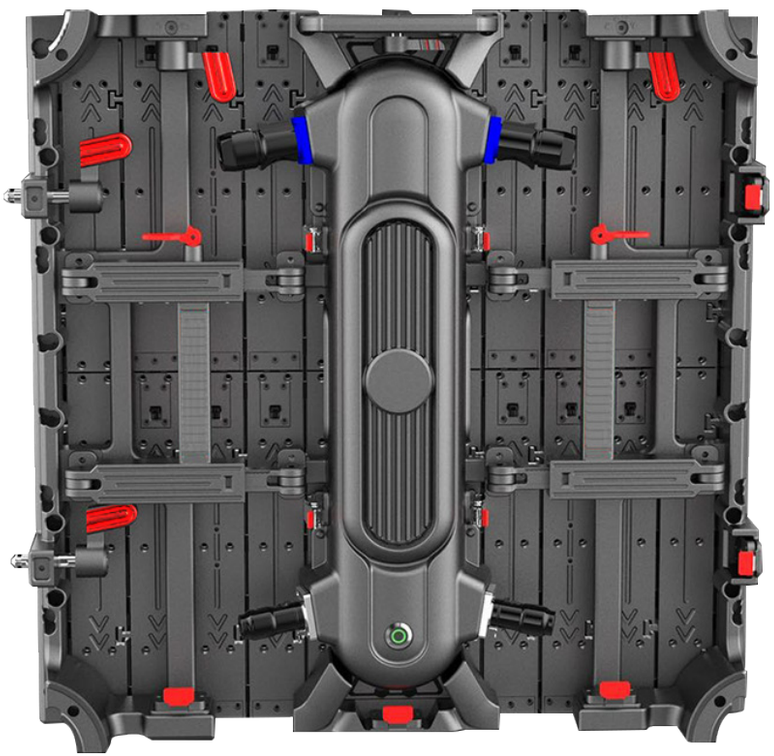
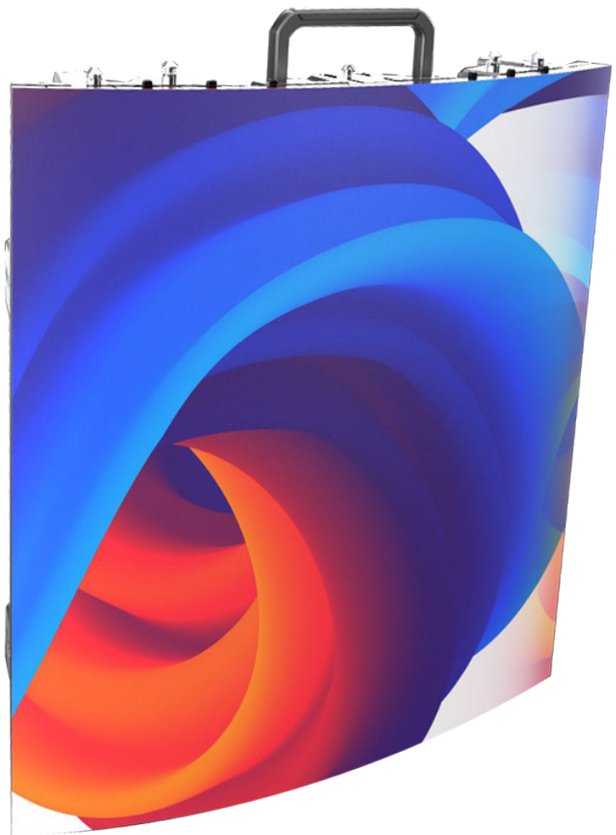
CRTOP





