

Review Guideline

BLACK SHARK 4

Break Through The Limits



Key Selling Points

POWERFUL BUT SUBTLE DESIGN

MASTER CONTROL FOR PRO GAMERS

1. Magnetic Pop-Up Triggers
2. 720Hz Touch Reporting Rate

MONSTER PERFORMANCE FOR SMOOTHEST GAMING

1. Qualcomm Snapdragon 870
2. Upgraded "Sandwich" Liquid Cooling System
3. LPDDR5 + UFS3.1
4. Up to 120W Hyper Charge 4500mAh Battery
5. 5G + Wi-Fi 6 "X" Antenna

PREMIUM DISPLAY AND AUDIO FOR IMEERSIVE GAMING

1. 6.67" AMOLED screen
2. 144Hz Refresh Rate with MEMC Technology
3. Front Facing Symmetry Stereo Speakers

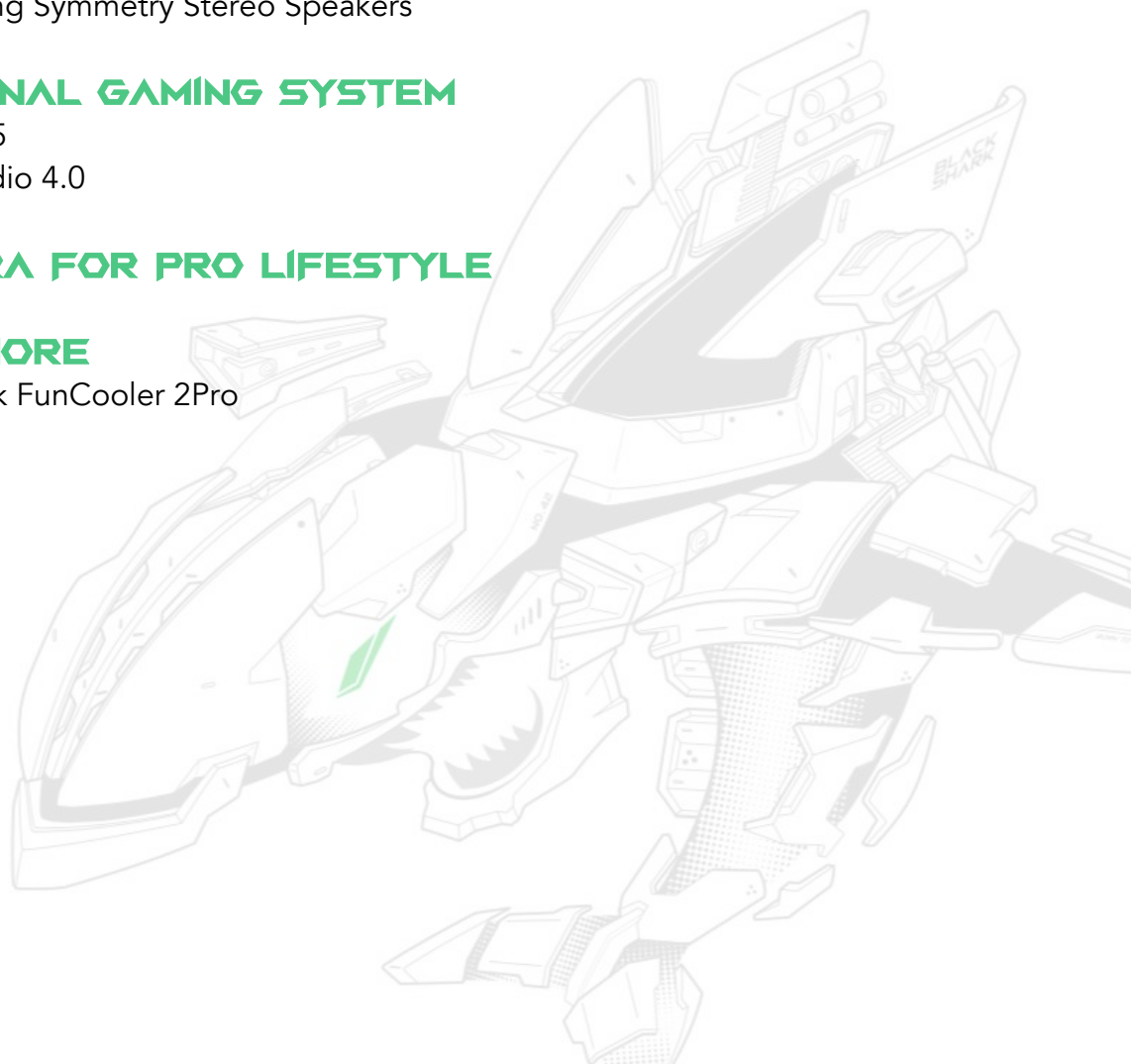
PROFESSIONAL GAMING SYSTEM

1. JOYUI 12.5
2. Game Studio 4.0

PRO CAMERA FOR PRO LIFESTYLE

EXPLORE MORE

1. Black Shark FunCooler 2Pro



Review Guideline

POWERFUL BUT SUBTLE DESIGN

With a carved metal frame and holographic backplate, Black Shark 4 is a stylish design for today's mobile gamers.



