




冠显光电科技有限公司
TOP DISPLAY OPTOELECTRONICS CO.,LTD.



COMPANY PROFILE

Shanghai Top Display Optoelectronics Co., Ltd.

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About TDO

Mission

Empowering an inter-linked vision.

Vision

Become the leader in display industry.

Core Values

Innovation, efficiency, win-win.



Top Display Optoelectronics (TDO) is a professional display supplier that integrates R&D, manufacturing, and sales of display modules ranging from 0.32 inches to 55 inches. TDO was founded in Shanghai by a team of engineers boasting over 20 years of experience in R&D and operations. Leveraging top-notch innovation and operational expertise, we proudly operate an automated display module production facility in Shenzhen. Additionally, we have developed our proprietary software, Giraffe IDE, for UI design. We are committed to become the leader in LCD/OLED display, intelligent display, and near-eye displays. With distributors across more than 40 countries, our displays are widely embraced in various markets such as smart homes, IoT, industrial control, and the medical sector.



● Milestone

2014

Founded by a team of engineers in Shanghai

2015

Established TFT display production line in Shenzhen

2016

Awarded High-tech enterprise in Shanghai

2017

Introduced Intelligent UART display and TGUS software

2018

Launched smart 86 box

2019

Released X-Series core display modules

2020

Introduced IoT display

2022

Brought XR Near-eye to market

2023

New factory in Shenzhen put into production;
Launched Giraffe IDE

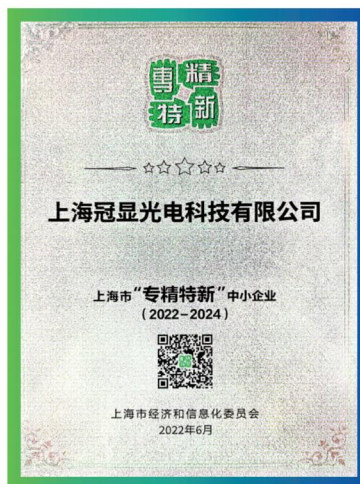


● Honor & Certificates

50+ patents,
ISO9001, ISO14001, CE and RoHS



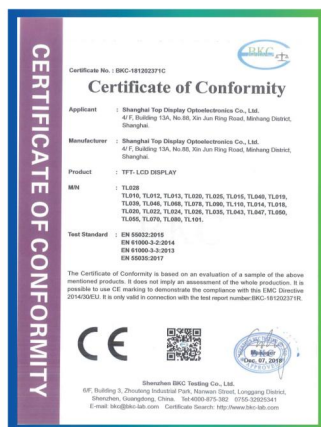
► High-tech Enterprise



► SRDI Enterprise



► Giraffe Software



▶ CE



▶ RoHS



► ISO14001



► ISO9001

● Production Capability

Number of Staff

150+

R&D Staff

40+



Shanghai:Headquarter



Shenzhen:Factory Base



Production Capacity

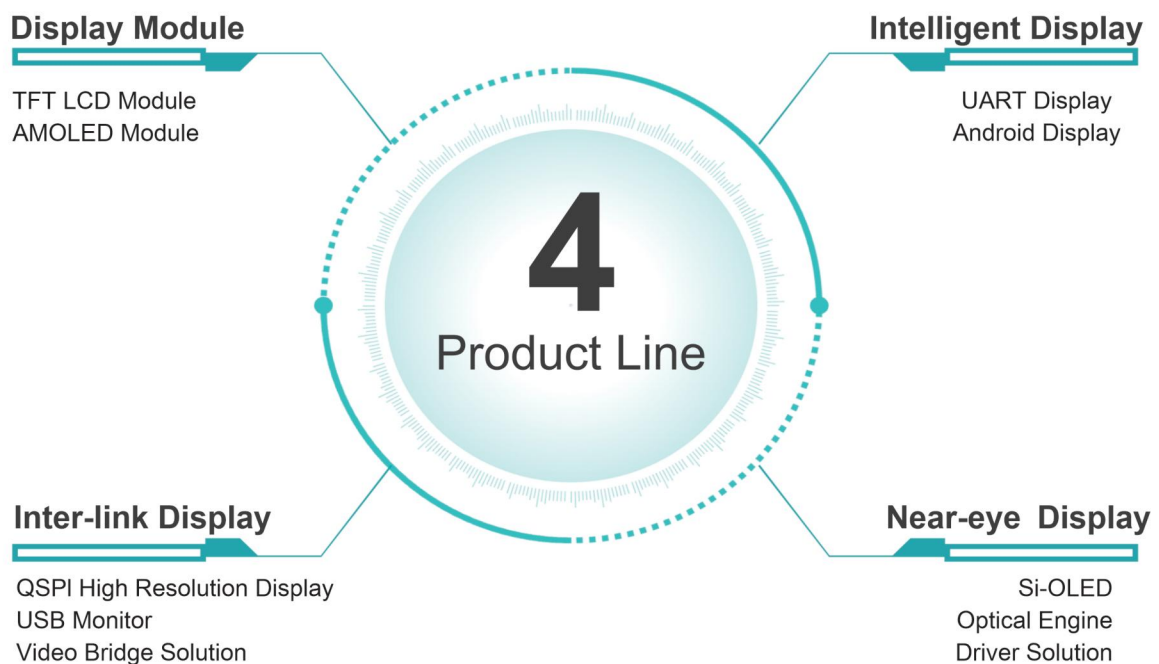
3.5KK+

● Brands

Establish partnership with 300+ global brands



● Overview of Product Line



Display Modules

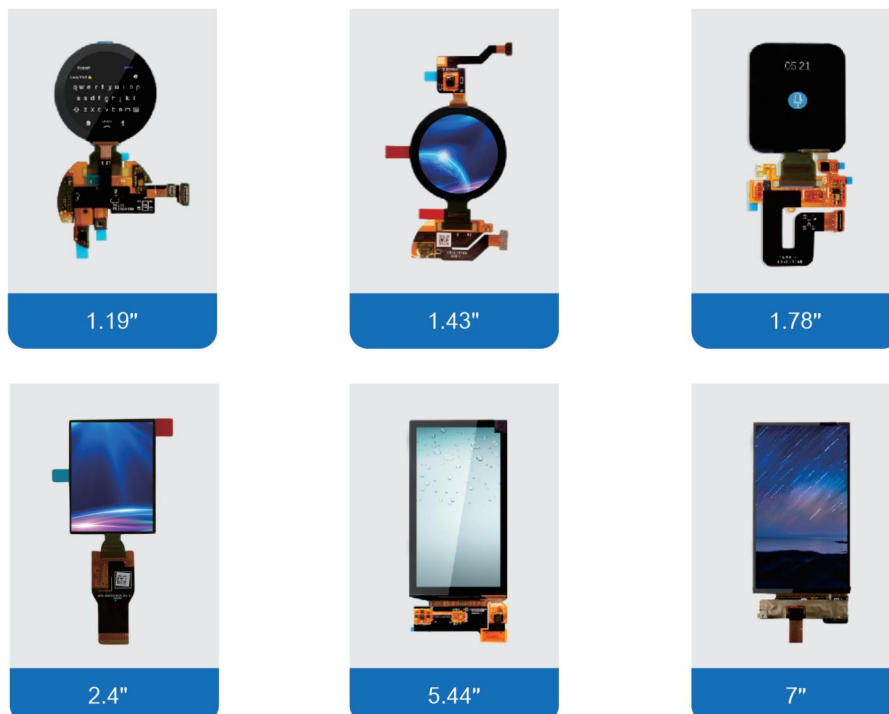
TDO LCD display modules cover a variety of shapes, sizes, interfaces, TN/IPS viewing angles, and support resistive/capacitive touch panel. We can provide customized services including interface type, brightness, cover glass, touch panel, sunlight readable, etc, which can meet the special requirements of customers.

