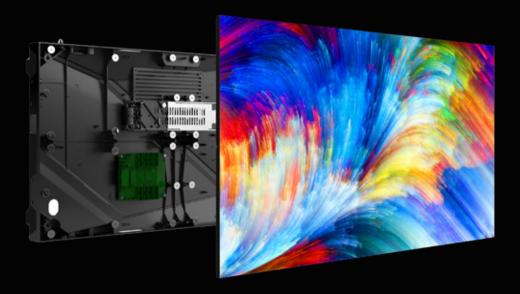
Optional version

For all commercial display applications



Ready-to-use panel with superior quality

Adopting the closed design, the panel contains high-quality power supply, receiving card and other components. Delivered in the form of ready-to-use panel, product quality is more guaranteed.





Fine die-casting aluminum cabinet



High-performance receiving card



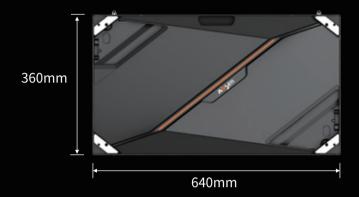
High-quality power box



Magnets with strong attraction force

Golden ratio brings better visual comfort

Based on ergonomic research, the panel adopts the golden ratio of 16:9 to enhance viewing comfort. It is also more suitable for playing mainstream videos.



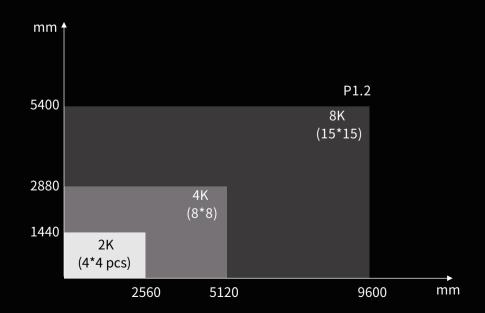
16:9

Panel size

The optimal aspect ratio for viewing Mainstream video aspect ratio

Easily enjoy 8K vision display

 m^2 panels can be spliced into a 16:9 screen to quickly achieve a 2K, 4K or even 8K display, making it especially suitable for use in places such as studios, command centers and conference rooms.



Fine Adjustment grayscale improvement technology

The grayscale performance is increased by four times, making the grayscale changes more naturally. Even under low brightness, it can perfectly display details even in the dark parts of the picture.



Fine grayscale, details visible in dark parts



Low grayscale, details lost in dark parts

Color Precision management technology

Intelligent adjustment is made through Color Precision management technology to match the color gamut range of the display with the source image.

Highly reproduce natural scenes and achieve high-fidelity colors.



Original image



No color management, with color deviation

With color management, no color deviation

HFR+ mode for capturing the best moments

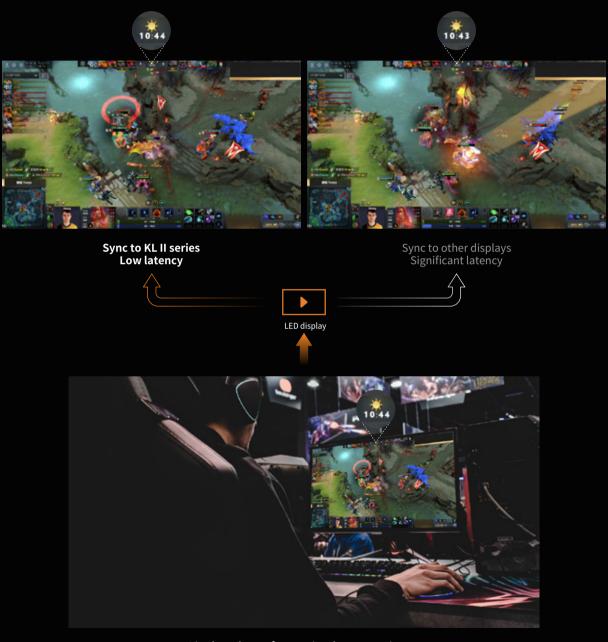
Supports HFR+ mode* (120Hz high frame rate), smoothly displaying high-speed, quick-changing content and enhancing visual fluency, making it especially suitable for playing high-speed motion pictures and 3D pictures.