Black Shark 4 retains the 3.5mm audio jack to facilitate audio output through wired devices. Enjoy delay-free gaming audio and beautiful music with no interference.



Review Guideline

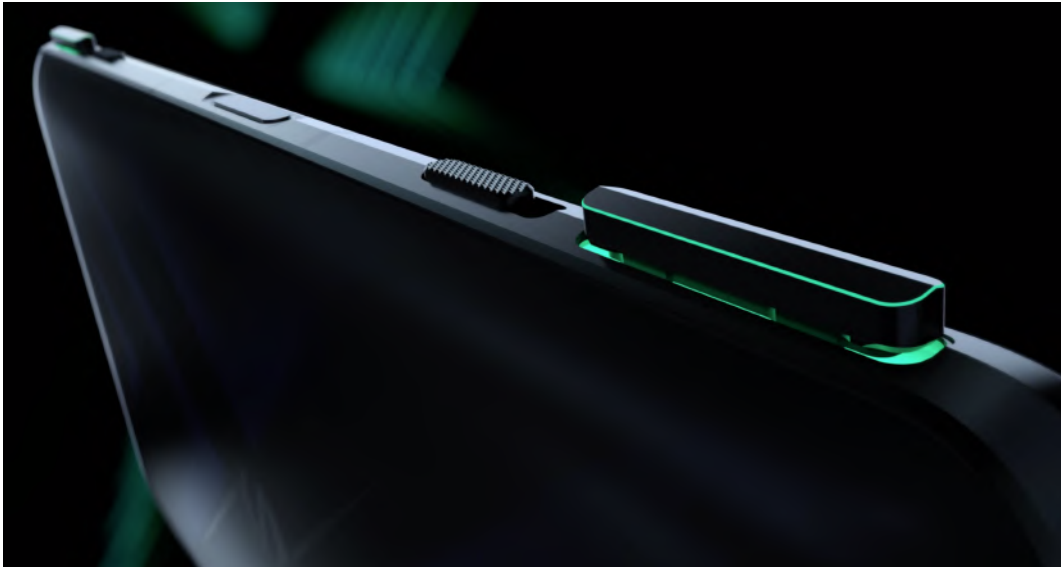
MASTER CONTROL FOR PRO GAMERS

1. MAGNETIC POP-UP TRIGGERS

Physical buttons? Yes! Thanks to our innovative magnet-lift technology, ultra-responsive shoulder triggers appear like magic with a gentle press for precise, customizable control in competitive games. When not in use, the triggers disappear seamlessly back into the edge of the Black Shark 4.

You can map various buttons on the screen in any games.

- **6** magnetic power to drive
- **160g** trigger pressure
- **1,000,000+** times trigger life
- **15** types of toggle button textures tested



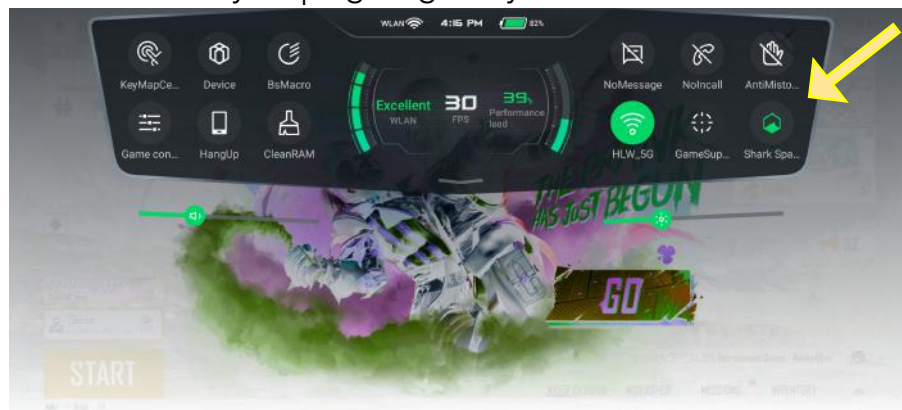
1) How to pop up / put down the triggers?

Easy. Just toggle the button beside the triggers.

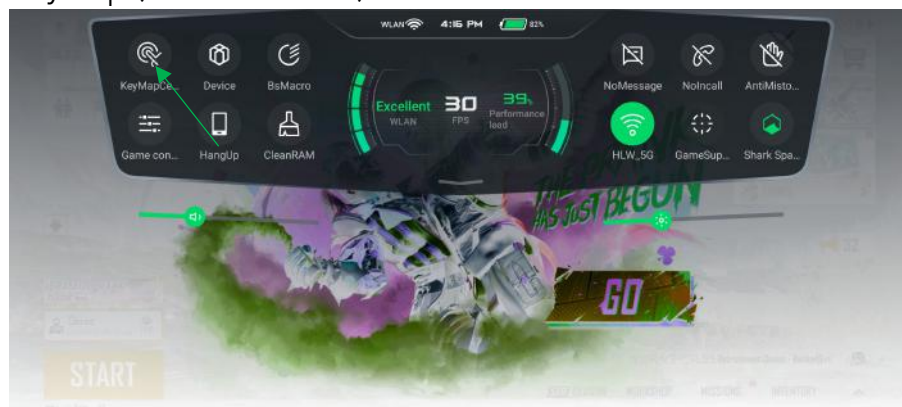
2) How to set up the triggers?