● TFT LCD Module



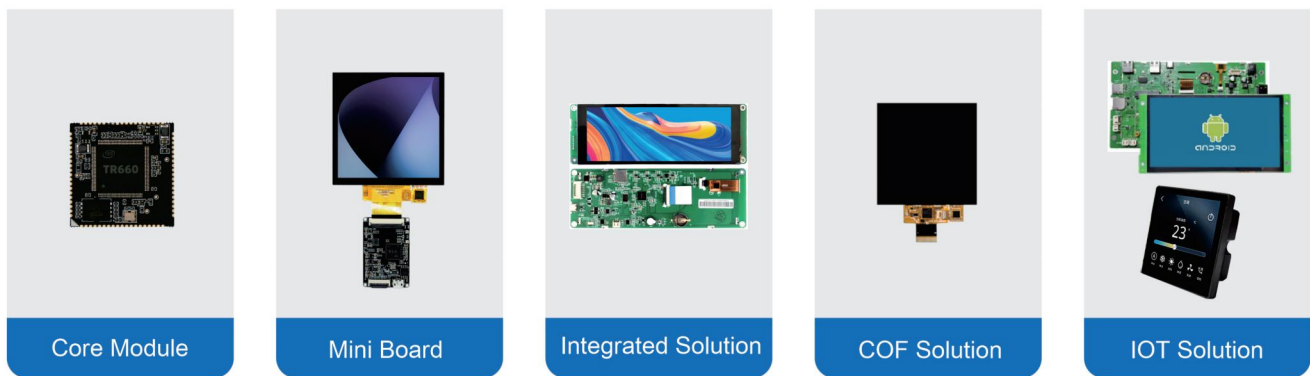
● AMOLED Module

AMOLED has the advantages of high resolution, low power consumption, and low temperature operation of -40°C. It is mainly used in medical, VR, wearable and industrial fields.



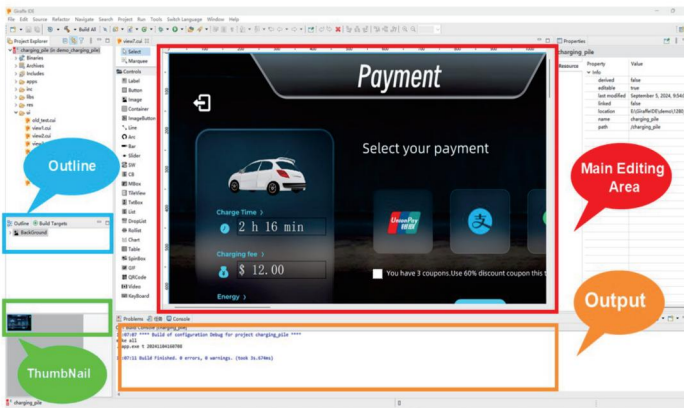
Intelligent Display

Intelligent display includes the UART solution and Android solution. TDO UART solution uses the TR series chip as MCU to drive the LCM. This solution is combined with TDO's self-developed UI software-Giraffe IDE, providing users with a flexible and efficient smart display solution. Android display solution uses the RK series chip as SoC, equipped with the Android operating system. Both solutions can achieve seamless connectivity and collaborative operation with embedded systems, making them widely applicable in industries such as smart home appliances, medical displays, industrial control, etc.



● Giraffe IDE

Giraffe IDE is Human Machine Interface UI development tool developed by TDO. Users can quickly implement a “what you see is what you get” interface similar to the Android UI components.

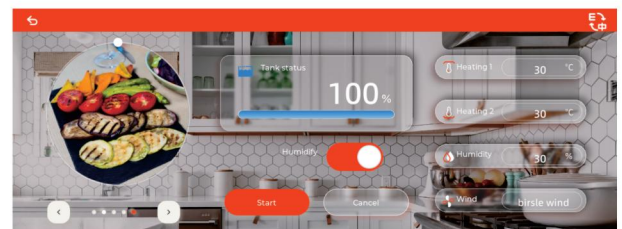


- Integrated simulation window
- C language development environment, providing rich API
- Configuration based UI development approach to achieve Android like effects
- Continuously updated control packages and support remote system upgrades