LED Flexible Screen

PRODUCT SPECIFICATION

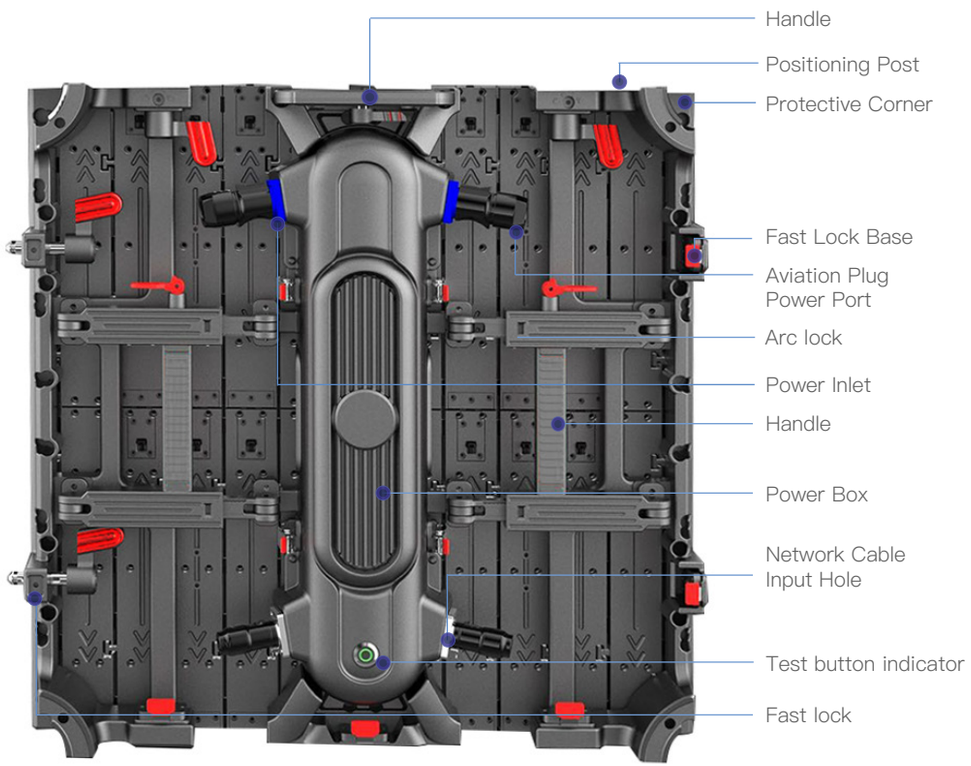
SHENZHEN CRTOP TECHNOLOGY CO.,LTD	Add.: 1001, Building 1, Guole Technology Park, No. 1 Lirong Road,Longhua District, Shenzhen, Guangdong, China.	Version:1.0
Website (INT): WWW.CRTOP-LED.COM		Date:February 2025

* Technical specifications are subject to change without prior notice. Please contact our sales representative for the latest information.

CONTENTS

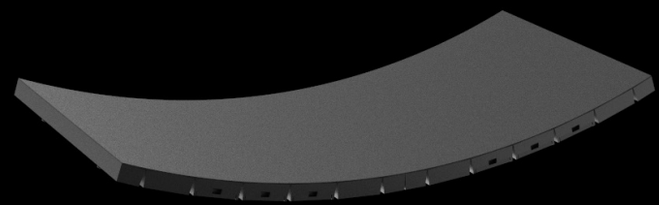
Product Information

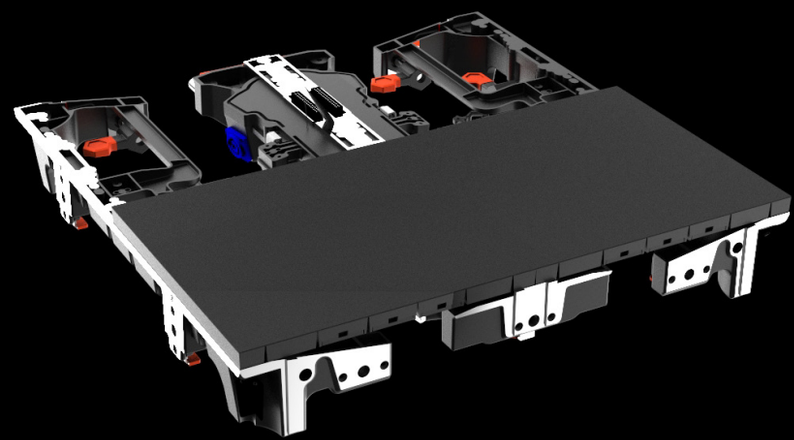
- Model:CRTOP
- Cabinet size : 500×500×71mm
- Module size: 250×250mm
- Weight:7.5kg
- Indoor (mm): P2.6 / P2.97 / P3.91
- lamp: SMD 1921
- Moduole structure:lamp & driven in 1
- White balance brightness: 1000nits
- Input: AC100–240V 50/60HZ
- Maintenance Method: Rear maintenance
- Material: Die–cast aluminum
- Usage: Indoor
- Curving (concave&convex):
  (±22.5°±20°±17.5°±15°±12.5°±10°±7.5°±5°±2.5°± 0°) optional