- Enter Shark Space by pressing and holding both shoulder trigger buttons at the same time.
- Enter a game.

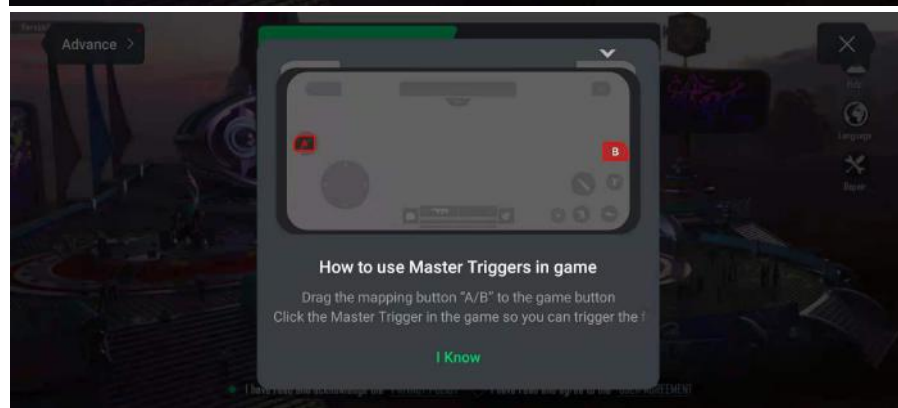
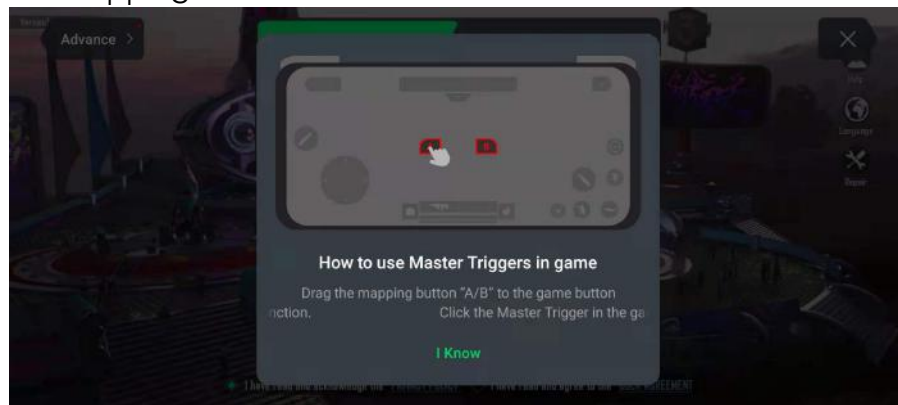
- Enter Game Studio by swiping diagonally across the screen.



- Click KeyMap (Master Control)



- Drag the mapping button "A"/"B" to the button sections on screen.

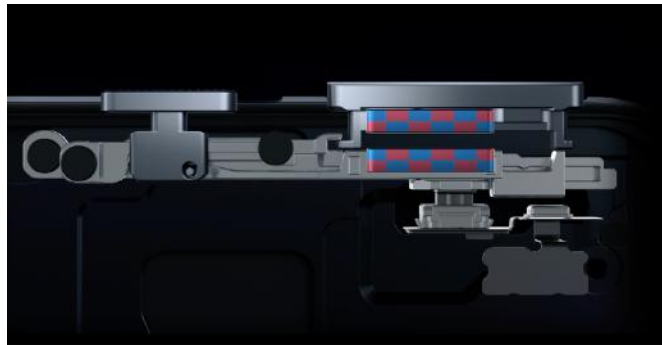


- Click the physical triggers to trigger the setting.

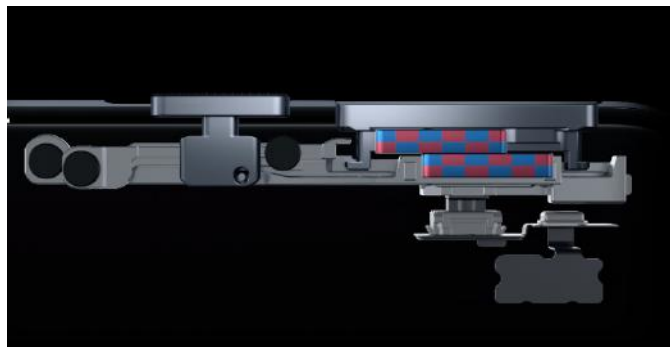
3) How do the pop-up triggers work?

- Uses the differences in polarity and its influence on the Hall's Effect between the "open" and "close" positions to determine the state of deployment of the button.
- The magnet groups are arranged alternatively in a "attraction-repulsion-attraction" layout to extend or retract the button as needed.

Extended



Retracted



2. 720HZ TOUCH REPORTING RATE

A touch reporting rate of up to 720Hz gives Black Shark the industry's lowest touch delay of just 8.3ms (multi-finger) for smoother, more responsive gaming.

