



上海冠显光电
TOP DISPLAY OPTOELECTRONICS

NEAR-EYE DISPLAY

Professional Supplier of High-performance
Near-eye Display (NED) Solutions

PRODUCT
BROCHURE

Shanghai Top Display Optoelectronics was founded in 2014 and specializes in the design, development and manufacturing of high-performance near-eye display(NED) solutions, covering Micro-OLED, Fast LCD, optical engine and driver solutions(eg. HDMI, TYPE-C, CVBS, USB). They are widely used in VR &AR, EVF, sights, infrared thermal camera, telescope, medical imaging equipment, simulation training and other professional fields.

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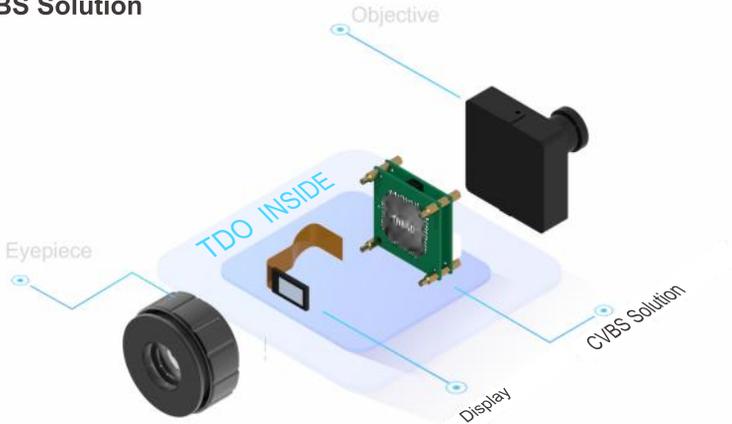


Display Module
Product Brochure

Features

- User control options: UART/I2C/USB/Wi-Fi
- Max Resolution: 5120*2560@75Hz in 3D
- Flexible customization in multiple fields
- Real-time sound & Luminance adjustment
- 3DoF, 6DoF
- 2D and 3D switch
- Video: DP/HDMI/CVBS/Type-C

CVBS Solution



Application Cases



Thermal Imaging



Digital Sight



Outdoor Thermographic Telescope

Driver Board



**Binocular
Driver Board**

- Features: 2D/3D switch
- Interface: Micro HDMI
- Max. Resolution: 2D 1920X1080@75Hz
3D 3840X1080@75Hz



**Binocular
Driver Board**

- Features:
Volume/Brightness control, 2D/3D switch
- Interface: Type-C
- Max. Resolution: 2D 2544X2544@75Hz
3D 5120X2560@60Hz
3D 3840X1920@90Hz



**Monocular
Driver Board**

- Features: Mini size
- Interface: CVBS
- Max.Resolution: 1920X1440@60Hz



**Monocular
Driver Board**

- Features: Mini size, Brightness control
- Interface: HDMI
- Max. Resolution: 2560×2560@60Hz



**Monocular
Driver Board**

- Features: Mini size
- Interface: Micro HDMI
- Max. Resolution: 2560x2560@60Hz



**Monocular
Driver Board**

- Features: Mini size
- Interface: Type-C
- Max. Resolution: 2560×2560@60Hz



Rigid-Flex PCB

- Features: Flexible PCB boards, bendable, easy to install, easy structural design
- Interface: Type-C
- Max. Resolution: 2D 1920X1080@75Hz 3D 3840X1080@75Hz

Optical Engine



Optical Engine	Birdbath	Pancake	EVF	EVF	Pglass-1C	Pglass-2
Display Size	0.49"/0.6"	1.03"	0.32"	0.4"	0.49"	0.6"
FOV	43°/43.5°	90°	33°	30°	41°	43.5°
Resolution	1920*1080	2560*2560	800*600	1440*1080	1920*1080	1920*1080

Display Module List

Display Types	Size	Resolution	Luminance(cd/m ²)	Display Interface
MicroOLED	0.32"	800*600	2000	MIPI/RGB
	0.32"	800*600	400	MIPI/RGB
	0.39"	1024*768	600	RGB
	0.49"	1920*1080	3000	MIPI
	0.49"	1920*1080	1800	MIPI
	0.5"	1600*1200	1000	MIPI
	0.6"	1920*1080	3000/6000	MIPI
	0.72"	1920*1200	2000	MIPI
	1.03"	2560*2560	1800	MIPI
	1.03"	2560*2560	20000	MIPI
Fast LCD	1.3"	3552*3552	1600	MIPI
	1.25"	720*720	400	MIPI
	1.8"	1920*1080	500	MIPI

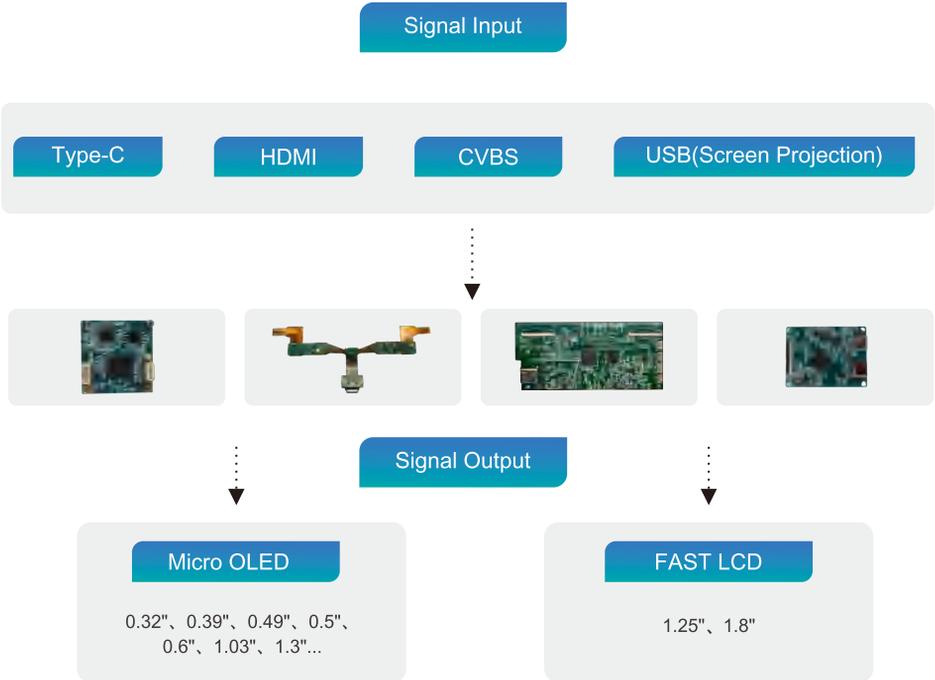
Interface could be customized: HDMI/Type-C/CVBS/USB.

Micro-OLED Display Modules



Size	0.23"	0.32"	0.39"	0.49"	0.5"	0.6"	1.03"	1.3"
Resolution	640*400	800*600	1024*768	1920*1080	1600*1200	1920*1080	2560*2560	3552*3552
Luminance (cd/m²)	3000	400/2000	600	1800/3000	1000	3000/6000	1800/20000	1600
Interface	MIPI	MIPI/RGB	RGB	MIPI	MIPI	MIPI	MIPI	MIPI

Near-eye Display Solution



Targeted Markets



HMD



VR



Video Glass



AR



Infrared Thermal Camera



Medical



Design



EVF



Electron-sight



Telescope



Microscope



Security



FPV



Headquarter

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