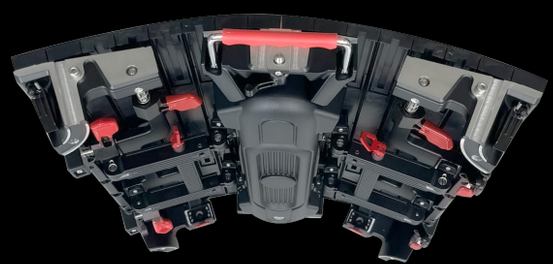


Curved Lock System

- Hybrid Configurations: Compatible with mixed screen types.
- Auto-Retractable Ball Bearings: Self-adjusting mechanism for smooth assembly.
- Flight-Case Protection: Secondary safeguards for shipping.

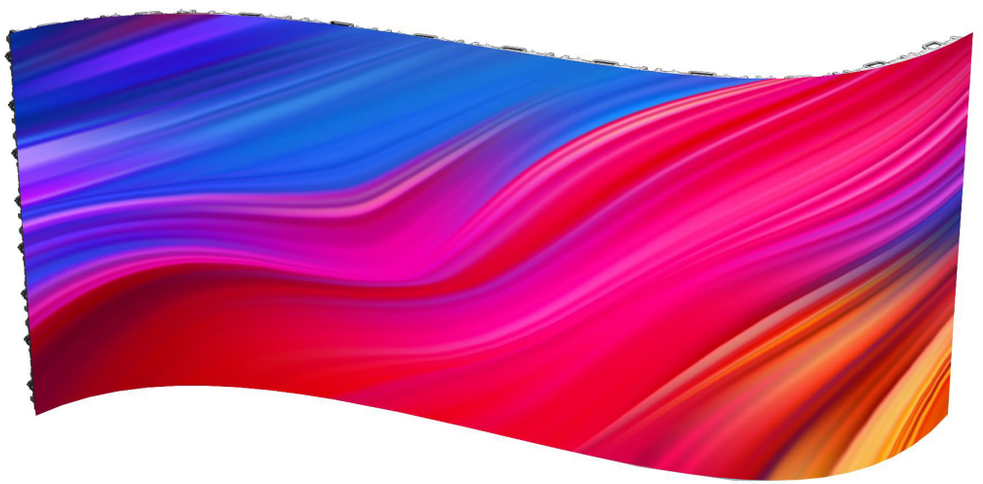






1. Adjustable Arc (0–45°): Each module supports both， inner and outer arc adjustments (0–45°). Eight cabinet form a full circle with a minimum diameter of 1.21 meters.
2. Single–Side Arc Lock (0–22.5°): Features a unilateral arc adjustment lock (0–22.5°) and enables， S–curve configurations (inner/outer arcs) for flexible setups.
3. Stainless Steel Locks: Enhanced tensile strength and seamless alignment, compatible with， flat/curved/right–angle screens for hybrid configurations.
4. Three–Point Rigging Locks: Top and bottom triple–lock system ensures horizontal consistency and stable load–bearing capacity during suspension.
6. Modular Rear Cover: Plug–and–play design allows 30–second fault resolution，(e.g., power/card issues) by swapping spare covers via four quick–release latches.
7. Anti–Collision Bumpers: Bottom protrusions protect LED modules from impacts and keep them suspended，when placed on the ground.
8. Corner Guards: Reinforced edges and flight–case–compatible design provide secondary impact protection during transportation.
9. Lightweight & Durable：with robust materials ensuring flatness, rigidity, and deformation resistance.