Furthermore, by improving our algorithm and fine-tuning the system, we have achieved touch accuracy of 0.004mm – the lowest in the industry. High degree of touch accuracy and refresh rate means every subtle action you take will be accurately reflected in game with unprecedented levels of fine control. Whether you are looking through your 8x scope in an FPS for that kill or dragging across the screen to cast a spell in a MOBA arena, Black Shark 4 will more than keep up and greatly enhance your stability and accuracy.

MONSTER PERFORMANCE FOR SMOOTHEST GAMING

1. QUALCOMM SNAPDRAGON 870

Black Shark 4 is equipped with Qualcomm's latest flagship processor - Snapdragon 870. The flagship processor employs advanced 7nm process technology with 8-core architecture for blazingly fast processing power. The Kryo 585CPU super core offers clock frequencies up to 3.2GHz for an incredibly powerful performance.

2. LPDDR 5 + UFS 3.1

Black Shark 4 features UFS 3.1 RAM and LPDDR5 ROM to make sure the data is transferred at the fastest speed in the phone. Installing games, loading games, and switching between scenes are now quicker than before.

3. UPGRADED "SANDWICH" LIQUID COOLING SYSTEM

Engineered using a patented welding technology, two liquid cooling units sandwich internal components for a 30% overall increase in heat dissipation.

The entire cooling solution is designed around the three leading heat sources in mobile phones (5G chip, processor, charging chipset) and these components are strategically placed to avoid excessive heat concentration. A large surface area direct contact copper heatsink is designed to rapidly move the heat to the liquid cooling system to accelerate heat venting. A new intelligent NTC temperature sensor is added to detect the heat profile in the grip zones and communicate the data to the cooling system to better control the temperature in real-time so your hands remain cool even in prolonged portrait gaming.



4. UP TO 120W HYPER CHARGE + 4500MAH BATTERY

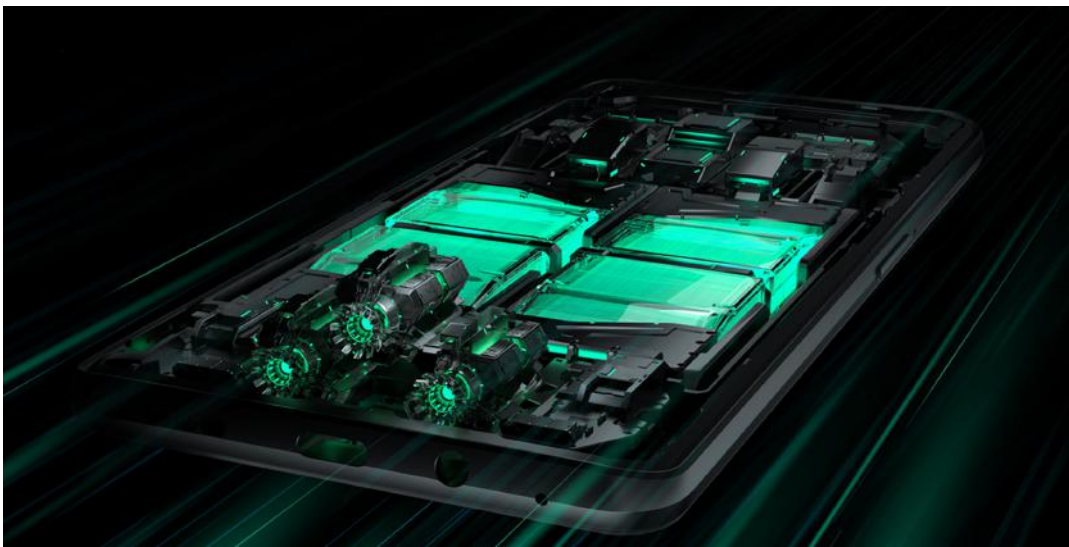
Powered by our brand-new double-cell eSports battery tech, Black Shark 4's super-capacity 4500mAh battery with ultra-fast 120W hyper charging provides all-day gaming and entertainment.

Our test result: Charge to 100% in under 17mins.

*Remarks

What we provide for review is 120W CN charger.

It would be 67W standard charger in the final retail box for sales. Charge to 100% in less than 25mins. 120W might be on sales in separate package later this year.



5. 5G + WIFI 6 "X" ANTENNA

SA/NSA dual mode 5G and WiFi 6 provide the fastest data speeds available, at home and on the go. The "X" antenna design and intelligent network switching ensures that you'll always get the fastest possible speeds.



PREMIUM DISPLAY AND AUDIO FOR IMEERSIVE GAMING

1. 6.67" E4 AMOLED SCREEN

Black Shark 4 uses the latest generation E4 AMOLED from Samsung for its gorgeous yet power-saving display.

