

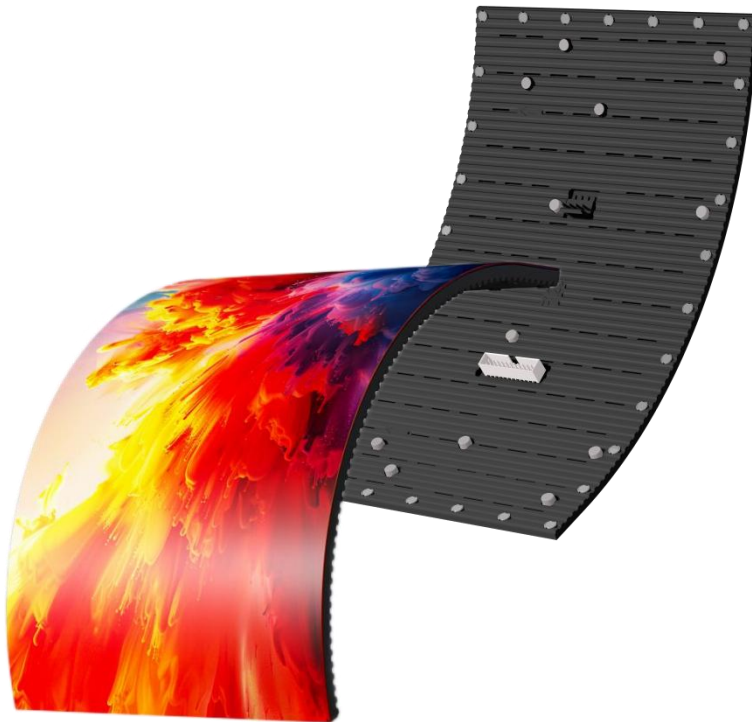
Flexible COB display

FM093-45S

FM125-45S

FM156-54S

FM187-45S

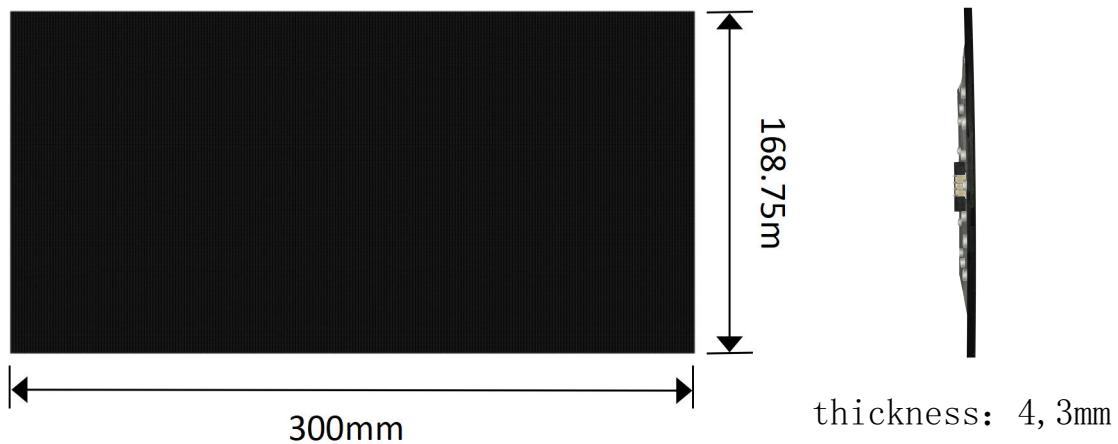


1.Product introduction

COB integrated display technology: COB packaging uses a micro-assembly process to directly solid-crystal welding the LED chip Connect to the PCB board, and then use the packaging glue to fully seal the LED chip.

COB is used in micro-pitch, small size and flexible design, with high resolution and high contrast、High protection, very low heat generation, flexible installation and other advantages, suitable for fields with high requirements, to meet high End customer demand for quality.

2.Product size



3.Product features

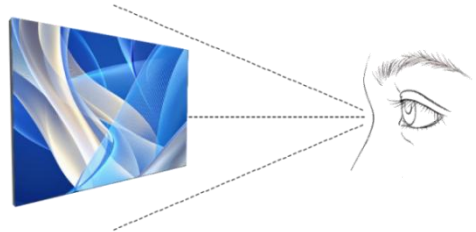
- High brightness: using a large brand chip, the brightness is higher

1200~1500cd/m²。

- High contrast: **≥30000:1**

High color reproduction, high grayscale, high refresh, stable brightness, and super clear picture, the colors are real.

- Wide viewing angle: the horizontal viewing angle is up to 160° ,and the vertical viewing angle is up to 160°



- Ultra-thin and thin: the thickness of the module is only 4.3mm, which makes the module softer and takes up less space.