Agriculture

Coffee Machine



Kitchen Appliance



Industrial Panel

86 Box

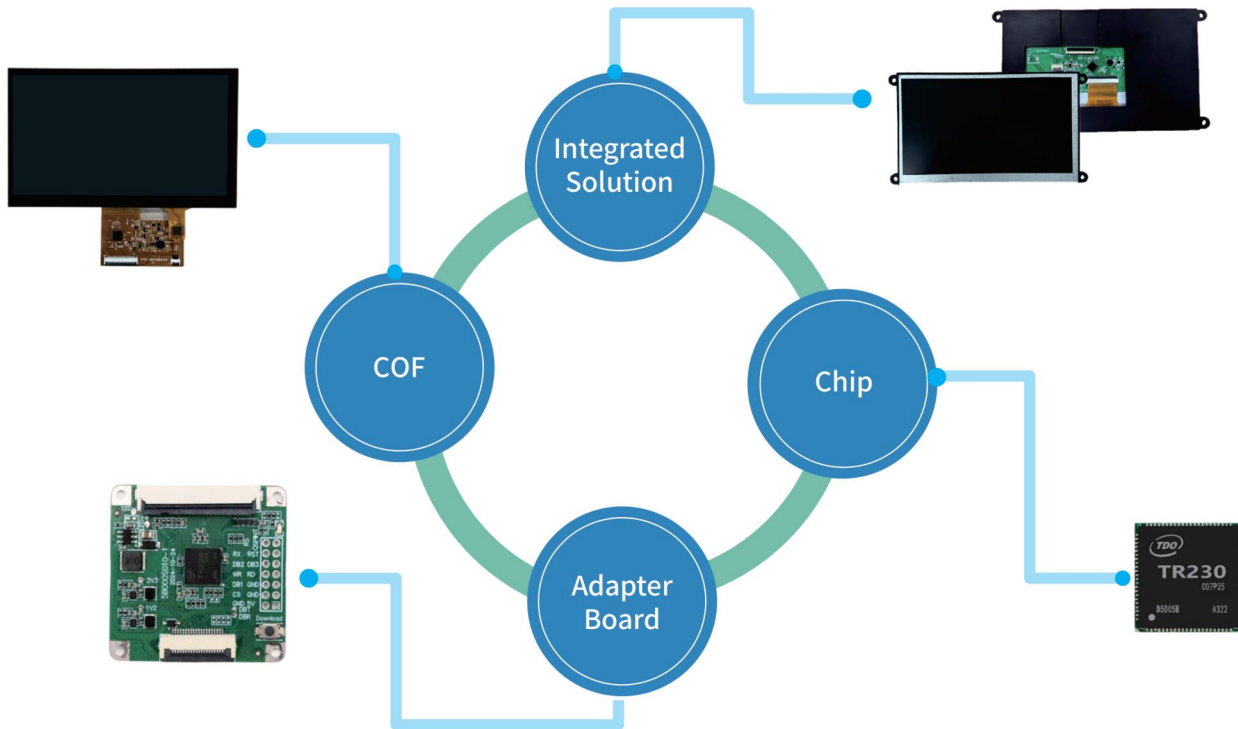
Medical Treatment

Inter-link Display

Inter-link display is committed to creating an efficient interconnected display ecosystem. This product line facilitates functional adaptation between modules and customer motherboards via inter-link solutions. It includes QSPI/USB/HDMI/Type-C/DP solution. In addition, it offers module interface conversion, power conversion, and other connection solutions to help address various compatibility issues.

● QSPI High Resolution Display

Drive higher resolution and larger size modules through QSPI/SPI/8080 interface. Maximum resolution is up to 1024*768.