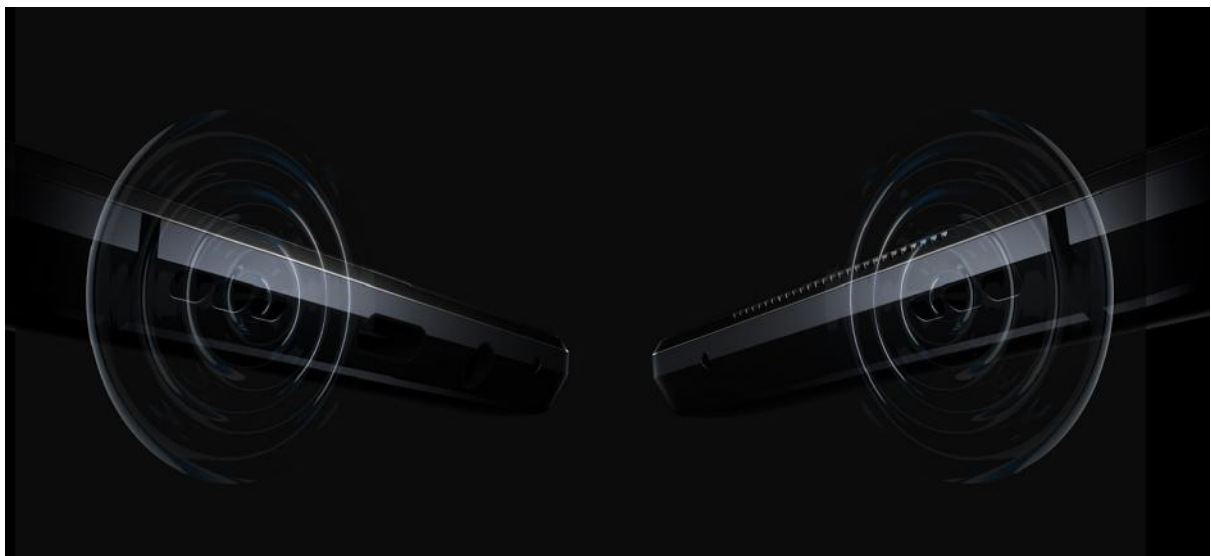
It features ultra-narrow edge with peak brightness of 1500nits, global maximum brightness of 900nits, a contrast ratio of 5000000:1, and a 15% reduction in power consumption. The front camera micro-hole measures only 2.76mm to minimize screen obstruction, creating a more integrated look and an immersive gaming experience. The visual perception during gaming is better integrated, and the screen supports True DC dimming to protect the eyes during prolonged use. The screen has been built to handle even the most challenging graphics and is HDR 10+ certified.

2. 144HZ REFRESH RATE WITH MEMC TECHNOLOGY

Black Shark 4 offers a high refresh rate of 144Hz which intelligently adapts to the 144Hz refresh rate of the latest games to provide players with silky smooth gaming experience. Users can also select from three custom refresh rates of 120Hz, 90Hz, and 60Hz to achieve the appropriate screen refresh rate accordingly to suit their preference and the application requirements to achieve smoother graphics.

3. FRONT FACING SYMMETRY STEREO SPEAKERS

We implement full symmetry ultra-large amplitude dual linear speakers, top circuit sounding unit, and a large sound cavity for the dual speakers.



Besides professional tuning and algorithms are required to give these units full play. We adopt the industry's top software and hardware audio algorithms, including DTS, ELEVOc, and Cirrus Logic technologies. Based on these technologies, we independently develop our unique Biso sound effects.