Ultra-low latency enables real-time image display

Reduces delays in transmission of video sources, synchronizes the display of real-time images and helps achieve live broadcasting with ease.



Live broadcast of transmitted computer images

Record exciting moments as you like

The brightness can reach up to 800nits, which greatly reduces the influence of ambient light on the display effect. Using PWM LED driver IC, the refresh rate is as high as 3840Hz, and there is no scan line when taking pictures.



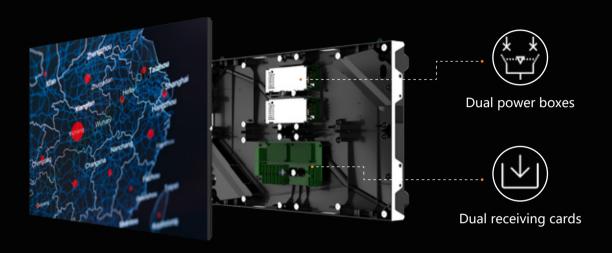
Photo taken without scan lines



Photo taken with scan lines

Always keep the signal uninterrupted

Supports dual receiving cards and dual power boxes to ensure uninterrupted power supply and signal, so as to realize continuous transmission of information. This function is especially suitable for use in places such as control rooms and studios.



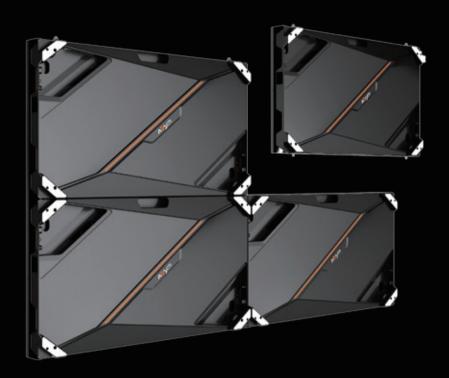




Control room Studio

Multiple installation methods

The KL II Series supports hanging, wall mounting and stacking installation, etc. Hidden wiring design is adopted to make the installation more tidy. It supports six-direction alignment to improve flatness of the screen.





Stacking installation



Wall-mounting installation



Hanging installation



Hidden wiring design



Anti-collision design



Quick plug-in/out



X/Y/Z axis alignment

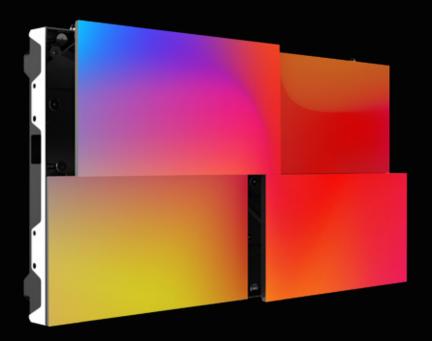
Standard elegant accessories

Provide standard hanging bar and backing strip accessories to make installation easier. Provide ultra-thin trim pieces solution to enhance aesthetic feeling in all directions.



Easy and convenient front maintenance

Support front maintenance of module, receiving card and power box. No need to build a dedicated maintenance channel, thereby saving installation space.









Module

Receiving card

Power box

Standardized quality control

It is manufactured in Absen's own factory through a standardized production process, and has obtained multiple certifications, allowing customers to use it without any worries.



igl(lacksqraket) Standardized manufacturing process

Every step of the production process is strictly managed to ensure product quality



Strict quality control

18 monitoring procedures 29 operating procedures 33 recording procedures 2,285 inspections and tests

(Multiple certifications obtained, legal and compliant

Certified through CCC, China Energy Conservation Certification, etc. Passed performance/ blue light hazard/ photobiology test, etc., which are recognized by CNAS accredited institution

Professional service, best experience

Absen has built up a global network, able to provide prompt and professional local services.

