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Product Introduction of Fantaview Micro OLED

First, 0.71 Inch (FM01 Series Products)

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FPC type of display module

COB type of display module

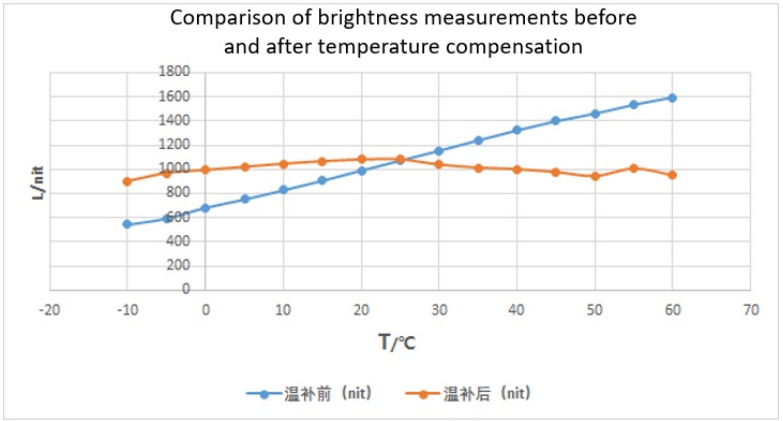
FM01 series products：The resolution is 1920*1080, the display area size is 0.71 inch, the pixel size is 4.22um*4.02um，and FM01 series products have FPC type and COB type of display module.

Because of the excellent brightness and color gamut, FPC type of display module is mainly used in MR glasses, and COB type of display module is mainly used in the field of observation and aiming.

Product Characteristics

- Refresh rate：25Hz~60Hz
- Large size, high resolution, large FOV
- Supporting horizontal/vertical mirror image, and supporting arbitrary adjustment of display position and resolution
- **Automatic calibration function for temperature, brightness, and gamma, ensuring consistency of display in full temperature**

Series of product	FM01
Type of pixel	Hexagon RGB
Grayness level	256
Hardware interface	I²C+MIPI（2/3/4 lane）
Brightness specification	200nit~1500nit 205mW~520mW
Working temperature	-40℃~+65℃



Second, 0.39 Inch (FM02 Series Products)

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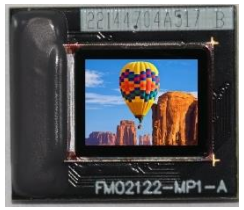

COB type of color display module

COB type of single red display module

COB type of single green display module

FM02 series products: The resolution is 1024*768, the display area size is 0.39 inch, the pixel size is 7.8um*7.8um, and FM02 series products have different color of COB type of display module.

Because of the ultra-low power consumption and high stability of the product, COB type of display module is mainly used in the field of observation and aiming.

Product Characteristics

- Refresh rate：25Hz~120Hz
- Supporting low power consumption mode (The measured minimum power consumption in infrared mode is 30mW)
- Color space conversion, adjustable brightness
- Built in gamma correction function and brightness compensation function at all temperatures

Series of product	FM02		
Color	Color	Single red	Single green
Type of pixel	Bar shaped RGB		
Grayness level	256		
Hardware interface	I²C+RGB I²C+YCbCr		
Brightness specification	250nit~3000nit 65mW~300mW	250nit~10000nit 50mW~200mW	1000nit~50000nit 45mW~950mW
Working temperature	-40℃~+65℃		

Third, 0.39 Inch (FM04 Series Products)

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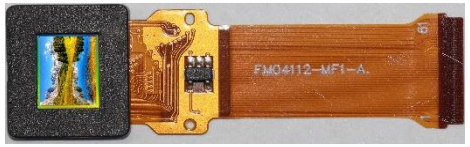
COB type of display module



FPC type of display module

FM04 series products: The resolution is 1024*768, the display area size is 0.39 inch, the pixel size is 7.8um*7.8um, and FM04 series products have COB type and FPC type of display module.

The interface of COB type of product is MIPI, which is easy to design driving scheme

The shape of FPC type of products is compatible with the shape of Sony's 0.39 inch product, and the structure of FPC is simple, making it easy to design and assemble the entire machine

Product Characteristics

- Refresh rate： 25Hz~120Hz
- Color space conversion, adjustable brightness
- Built in gamma correction function and brightness compensation function at all temperatures

Series of product	FM04	
Type of product	COB type of product	FPC type of product
Type of pixel	Bar shaped RGB	
Grayness level	256	
Hardware interface	I²C+MIPI（2/4 lane）	I²C+RGB I²C+YCbCr
Brightness specification	100nit~500nit 96mW~135mW	300nit~500nit 85mW~110mW
Working temperature	-40℃~+65℃	

Fourth, 0.6 Inch (FM03 Series SVGA Products)

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COB type of color display module

COB type of single green display module

FM03 series products: The resolution is 800*600, the display area size is 0.6 inch, the pixel size is 15um*15um, and FM03 series products have color and single green COB type of display module.