- Co-yin design scheme: Flip-chip co-yin COB module, good stability, low energy consumption, low light failure, and extended service life, The maximum operating temperature is only balanced with somatosensory, high brightness and low power consumption. Energy saving 30%



- High protection and high reliability the surface of the module is IP65, anti-static, anti-collision, dust-proof, moisture-proof, and improve product stability



- Easy to clean: the surface is smooth and hard, just wipe with a damp cloth to dust



5. Technical parameters

Model	FM093-45S	FM125-45S
Number of scans	45S	45S
Module size	300*168.75	300*168.75
Box size	Depends on Structure	Depends on Structure
Cabinet resolution	320*180(per module)	240*135(per module)
LED Arrange	1R1G1B	1R1G1B
Pixel density /m ²	1,137,778	640,000
LED type	Mini Chip LED	Mini Chip LED
Grayscale (Bit)	13-22Bit	13-22Bit
Contrast	30000:1	30000:1
Brightness cd/m ²	1200	1200
Modules/box	customized	customized
Box material	customized	customized
Viewing angle	160/160	160/160
Average PC/m ²	~150W	~140W
Max PC /m ²	~320W	~330W
Service life	at 50% brightness, 100,000 hours	
Temperature	~ -10°C to 45°C	
Humidity	10% ~ 90%	
Refresh rate	3840HZ (IC drivers can change to 7680HZ)	
Operating system	Windows	
Receiving card	Novastar/ Color Light	
Certification	CCC, CE, ROHS, EAC	

Model	FM156-54S	FM187-45S
Number of scans	54S	45S
Module size	300*168.75	300*168.75
Box size	Depends on Structure	Depends on Structure
Cabinet resolution	192*108(per module)	160*90(per module)
LED Arrange	1R1G1B	1R1G1B
Pixel density /m ²	409,600	28,800
LED type	Mini Chip LED	Mini Chip LED
Grayscale (Bit)	13-22Bit	13-22Bit
Contrast	30000:1	30000:1
Brightnesscd/m ²	1200	1200
Modules/box	customized	customized
Box material	customized	customized
Viewing angle	160/160	160/160
Average PC/m ²	~150W	~150W
Max PC /m ²	~300W	~310W
Service life	100000 Hours	
Temperature	~ -10°C to 45°C	
Humidity	10% ~ 90%	
Refresh rate	3840HZ (IC drivers can change to 7680HZ)	
Operating system	Windows	
Receiving card	Nova star/ Color Light	
Certification	CCC, CE, ROHS, EAC	

6.Flexible application scenarios



7.Installation diagram

01 Cylindrical Structure Installation



Flexible module



Cabinet Installation



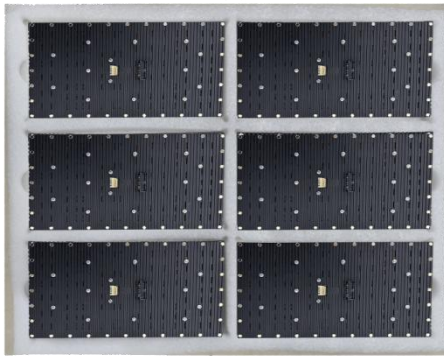
Install the flexible
module into the cabinet



Final

8.Product packaging

Module size, mm	Box size, mm	Quantity	Weight (kg)
300*168.75	625*460*240	24	7



9.Installation details

1. Wear anti-static gloves during installation, and take the module lightly.
2. It is forbidden to use hard or sharp objects to wipe the surface of the product.
3. It is forbidden to violently knock, tear or repeatedly bend the module.
4. It is forbidden to tear and pull violently, and gently pull and plug when unplugging the wire.
5. It is recommended to use a sheet metal structure box (installed after spraying) to avoid galvanized iron square pipes (which cause unevenness).
6. The display screen is kept away from water vapor sources such as air conditioners and pools, and it is forbidden to splash water or face the air-conditioning outlets directly.
7. The modules need to be isolated by protective compartments, and stacking without compartments is prohibited.
8. Working environment: temperature $-20^{\circ}\text{C}\sim 40^{\circ}\text{C}$, humidity 20%~85%
9. Storage conditions: temperature $\leq 30^{\circ}\text{C}$, humidity $\leq 65\%$
10. The bending angle of the module is between 158° and 180° , and the module is prohibited from bending violently and repeatedly.
11. In order to ensure product performance, please do not disassemble or repair COB-encapsulated products without professional training personnel to avoid secondary damage to the product. It is recommended that you contact the authorized technical service team for professional treatment.
12. Product failure and damage caused by non-compliance with the relevant precautions in the installation precautions manual, or human factors, are not covered by the manufacturer's warranty. Please keep the relevant information and accompanying attachments safe. If you have any questions, please contact our company.

