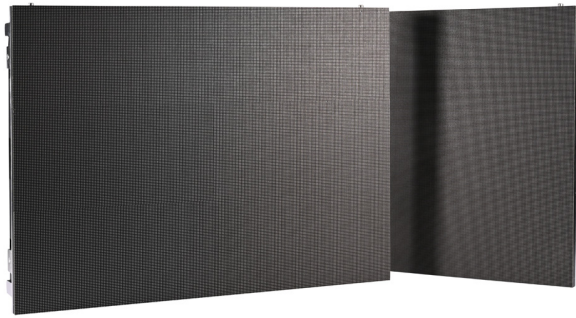




**VWX-COB-FPP**



### Parameter

Pixel pitch(mm)	0.78	0.93	1.25	1.56		1.87
Pixel technology	Real pixel		Virtual-real combination			
Module size	150*168.75	300*168.75mm				
Resolution	192*216	320*180	240*135	192*108		160*90
Scanning method	1/54	1/54	1/60	1/27	1/54	1/45
White balance brightness	600nit			1200nit	600nit	600nit
Pixel density	1638400	1137777	640000	409600		28444
Control system	Novastar three-in-one					
Cabinet size	600*337.5mm					
Refresh rate	≥3840Hz					
Contrast ratio	1000:1					

## Low Gray High Refresh For Eye Comfort

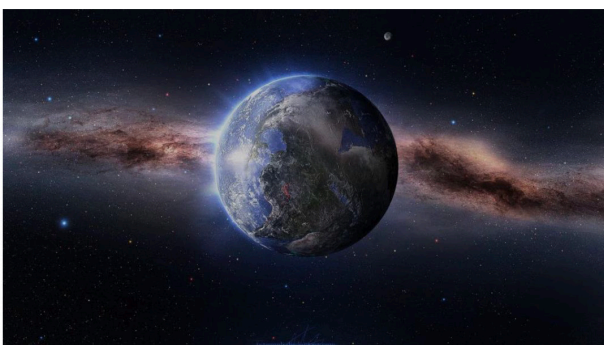


- Although dithering algorithms can enhance accuracy in low gray brightness, they may still cause flickering issues.
- Additionally, insufficient refresh rates at low gray levels result in noticeable flicker, making viewing uncomfortable.



- The PAM driving solution allows for finer brightness control at low gray levels without flickering.
- By reducing the refresh rate to a certain extent and using PAM driving technology, flickering can be effectively suppressed. With 64 gray levels achieving up to 3840Hz refresh rate, true low gray high refresh performance can be achieved, providing a more eye-friendly viewing experience.

## Peak Brightness Enables SDR Video sources To Be Processed Into HDR-Level Display Effects



**High Brightness :** Through the PWM+PAM driving mode, the brightness of the screen can be increased

**Low Grayscale:** It can make the screen gray brightness lower, so that the screen can meet the requirements of HDR

**HDR Effect:** The peak brightness function can be used to adjust the brightness at the pixel level to make the screen present the HDR effect.

**Comfortable Viewing:** Dynamic recognition of playback content, no need to manually switch scenes, more comfortable viewing experience.

## Dynamic + Black Screen Energy Saving, Reducing Operating Power Consumption



**Dynamic Energy Saving:** Automatically detects video content and dynamically adjusts power consumption, reducing operating power consumption by at least 20%. In black screen mode, power consumption can be reduced by approximately 50%.



Accurate grayscale, with grayscale curves aligning closely

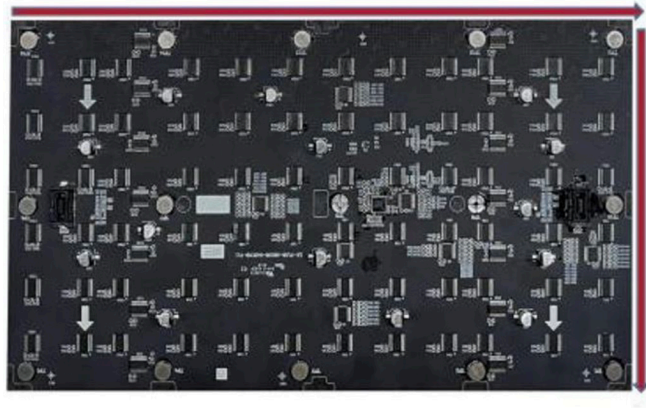


Inaccurate grayscale, with grayscale curves not aligning

## Low Brightness and high grayscale, making subtle details in low gray level clearly visible

the human eye is more sensitive to low brightness levels. The TBS driver chip allocates more grayscale to the low brightness section. When the brightness is reduced, the maximum white screen brightness decreases by 50%. However, the Tbs driver IC maintains grayscale accuracy even at lower brightness levels, ensuring high grayscale performance in low brightness.





### Higher Accuracy

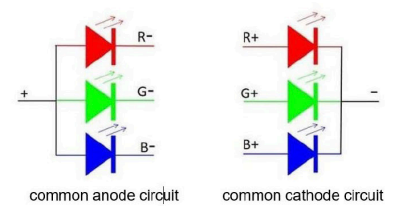
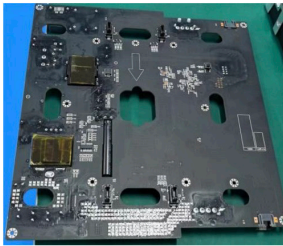
The finished product is cut by high precision CNC equipment with an accuracy of  $\pm 5\mu\text{m}$  (the tolerance of conventional product PCB is  $\pm 75\mu\text{m}$ )

### Seamless assembly

There are no bright or dark lines when assembled (the size is close to the theoretical size for splicing)

### Higher Flatness

CNC processing on the backside of PCB to reduce the height difference of splicing and reduce bright lines.



### Three-in-one

HUB board + power supply + control card three-in-one

### Hard connection

Easy installation, convenient assembly and disassembly, completely wireless design

### Enhanced heat dissipation

Thermal conductive silicone is applied between the three-in-one board and the cabinet to enhance heat

### Energy-saving

The 3.8V energy-saving power supply saves 24% more energy compared to the conventional 5V power supply

### Power-efficient core

The 0.78 and 0.93 modules use HUB board  
+ A8S PRO + common

**Ultra-wide Viewing Angle Ensures That All Viewers Can Capture Vivid Images**