Let me know if further refinements are needed!



Scope Of Application

- Suit for advertisement, stadium, exhibition, TV–Show, mansion, video wall, shopping mall, banks, schools, bus station, airport, gym, market, factories, monitoring centers, hospital, bar etc.

SPECIFICATION

Technical parameter：(T=25℃)

Application	Indoor			
Pixel Pitch	2.6mm	2.97mm	3.91mm	
Pixel Structure	3IN1 SMD	3IN1 SMD	3IN1 SMD	
Pixel Density (dots/㎡)	147928/m^2	113367/m^2	65410/m^2	
Module Resolution (W×H)	96(W)X96(H) dots	84(W)X84(H) dots	64(W)X64(H) dots	
Module Dimension (mm)	250mm x 250mm	250mm x 250mm	250mm x 250mm	
Cabinet Dimension (mm)	500x500x71mm			
Weight (kg) / set	7.5kg			
Material	Die-cast Aluminum			
Maintenance type	Rear maintenance			
Certification	CCC, CE, ETL			
Single Point Brightness	support			
Chroma Correction	support			
White Balance Brightness	1000 cd/㎡			
Color Temperature	2000-12500K Adjustable			
Viewing Angle (H/V°)	H: 140° | V: 120°			
Optimal Viewing Distance (m)	1-4 meters			
Brightness Uniformity	⩾97%			
Contrast Ratio	⩾5000:1			
Signal Processing Bits	16 bits*3			
Gray Scale	12-14Bit			
Control Distance	Cable: 100 m,Optical Fiber: 10km			
Drive Mode	Constant current source driver			
Frame Rate	⩾60HZ			
Refresh Rate (Hz)	⩾3840HZ			
Way to Control	Synchronize			
Brightness Adjustment Range	0-100Stepless Adjustmen			
Continuous Operation Time	⩾72Hours			
Life Span	>100,000Hours			
IP Level	IP20			
Operating Temperature (℃/RH)	-20 ℃ to 50 ℃			
Operating Humidity (℃/RH)	10 %- 80% RH No Condensation			
Storage Temperature (℃/RH)	-20 ℃ to 60 ℃			
Operating Voltage	DC 4.2-5V			
Input Voltage (V)	AC200-240V 50/60 HZ			
Maximum Power Consumption	700W/㎡			
Average Power Consumption	260W/㎡			

Tests

Categories	Item	Reference Standard	Experimental Conditions	Duration Time	Receiving Standard
LED Lamp					
Environmental Experiments	Temperature Cycle	JESD22-A104-A	-40℃~25℃~100℃~25℃30min , 5min, 30min, 5min	Cycle 100 times	0/50
	Cold & Heat Shock	JESD22-A106	-40℃~100℃30min,30min	Cycle 100 times	0/50
	High temperature storage	JIS C 7021 (1977)B-11	Ta=60℃ RH=90%	1000 hours	0/50
Lifetime Test	Ambient temperature lifetime tests	JESD22-A108-A	Ta=25℃Test Conditions: Power on and lit	1000 hours	0/50
	High temperature lifetime tests	JESD22-A101	Ta =85℃ RH=85%Test Conditions: Power on and lit	1000 hours	0/50
Mechanical Vibration Experiments	Mechanical Vibration	MIL-STD-883 Method 2007	20G minutes, 20 to 2000Hz4 cycles, 4 minutes. Each,X,Y,Z	--	0/50
LED Finished Unit Cabinet					
Environmental Storage Experiment	Low temperatures torage tests	GB2423.2	Storage at (-40±2)℃ for 4h, recovery at room temperature for 4h,normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
Ageing Test	High temperatures torage tests	GB2423.2	Storage at (60±2)℃ for 4h, recovery at room temperature for 4h, normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
	Ambient temperature ageing test		Ta=25℃72-hour uninterrupted power-on display playing	72 hours	0/50
	High temperature ageing test	GB2423.2-89	Check every hour for 8h at (40±2)℃.Normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
Mechanical Vibration Experiments	Mechanical Vibration	GB6587.4-86	Vibration frequency 5HZ-55HZ-5HZ,amplitude 0.19mm, 5 minutes	5 min	0/50