Absen service ability



Comprehensive support

Enjoy 2-year warranty, support up to 3-year extended warranty, lifetime maintenance, and enjoy 10+ items of professional service solutions to help you solve problems



୍ଦି | Global coverage

400+ Absen certified partners, 2,400+ Absen certified engineers, covering most of the global market, the global service network is continuing to expand vigorously



Multiple service channels

Providing service via multiple channels such as Hot line, WeChat, WhatsApp, E-mail and official website to quickly take care of service requirements



(24h) 24/7 response

24/7/365 available, quick response in 10 seconds



One-stop service

Enjoy exclusive and professional service in the whole process of pre-sales, sales and after-sales



Service channels

Hot line: +86 400-700-3278 WeChat: 13923413428 WhatsApp: 008613923413428 Email: service@absen.com Official website: www.absen.com



(24h) Service time (GMT+8)

8:30~24:00: Staff service

00:00~8:30: Intelligent system service

Absen service philosophy

Initiative

Proactive care and return visits, regular touring inspection services for customers

Efficiency

Absen customer service center responds within 10 seconds, intelligently match the best local service resources, and enjoy a fast service experience

Standardization

Comprehensive service engineer training system, ACE professional training and certification, ACP professional certification; establishing customer's product files and record the entire service process

Thoughtfulness

Longer warranty, worry-free quality



Ready-to-Use LED

· Superior Quality / Worry-Free / Safe & Secure

Superior Quality

Excellent product design
Reliable raw material
Standard manufacturing process
Quality control throughout the whole manufacturing process
Extraordinary visual effect



VS

Inferior Quality

Crude product design
Poor raw material
Non-standard manufacturing process
No strict quality control
Terrible visual effect



· Inferior Quality/ Troublesome/ Hidden Dangers



Worry-Free

Ready-to-use panel
Quick installation
One-stop standard solution
Global service and long term warranty



Safe & Secure

Safe and trustworthy
Certification
Professional installation & maintenance services



Troublesome

On-site assembly
Complicated installation
Non-standard solution
Unreliable after-sales service



Hidden Dangers

Great security risks

No certification

Non-standard installation & maintenance services



Parameters

		KL1.2 II	KL1.5 II	KL1.8 II	KL2.5 II			
Physical parameters	LED type	Black SMD1010	Black SMD1212	Black SMD1515	Black SMD1515			
	Pixel pitch (mm)	1.25	1.53	1.86	2.5			
	Panel dimensions (W*H*D, mm)	640×360×65	640×360×65	640×360×65	640×360×65			
	Panel resolution	512×288	416×234	344×192	256×144			
	Panel weight (kg)	6	6	6	6			
	Panel material	Die casting aluminum						
	Module size (W*H, mm)	320×180	320×180	320×180	320×180			
	Brightness (nit)	800	800	800	800			
Ph	Refresh rate (Hz)	≥3840	≥3840	≥3840	≥3840			
loto	Grayscale (bit)	16	16	14	14			
Photoelectric parameters	Contrast ratio	5000:1	5000:1	5000:1	5000:1			
tric	Color temperature (K)	3000~12000	3000~12000	3000~12000	3000~12000			
oara	Viewing angle (H/V, °)	160/160	160/160	160/160	160/160			
met	Drive mode	1/32	1/52	1/43	1/32			
ers	AC operating voltage (V)	200~240	200~240	200~240	200~240			
	Power consumption (max./avg., W/m²)	600/200	560/187	520/173	540/180			
	Storage temperature (°C)	- 40~ + 60						
Applica:	Operating temperature (°C)	- 10~ + 40						
	Storage humidity (RH)	10 % ~85 %						
tion	Operating humidity (RH)	10 % ~80 %						
Application parameters	IP rating (front/ rear)	IP40/IP21						
	LED lifetime (h)	100000						
	Panel maintenance type	Fully front						
	Panel installation type	Stacking/ wall-mounting/ hanging						

^{*}Note: It is normal for the power consumption to fluctuate within $\pm 15\%$ due to the influence of the brightness of different batches of lamps. Please refer to the actual situation.