FM03 series products can be compatible with hardware of products of the same specifications as Guo Zhao Optoelectronics and Olightek

Product Characteristics

- Refresh rate： 25Hz~120Hz
- Color space conversion, adjustable brightness
- Built in gamma correction function and brightness compensation function at all temperatures

Series of product	FM03	
Color	Color	Single green
Type of pixel	Bar shaped RGB	
Grayness level	256	
Hardware interface	I²C+RGB I²C+YCbCr	
Brightness specification	200nit~1500nit 90mW~350mW	500nit~20000nit 65mW~330mW
Working temperature	-40℃~+65℃	

Fifth, 0.61 Inch (FM06 Series XGA Products)

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COB type of color display module

COB type of single white display module

COB type of single green display module

FM06 series products: The resolution is 1024*768, the display area size is 0.61 inch, the pixel size is 12um*12um, and FM06 series products have COB type of color display.

Product Characteristics

- Refresh rate： 25Hz~120Hz
- Color space conversion, adjustable brightness
- Built in gamma correction function and brightness compensation function at all temperatures

Series of product	FM06		
Color	Color	Single white	Single green
Type of pixel	Bar shaped RGB		
Grayness level	256		
Hardware interface	I²C+RGB I²C+YCbCr		
Brightness specification	300nit 100mW	1200nit 100mW	3000nit 120mW
Working temperature	-40℃~+65℃		

Sixth, 0.61 Inch (FM09 Series SXGA Products)

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COB type of color display module

FM09 series products：The resolution is 1280*1024, the display area size is 0.61 inch, the pixel size is 9.3um*9.3um, and FM09 series products have color and single green COB type of display module.

Product Characteristics

- Refresh rate： 25Hz~120Hz
- Color space conversion, adjustable brightness
- Built in gamma correction function and brightness compensation function at all temperatures

Series of product	FM09
Color	Color
Type of pixel	Bar shaped RGB
Grayness level	256
Hardware interface	I²C+RGB I²C+YCbCr
Brightness specification	400nit 270mW
Working temperature	-40℃~+65℃

Seventh, 0.23 Inch (FM11 Series Products)

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FPC type of color display module

FPC type of single green display module

FM11 series products：The resolution is 640*400, the display area size is 0.23 inch, the pixel size is 10um*11.5um, and FM11 series products have FPC type of display modules with different color.

Because of the high brightness characteristics, the combination of product with optical waveguide can be applied in the AR field.

Product Characteristics

- Refresh rate ： 25Hz~120Hz
- Color space conversion, adjustable brightness
- Built in gamma correction function and brightness compensation function at all temperatures

Series of product	FM11	
Color	Color	Single green
Type of pixel	Bar shaped RGB	
Grayness level	256	
Hardware interface	I²C+MIPI（1/2 lane）	
Brightness specification	300nit~5000nit 35mW~185mW	1000nit~50000nit 29mW~60mW
Working temperature	-40℃~+65℃	

Eighth, 0.96 Inch (FM05 Series Products)

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COB type of single green display module

FM05 series products：The resolution is 1400*1050, the display area size is 0.96 inch, the pixel size is 14um*14um, and FM05 series products have COB type of single green display module.

Because of the high brightness characteristics, the product can simultaneously meet the applications of observation and aiming in different modes such as day and night.

Product Characteristics

- Refresh rate :25Hz~90Hz
- Large size, high resolution, high brightness
- Built in brightness compensation function at all temperatures
- Built in three modes of brightness for selection: Which can meet brightness requirements in different modes such as day and night through software configuration

Series of product	FM05
Type of pixel	Square RGB
Grayness level	256
Hardware interface	16bit parallel input（Dual pixel）
Brightness specification	300nit~20000nit 60mW~430mW
Working temperature	-40℃~+65℃

Ninth, Driving Scheme

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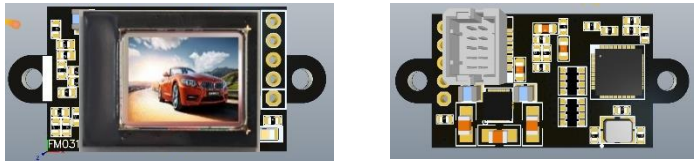
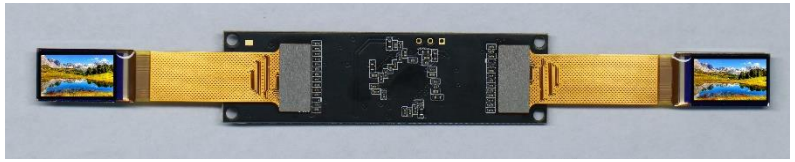
PAL Signal Input



Display driving module

Customized high-performance driving modules can be developed for monocular or binocular display, solving problems such as automatic recognition, automatic gain control, low refresh rate, and interlaced scanning of **PAL signals and other CVBS type signals**, presenting users with clear and smooth display effects.

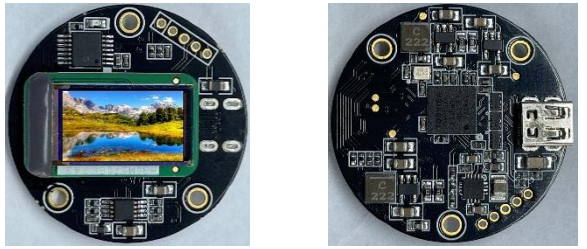
TypeC Signal Input



Scheme of monocular/binocular dispaly

Customizable single and binocular display driving modules can be applied in the MR field, and the interface and shape can be customized according to customer needs.

HDMI Signal Input



Display driving module

Customizable display driving scheme can be developed for the field of observation and aiming, with interface and shape that can be customized according to customer needs.

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THANKS!