PROFESSIONAL GAMING SYSTEM

1. JOYUI 12.5

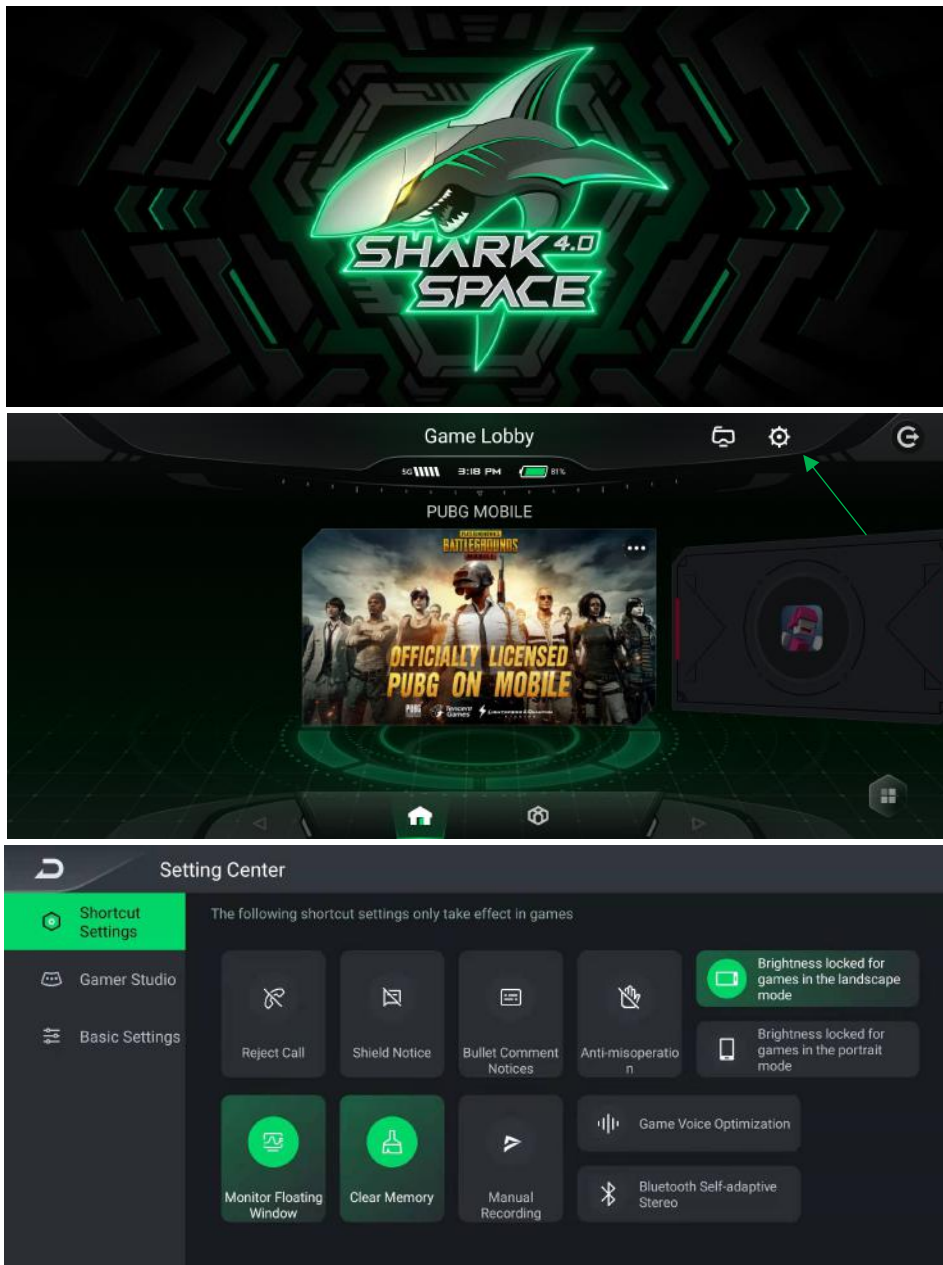
JOYUI12 inherits most of the functions of MIUI12, including the Light Cone Motion Architecture, synaesthetic visualization, nature inspired notification sounds, as well as new functions to improve privacy, note taking, and many more.

2. GAME STUDIO 4.0

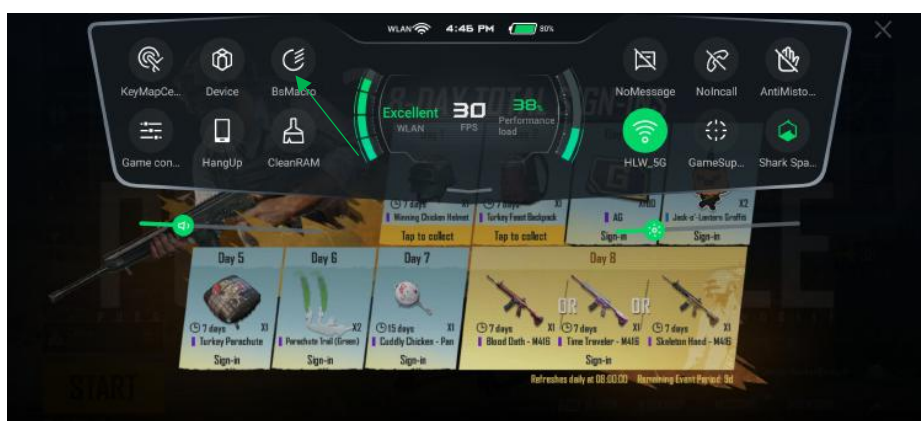
1) Shark Space 4.0

Shark Space has been upgraded to version 4.0 and can be accessed by pressing and holding both shoulder trigger buttons at the same time, or through selecting the APP from the menu.

Shark Space 4.0 allows users to quickly adjust their network status, performance, Do-Not-Disturb function, master touch settings, and other functions during the game without breaking immersion. Users can also select a diving mode in the game studio to eliminate any external interference with the game.



2) Game Macro



Game macros can be programmed for specific scenes of the game. Repetitive actions can also be programmed to enable one-key execution. The macros reduce the need for repetitive actions and make controlling your gameplay much more fluid.

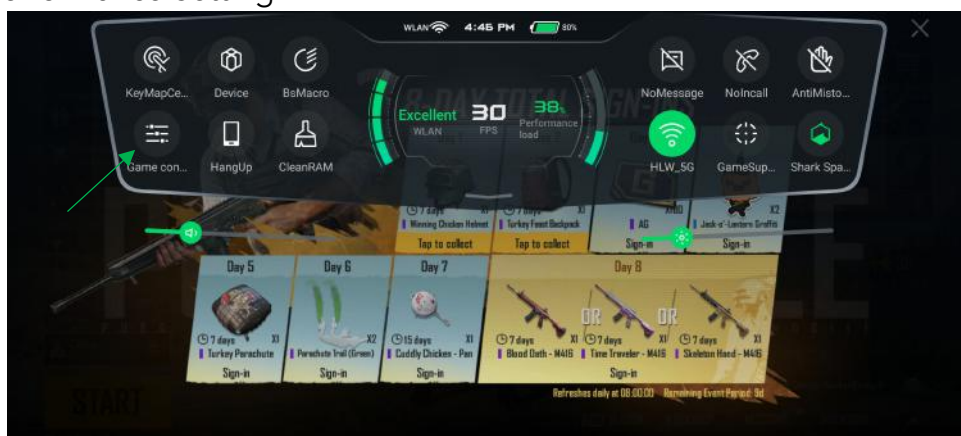
3) Motion Sensing

Click KeyMap (Master Control). Then choose the motions you'd like to use from the list.