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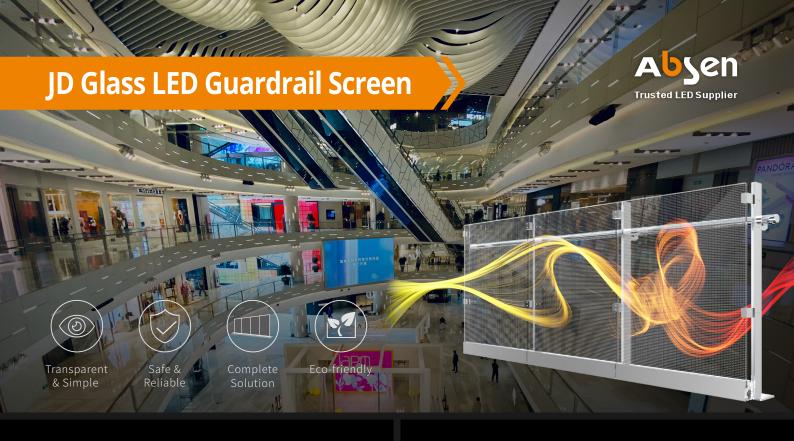
Absen Inc.

7120 Lake Ellenor Drive, Orlando, Florida 32809, USA
T: +1-407-203-8870 E: info@usabsen.com
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Absen GmbH

Hessenring 4c, 64546 Moerfelden-Walldorf (Frankfurt am Main),

Germany
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F: +49 (0) 6105 718941-29 W: www.absen-europe.com



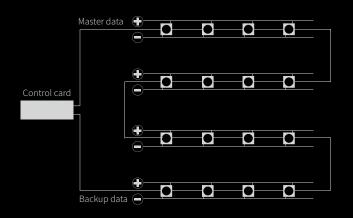
Core technology

Built-in driver Accurate control
Fine structure Stable display effects
True 16-bit gray scale True-to-life color



Two-way drive to secure quality

Two-way driven Drive-IN LED enables data backup signal to work automatically in case of a single point of failure to achieve seamless switching without compromising display effects.



Powerful screen creates the sense of security



Transparent screen to integrate with the guardrail

Transparent is higher than 83%. Integrate with the main body of the guardrail for a simple and beautiful look

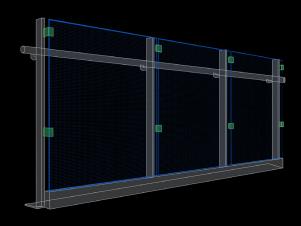


Dynamic displays and vivid colors beyond sensory experiences



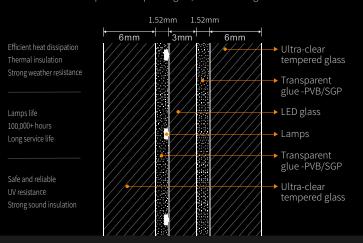
Modular design for easy installation and maintenance

Modular design for quick installation and disassembly to save time and effort

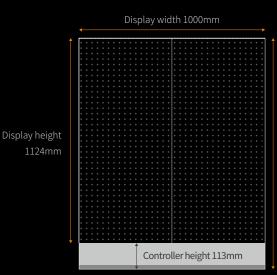


Energy-saving & environmentallyfriendly stable and durable

Special transparent glue, all in one design



Panel size



Installation height

Application

Widely applicable in shopping malls, airports, high-speed railway stations, subway stations, plazas, gymnasiums, squares, etc.





