VISUALPOWER VFR SERIES CURVED LED DISPLAY W300×H168.75mm Flex +Rigid Module

1. Flex LED Display Module Introduction

● Flexible LED display screen module, ingeniously designed with the concept of soft light strips to create a flexible LED module; The flexible LED display module can assemble curved, cylindrical, curved and other displays according to installation requirements, which is a technological improvement with outstanding characteristics and display progress. Compared with the traditional plane hard mold group, it injects flexible and large angle concept design, breaks the traditional technical system,

shows flexible and colorful curves, conquers various artistic shapes with "softness", creates wonderful vision for the audience, and vividly presents more colorful visual effects!
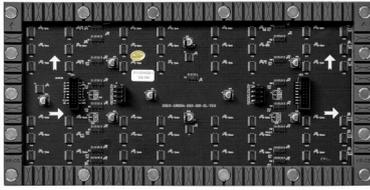
2. Main Features

- The optimal size design is 300mm x 168.75mm, with low current, low heat, high contrast, and high refresh rate;

- The module thickness is only 7.5mm, with an ultra-thin design that takes up little space;

- Support the optional built-in calibration data storage chip for single mode groups, and support automatic data readback;

- The optimal golden ratio size is 16:9, supporting 2K/4K/8K/point-to-point resolution;

- The W300×H168.75mm soft module series is suitable for artistic forms such as cylindrical screens, spiral screens, wavy screens, ribbon screens, application scenarios, planning museums, science museums, urban planning museums, art museums, creative centers, etc.;

- The box structure adopts high-strength sheet metal sandblasted iron box, with a unique segmented splicing process, effectively reducing the splicing gap of the screen body;
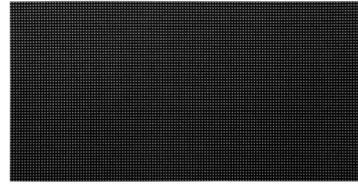
- The module adopts a strong magnetic adsorption installation, with adjustable height of magnets to improve the overall flatness of the screen. It is designed for power front maintenance and can be installed in special scenarios. With specific tools, it can meet the needs of front maintenance;

- The PCB board is made of flexible soft board, and the bottom shell is made of silicone material, which has good flexibility and eliminates static electricity

- The PCB board uses copper pillar welding and back glue to form a lockable iron base with the bottom shell, making the module steadier and more reliable;

- The single board is equipped with 18 magnets, each with a magnetic content of up to 2000 GS, solving the problem of common soft module debonding and warping, effectively improving the flatness and effectiveness of the screen body:

3.Module Appearance
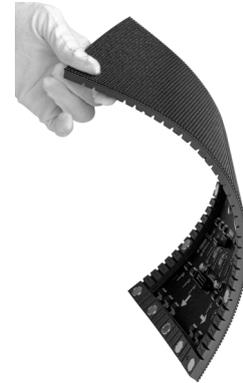

Module back view

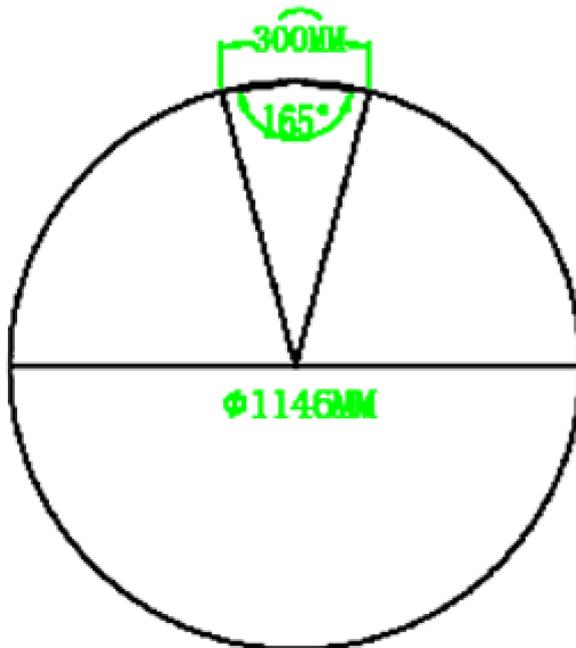module front view

Magnet bolts
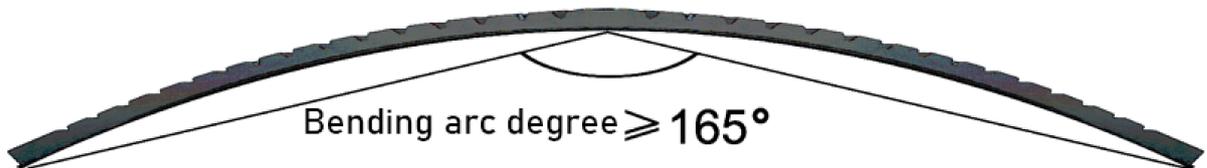

arc shape

concave

convex

4.Flex Module bending arc degree

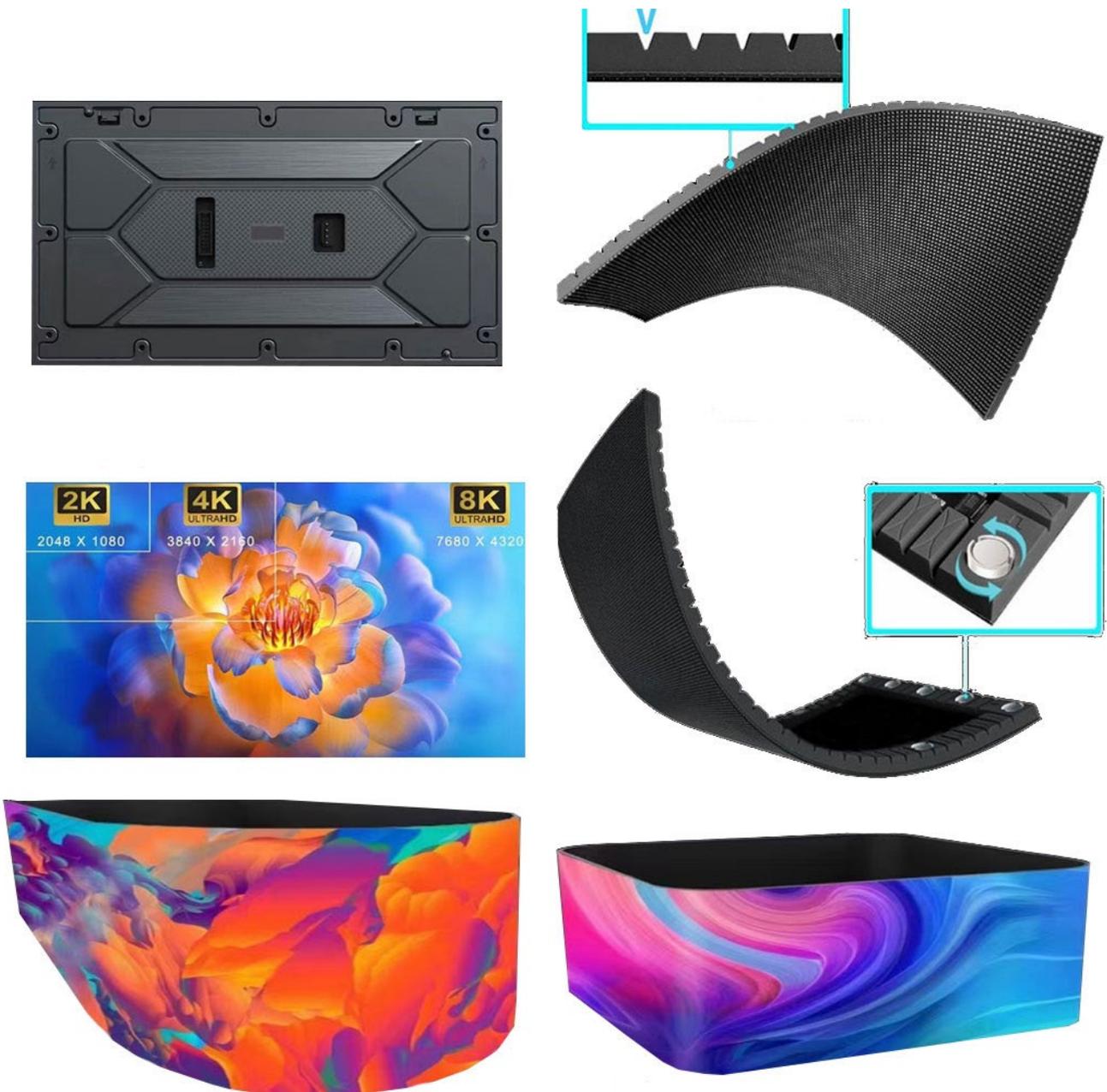- 12PCS module to form a column with diameter minimum 1146mm.