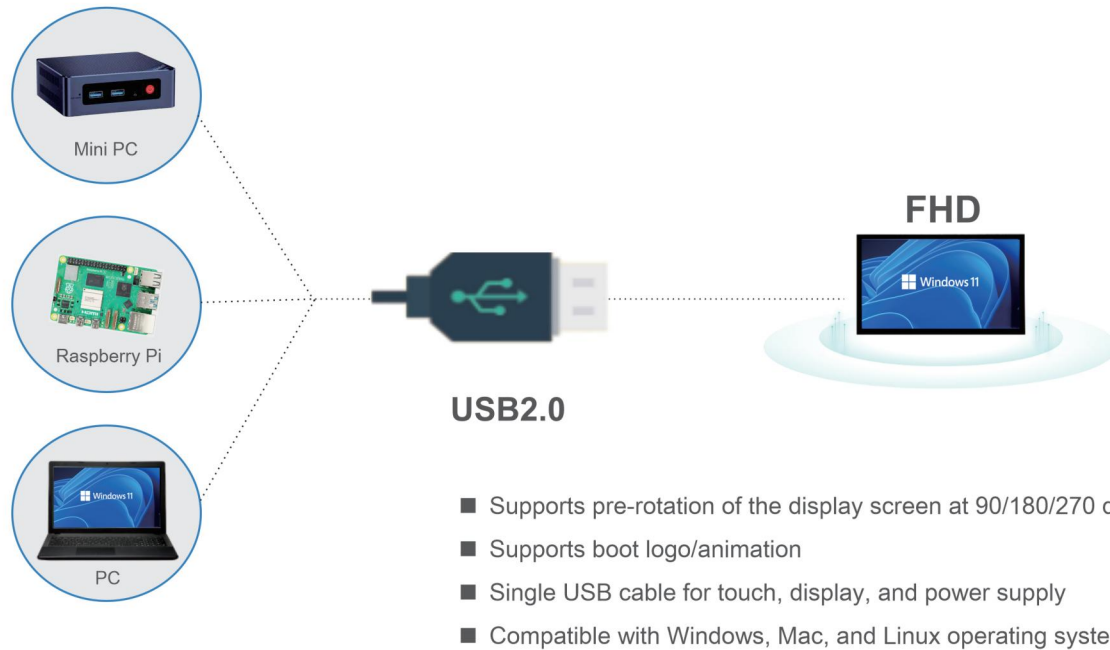


- Package size: 7*7mm
- Supports interfaces: SPI/QSPI/8080
- Maximum resolution: up to 1024*768

- Includes display engine and graphics engine
- Compatible with Arduino, STM32, ESP32, Raspberry Pi

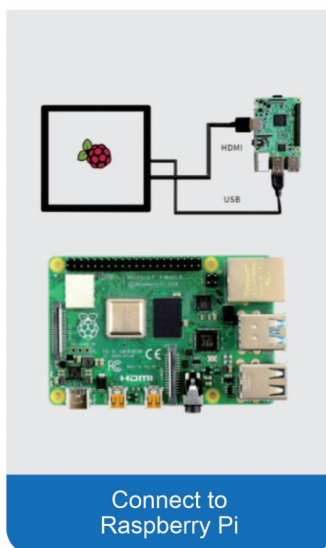
● USB Monitor

With USB interface (USB2.0 protocol), users can immediately copy or extend their computer screens to an external display.



● Video Bridge Solution

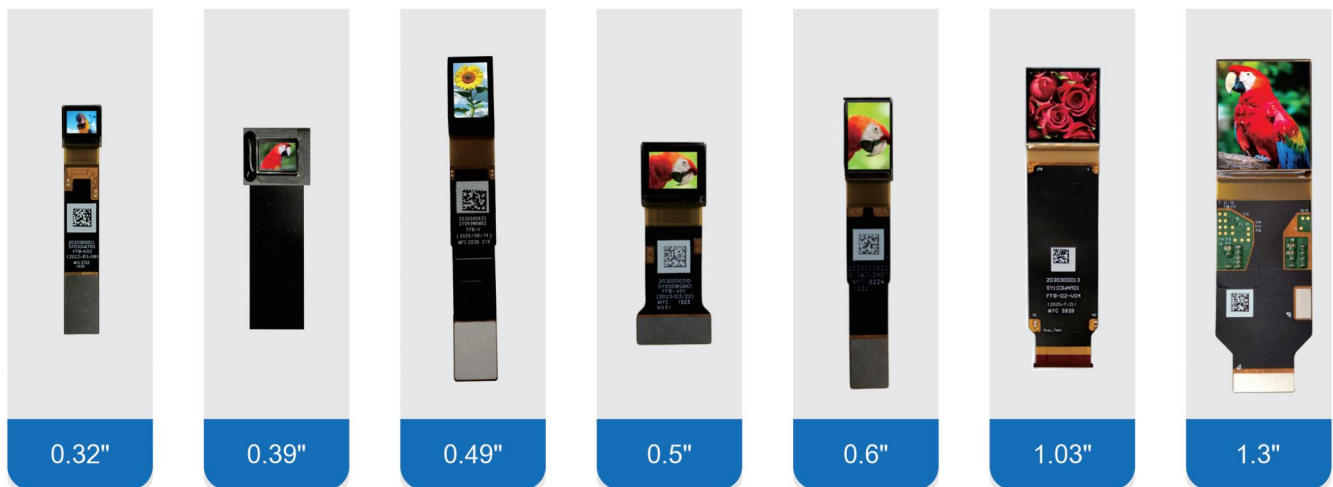
Includes multiple interfaces: HDMI/DP/Type-C with DP Alt/CVBS. Plug and play, no drivers required, and conforms to international standard interfaces.