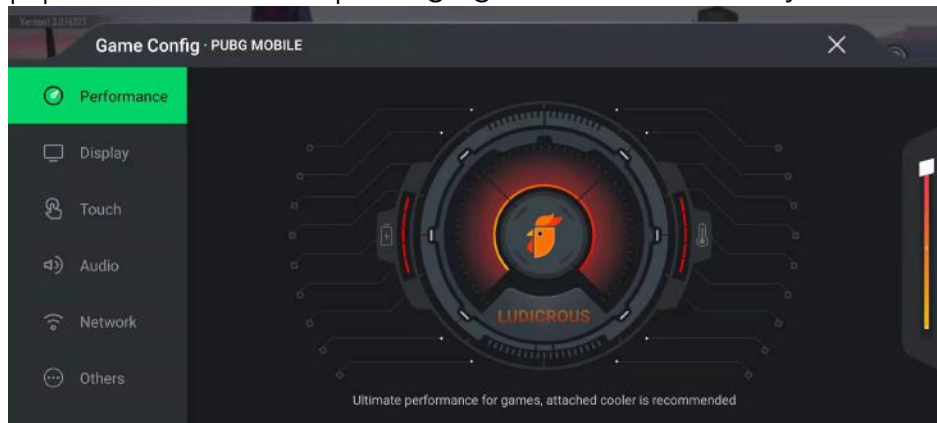


4) Game Studio Setting

A. Performance Setting

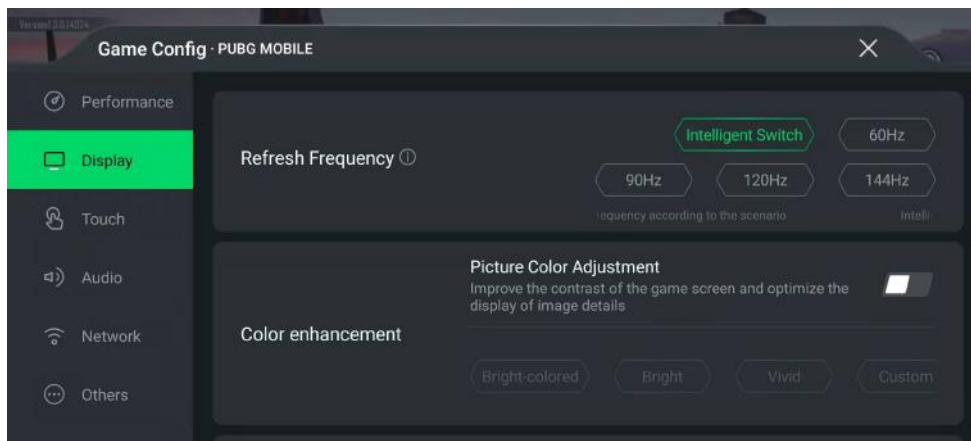


The Ludicrous Mode squeezes every last ounce of extreme performance from the equipment and allows super large games to run smoothly with no stuttering.



B. Display Setting

Ultra-high 144HZ refresh rate with Intelligent Switch option/Color enhancement / newly added Hunting Mode; the ultra-high refresh rate makes the game smoother, while the picture quality & color enhancement makes the game visuals clearer and brighter. The unique Hunting Mode makes it easier to spot enemies in FPS games.