Product parameters

JD10-P Guardrail	Unit	
Built-in driver		
10.42 / 9.8	mm	
3000		
83%		
1000x1124	mm	
59	Kg	
16	Bit	
178/178	o	
800/267	W/m²	
Static scanning	/	
IP30	/	
100-240	V	
	Built-in driver 10.42 / 9.8 3000 83% 1000x1124 59 16 178/178 800/267 Static scanning IP30	



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Thinner panel



High load capacity



Optional sub-frame

Professional floor display

- 2.5, 4.8mm pixel pitch
- 0~20mm height adjustable
- 10%~38% thinner than conventional panel (compared to other products with 130mm thickness)
- Ultra-high load capacity
- Water resistance surface
- Front installation
- Full front maintenance (module, PSU, receiving card, HUB board)

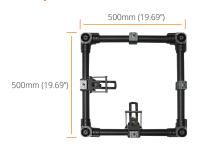


500x500mm (19.69x19.69")



Anchor design for height adjustment

■ Optional sub-frame enables fast installation*



• For 1x1 panel • 3.7kg (8.16lbs)



• For 2x1 panels • 6.3kg (13.89lbs)



• For 2x2 panels •9.9kg (21.83lbs)

■ MR2.5

- GOB(Glue on Board) packaging technology
- Deep black non-reflective surface
- 1000kg/m² load capacity
- 144Hz frame rate (Brompton/NovaStar system)
- 1000nits brightness

■ MR4.8 matte version

- Anti-reflection matte finish
- Perfect black consistency
- 2500kg/m² load capacity
- 251Hz/240Hz frame rate (Brompton/NovaStar system)
- ≤1500nits brightness



■ MR4.8 glassy version

- · Tempered glass finish
- 2500kg/m² load capacity
- 7H surface hardness level
- 1000nits brightness
- MOQ: 500 tiles

■ MR4.8 interactive matte version

- Support up to 1920x1080 resolution
- NovaStar control system
- Anti-reflection matte finish
- 2500kg/m² load capacity
- 1000nits brightness

◀ Product specification

Parameters	MR2.5		MR4.8 matte version		MR4.8 anchor-free matte version (Need to be used with subframe)		MR4.8 glassy version	MR4.8 interactive matte version
Control system	Brompton	NovaStar	Brompton	NovaStar	Brompton	NovaStar	NovaStar	NovaStar
LED type	SMD1515	SMD1515	SMD1921	SMD1921	SMD1921	SMD1921	SMD1921	SMD1921
Pixel pitch (mm)	2.5	2.5	4.8	4.8	4.8	4.8	4.8	4.8
Panel dimensions (WxHxD, mm)	500x500x80 (19.69x19.69x3.15")		500x500x85 (19.69x19.69x3.35")			5″)	500x500x92 (19.69x19.69x3.62")	500x500x85 (19.69x19.69x3.35")
Panel resolution	200x200	200×200	104x104	104x104	104x104	104x104	104x104	104×104
Panel weight (kg)		12 (26.46lbs)				16 (35.27lbs)	12 (26.46lbs)	
Panel material	Die casting aluminum							
Module size (WxH, mm)		250×250						
Brightness (nit)	1000	1000	1500	1000	1500	1500	1000	1000
Refresh rate (Hz)	3840	3840	7680	3840	7680	7680	3840	3840
Grayscale (bit)	15	15	16	14	16	16	14	14
Contrast ratio	1200:1	1200:1	6000:1	1500:1	6000:1	6000:1	3000:1	4000:1
Color temperature (K)	6500							
Viewing angle (H/V, °)	160/160	160/160	140/140	140/140	140/140	140/140	140/140	140/140
Drive mode	1/20	1/20	1/7	1/7	1/7	1/7	1/7	1/7
AC operating voltage (V)	100~240							
Power consumption (max./avg., W/m²)	600/200	600/200	640/214	640/214	640/214	640/214	640/214	640/214
IP rating	IP65/IP54	IP65/IP54	IP65/IP54	IP65/IP54	IP65/IP54	IP65/IP54	IP65/IP54	IP65/IP54
Certification	FCC, ETL, CE, RoHS							

Absen Optoelectronic Co.,Ltd









TSC Series Flexible Display

Pliable and Graceful



Easy to bend for convenient use

A soft module is less than 2cm thick and is pliable up to 120°.