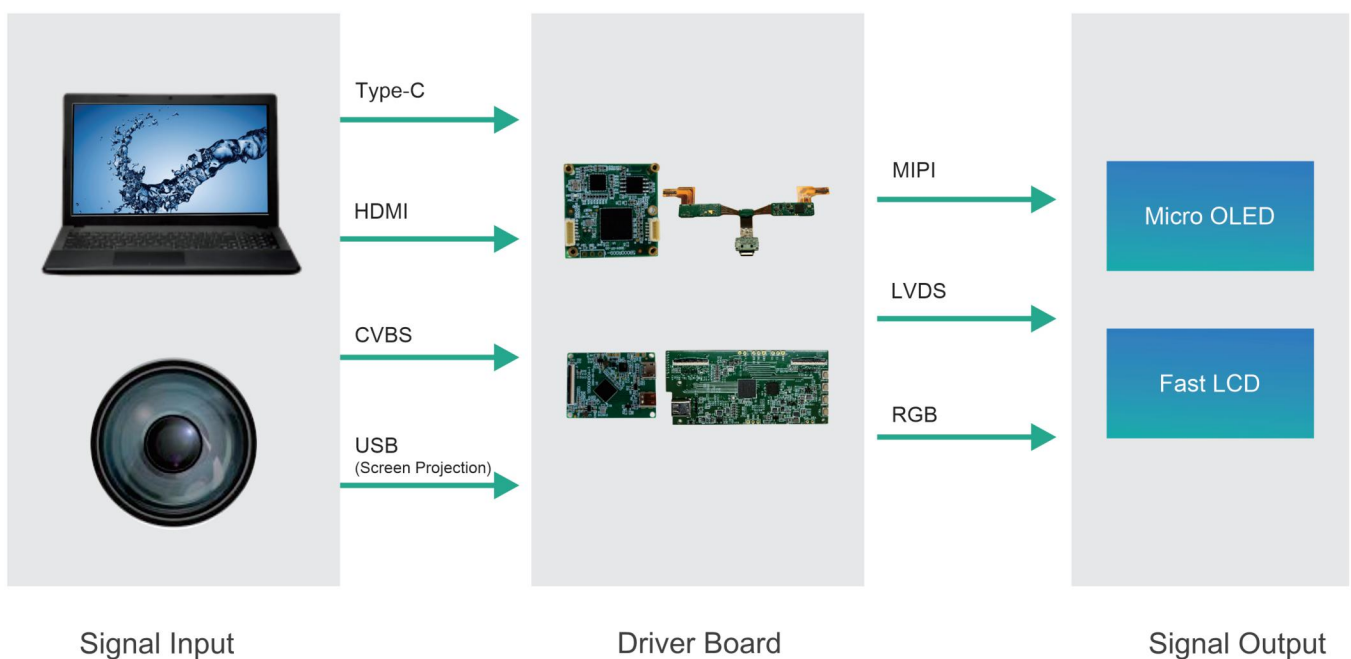
Near-eye Display

TDO specializes in the design, development and manufacturing of high-performance near-eye display (NED) solutions. We provide Micro-OLED, Fast LCD, optical engine and driver solutions, which are widely used in VR&AR, EVF, sights, infrared thermal camera, telescope, medical imaging equipment, simulation training and other professional fields.

● Micro OLED Display Module



● Near-eye Display Solution



Industrial Solutions



Coffee Machines



Integrated Stove



Floor Washes & Dries



Water Purifier



86 Boxes



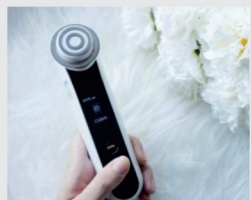
Security Monitoring



Elevator Display



Charging Piles



Beauty Instruments



Medical Monitoring Equipment



Portable Ventilators



Card Scanning



Two-wheel Electric Vehicles



Agricultural Tablets



3D Printers



Game Consoles



AR



VR



Infrared Thermal Camera



Electron-sight



Intelligent Display
Product Brochure



Inter-link
Product Brochure



Display Module
Product Brochure



Near-eye
Product Brochure



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