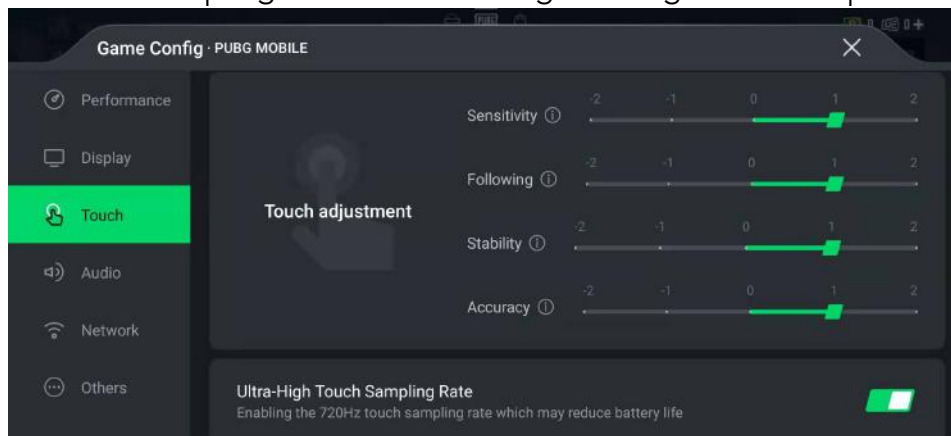


Hunting Mode



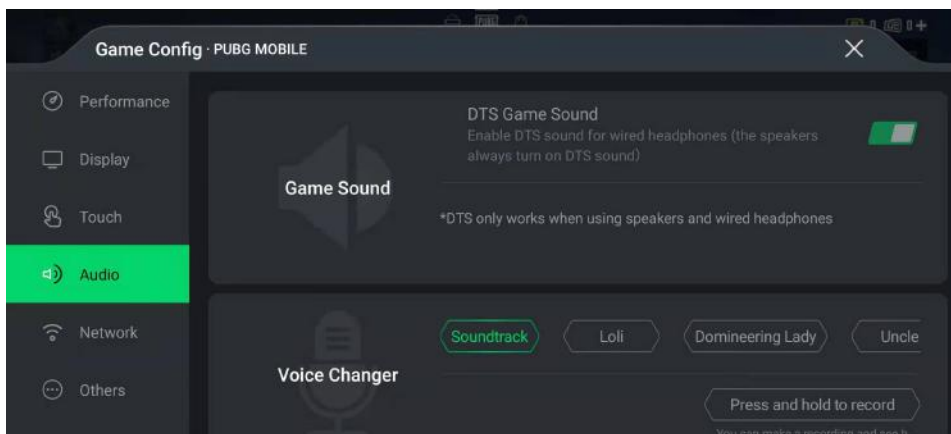
C. Touch Setting

Gyroscope sensitivity adjustment/touch screen sensitivity adjustment/720Hz ultimate touch sampling rate activation/in-game edge mistouch prevention.



D. Audio Setting

The high-definition sound effects pull users into the game for a more engaging gaming experience. Voice changer allows for more interesting communicating options and smoother communication.



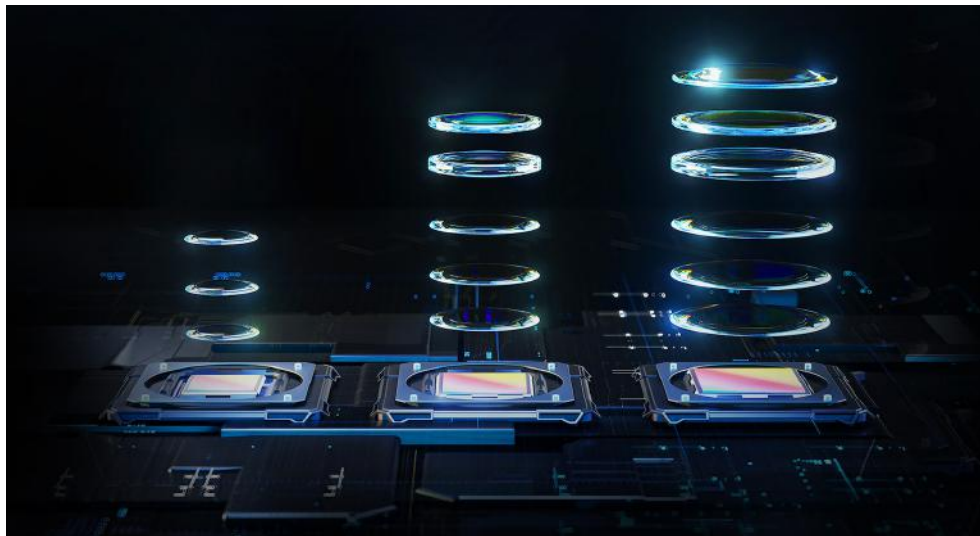
PRO CAMERA FOR PRO LIFESTYLE

Black Shark 4 rear camera module

- 8MP HD wide-angle lens – f/2.2 aperture
- 5MP telephoto lens – f/2.4 aperture
- 48MP Ultra HD lens – f/1.8 aperture

Black Shark 4 front camera module

- 20MP Ultra HD lens – f/1.8 aperture



Supports 4K@60fps video recording

Support 1080P/720P @120fps/240fps/960fps slow motion recording

Professional movie filters for Vlogging

Professional short video shooting with more stable focus for unlimited creativity.

Professional photography mode allows you complete creative freedom.

Supports 4800W ultra-high-definition photography.

EXPLORE MORE

1. BLACK SHARK FUNCOOLER 2PRO

The FunCooler 2Pro uses a Thermal Electronic Cooling system, heat is absorbed from the surface of the phone using the Peltier effect and release out towards the fan system. 7 fan blades boasting a spinning speed of 6200 RPM make quick work of the heat released.

Compatible for Android phones / iPhone with 67-88mm width.



Heat will have nowhere to hide in the Aluminum heat sink made from 147 cooling columns. Once the fan is activated, dust is blasted away and your phone starts its descent to icy cold.

You can see the temperature change on the small display screen.

Besides, FunCooler 2Pro can be managed in Game Studio to customize the RGB lights, to adjust cooling levels in of Black Shark phones.

Our test result: Around 20C° temperature drop in 1 min.