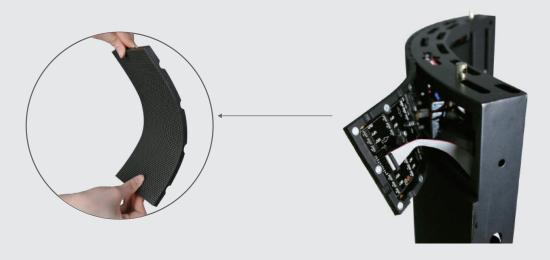
It passed 10,000 folding tests and easily fits all curved surfaces without warping.



Thickness of soft module Weight of one module

Wide angle bending

Bending test



Reliable high-quality product

Composed of layers of quality raw materials, the module uses highly fireproof PCBs and soft bottom housing, thoroughly ensuring its reliability.

LED lamp+ Organic molecular silicone mask*

Flexible PCB ·Class A fiberglass board material ·Only 0.4-0.6mm thick ·Flame resistance meets 94V-0 standard (Soft silicone bottom housing) · Environmentally-friendly flame-resistant special silicone material ·Flame resistance is V-1 grade (Powerful magnets) · Inlay process

Colorful and eye-catching

High contrast ratio and high grayscale for better image effect.



4000:1 contrast ratio

Black surface LED lamps+ soft mask* to effectively enhance the contrast ratio



High grayscale

The image is still clear and detailed even in low brightness





Fine images and distinct dark textures

Blurred image without dark details

* Only for TSC4M and TSC5M

Low electromagnetic radiation

The product has undergone strict radiation testing to reduce its electromagnetic interference with other equipment and objects in its surroundings.

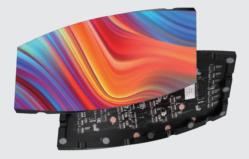
· PCB circuit design meets EMC standards



Supports customization of different shapes

 $Various\ customizable\ shapes\ (concave/convex/wave/cylinder)\ according\ to\ customer\ needs\ to\ help\ customers\ showcase\ their\ creativity.$





Other curved shapes

Ready-to-use panel delivery ensures easy use

Complete ready-to-use panel delivery and strong magnets support fast installation and front/rear maintenance*.



Supports front maintenance of module

No tools required



* Module, power supply, receiving card: Support front/rear maintenance to meet different project needs

Flexible installation



Application scenarios

 ${\sf TSC}\,{\sf Series}\,{\sf can}\,{\sf help}\,{\sf create}\,{\sf a}\,{\sf three-dimensional}\,{\sf effect}\,{\sf and}\,{\sf atmosphere}.$



Malls/shopping centers



Chain stores



Showrooms





Parameters

Model	TSC1.8M	TSC2M	TSC2.5M	тѕсзм	TSC4M	TSC5M
LED type	SMD 1515	SMD 1515	SMD 1515	SMD 1515	SMD 2121	SMD 2121
Module size (mm)	240*120	240*120	240*120	240*120	256*128	320*160
Module resolution	128*64	120*60	96*48	80*40	64*32	64*32
Driving mode	1/32	1/30	1/24	1/20	1/16	1/16
Brightness(nit)	800	800	800	800	800	1000
Viewing angle(H/V,°)	160°/160°	160°/160°	160°/160°	160°/160°	160°/160°	160°/160°
Center bending angle	≤90°	≤120°	≤120°	≤120°	≤120°	≤120°
Application environment	Indoors	Indoors	Indoors	Indoors	Indoors	Indoors
Operating voltage AC100~240, 50/60Hz						
Operating temperature	-10°C-+40°C					
Operating humidity 10%~80%RH						
LED lifetime	ED lifetime 100,000 hours					

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