Using environment

- This product is an outdoor display; avoid using it in high temperature, high acid/alkali/salt environments.
- Keep away from flammable materials, gases and dusts; the normal operating temperature of this product is –20~50℃, the optimal ambient temperature is –10~40℃.
- Avoid storage in high temperature, high humidity, high acid/alkali/salt environment; keep away from flammable materials and gases.
- Avoid strong collisions and sharp objects during transport.

Cleaning

- If cleaning the module surface, please use a soft bristle brush and brush gently. Do not use any liquid substances to clean the surface of the LED module, as this may damage the SMD–LED.

Operation

- This product is DC +5V power supply (working voltage: 4.5~5.2V), AC power supply is forbidden; power terminals are forbidden to be reversed.
- If the product is faulty during the warranty period, please send it back to our company for repair, or repair it under the guidance of our after–sales staff.
- During dismantling/assembly of the product, be sure to operate with care and avoid tools hitting the product.
- lightning and static protection should be done during operation and use; the box and steel structure should be earthed
- The product should not be switched on and off continuously during use; at least 1 minute should elapse between operations
- This product should not be turned off for a long time, it is recommended to use it once in half a month with 4 hours of power on; in high humidity environment, it is recommended to use it once in a week with 4 hours of power on.
- This product is not allowed to play the highest brightness all–white screen for more than half an hour, it is recommended to play dynamic video mainly.

Moisture-proof and storage requirements

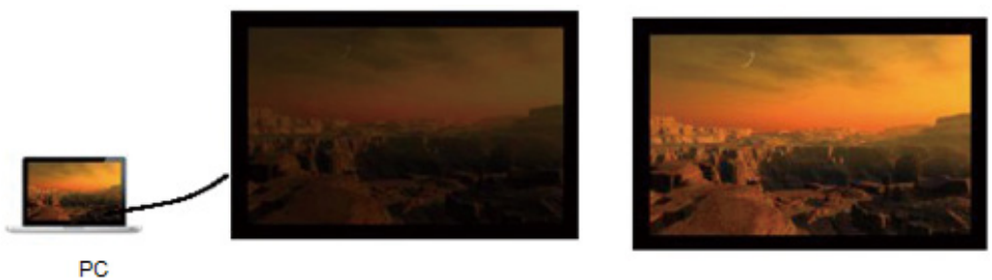
1. After opening the package, the product must be stored in the temperature <30℃ and humidity <60% environment.

2. If the screen is not used for more than 3 days, please use the pre-lighting method first: 30%–50% brightness for 4–8 hours, and then adjust it to normal brightness (80%–100%) to light up the screen, for eliminating the moisture and normal operation.

3. If the screen is not used for more than 7 days, please use the pre-lighting method first: 30%–50% brightness for more than 12 hours, and then adjust it to normal brightness (80%–100%) to light up the screen, for eliminating the moisture and normal operation.

Ø More than 3 days, LED screen (30%–50% in brightness) pre-lit 4–8 hours;
Ø More than 7 days, LED screen (30%–50% in brightness) pre-lit more than 12 hours;

The operation process is as follows:



Pre-light

Normal lighting

CRTOP
TOPSHINE technology

Website (INT): WWW.CRTOP-LED.COM

SHENZHEN CRTOP TECHNOLOGY CO.,LTD

BEIJING Chontdo Optoelectronics Co., Ltd. (Headquarters)
Add: JinYi Street, GaoLiYing Town, ShunYi District, BeiJing(101300)

SHENZHEN CRTOP TECHNOLOGY CO.,LTD
Add.: 1001, Building 1, Guole Technology Park, No. 1 Lirong Road, Longhua District, Shenzhen, Guangdong, China.

TOP SHINE LTD.
Add.: Avenue des désirs 21, 1140 Evere Belgium