Minimum bending diameter

- Module bending arc diagram, convex or concave ≥165°

Minimum Bending arc

5.Rigid and flexible module combination design

With same size rigid modules and flexible modules combinatio, it can ensure the straight display area surface flat and even and without deformation or falling downwards.

6.Specifications

	Item	P1.25	P1.5625	P1.875	P2.34
Technical	Pixel configuration	1R1G1B（full color)	1R1G1B（full color)	1R1G1B（full color)	1R1G1B（full color)
	LED lamp type	SMD 1010 CHIP	SMD 1212	SMD 1515	SMD 1515
	Pixel density（pixels/㎡）	640000	409600	284440	182041
	Module size（mm）	300X168.75X7.5 （LxWxD)	300X168.75X7.5 （LxWxD)	300X168.75X7.5 （LxWxD)	300X168.75X7.5 （LxWxD)
	Module resolution	240X135	192X108	160X90	128X72
	scan number	45scan	54scan	45scan	36scan
	Driver IC type	PWM	PWM	PWM	PWM
	Refresh（Hz）	3840hz	3840hz	3840hz	3840hz
	frame frequency（Hz）	60hz	60hz	60hz	60hz
	gray scale（bit）	13-14bit	13-14bit	12-13bit	12-13bit
	Smallest diameter	1146mm	955mm	764mm	573mm
	bend arc degree	≥165°	≥162°	≥158°	≥150°
	HUB port type	HUB320(no cascade)	HUB75(no cascade)	HUB75(no cascade)	HUB75(no cascade)
	Module bottom frame material	silicon rubber	silicon rubber	silicon rubber	silicon rubber
	Module net weight（g/PCS）	280g	280g	290g	250g
	flatness（mm）	≤0.3 mm	≤0.3 mm	≤0.5 mm	≤0.5 mm
	IP rating	IP30	IP30	IP30	IP30
	Installation and service way	front or back	front or back	front or back	front or back
Optical	brightness（nits）	600-650cd	600-650cd	700-750cd	700-750cd
	color temperature（K）	10000-12000 K adjustable	10000-12000 K adjustable	10000-12000 K adjustable	10000-12000 K adjustable
	coordination	X:0.2500 Y:0.3000 ±0.01	X:0.2500 Y:0.3000 ±0.01	X:0.2500 Y:0.3000 ±0.01	X:0.2500 Y:0.3000 ±0.01
	Horizontal/Vertical viewing angle	X:160° / Y:140°	X:160° / Y:140°	X:160° / Y:140°	X:160° / Y:140°
	Contrast ratio	≥6000:1	≥6000:1	≥5000:1	≥5000:1
Electrical	module Working voltage DC（V）	5V	5V	5V	5V
	Module Max current DC（A）	4.5A	4.2A	4A	4A
	Module Max. power（w/PCS）	22.5 w	21 w	20w	20 w
	Input voltage AC（V）	110-220 V	110-220 V	110-220 V	110-220 V
	Max. Power consumption（w/m2）	450w	420w	400 w	400 w
	Ave. Power consumption（w/m2）	128 w	120 w	115 w	115 w
Usage	Life span typical（h）	100 000 h	100 000 h	100 000 h	100 000 h
	working temperature（℃）	-20—60℃	-20—60℃	-20—60℃	-20—60℃
	working humidity（RH）	20%—75%RH	20%—75%RH	20%—75%RH	20%—75%RH

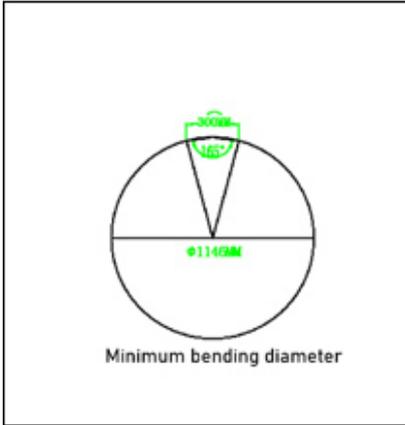# 7.Installation

Cabinet reference

Cabinet without module

cabinet with module

Installation precautions:

Minimum diameter

suggest to use iron cabinet, not simple frame
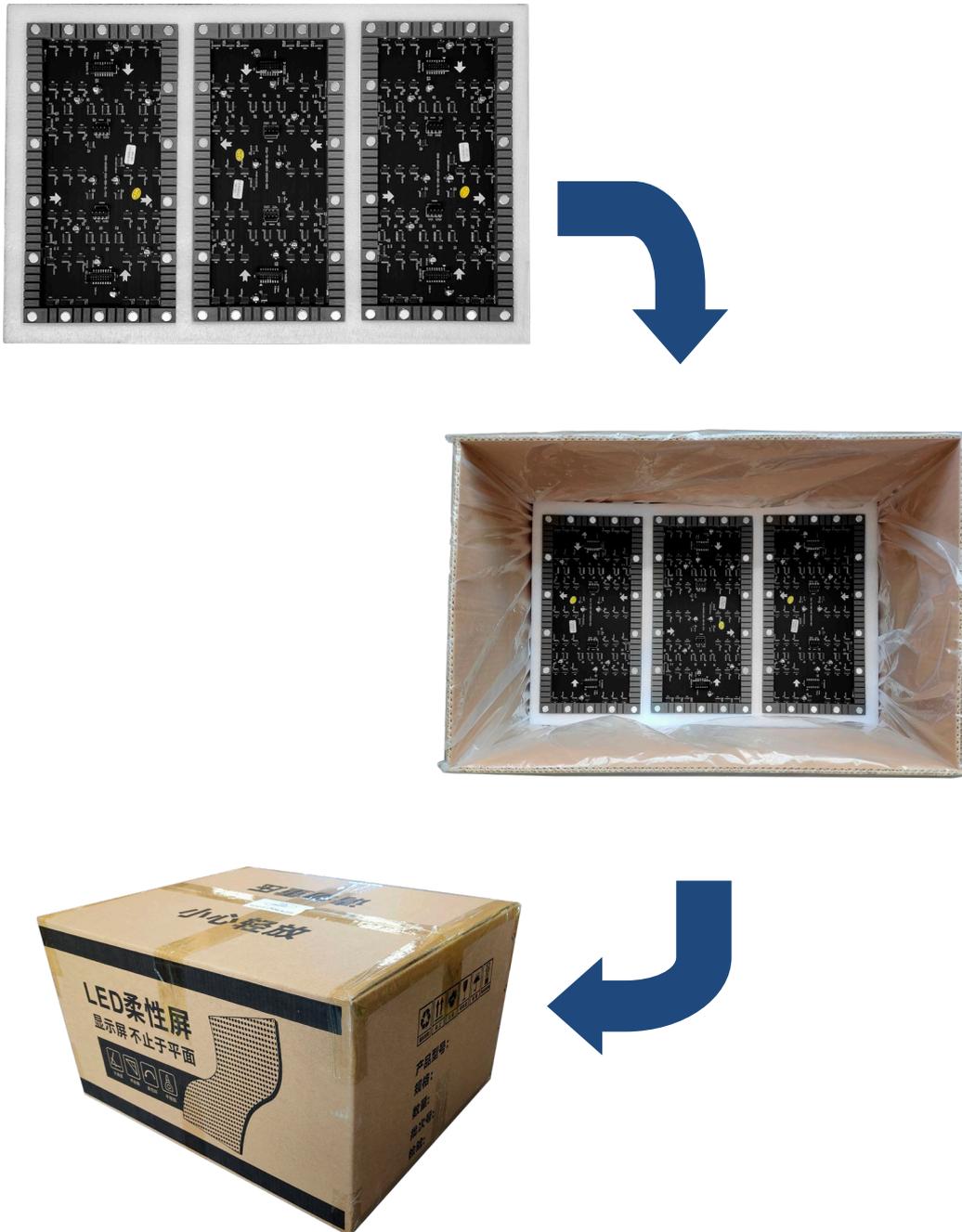

Do not bend too hard

do not pull the PCB edge

Specially designed vacuum suction tool is suggested

Delivery and packing

The modules and cabinets are suggested to be packed separately for good protection, and front installation.

Packing size：601*348*445MM，45pcs module/CTN, G.W:15KGS/CTN