

XREAL 1S

User Guide



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Package Contents



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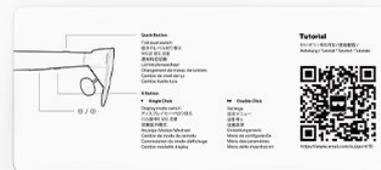
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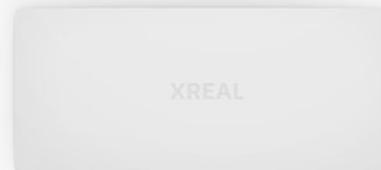
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① Packaging Box

② Capsule Case

③ XREAL 1S

④ USB-C Cable

⑤ S & L Nose Pads

⑥ Storage Box

⑦ User Manual

⑧ QR Code Card

⑨ Disclaimer & Safety Notes

⑩ Cleaning Cloth

Specifications

Display Sony 0.68" Micro-OLED

Resolution 3840 x1200 (Binocular)

Color Gamut 108% sRGB

Contrast Ratio 100000 : 1

FOV 52°

Display Distance 1m - 10m (Adjustable)

Virtual Screen Size 31" - 500" (Adjustable)

Refresh Rate Fixed 90Hz, up to 120Hz

Peak Brightness 700Nits

Color Accuracy $\Delta E < 3$

Gamma Gamma 2.2

IPD Adjustment Supported

Electrochromic Dimming 3-level & Auto-dimming

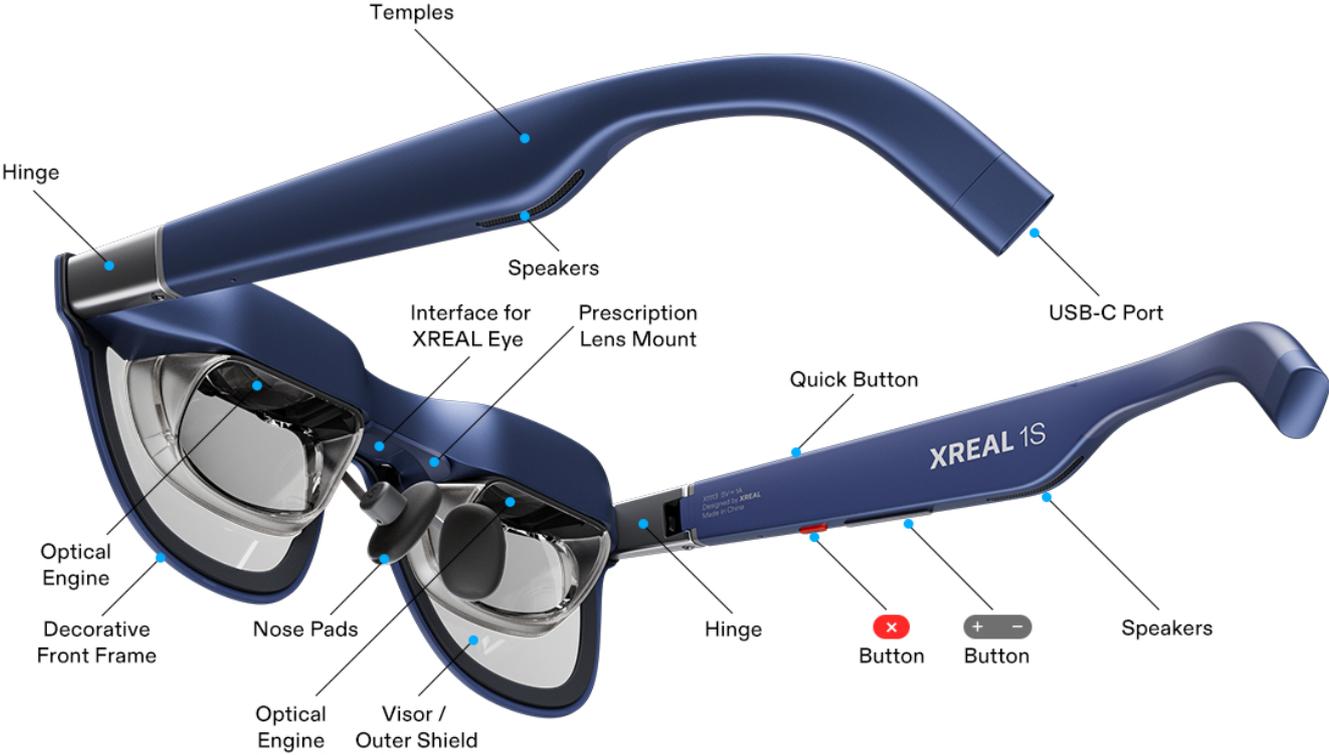
Audio Sound by Bose

Privacy Private Cinema Soundstage 3.0

Microphone 4-Mic Array

Specifications

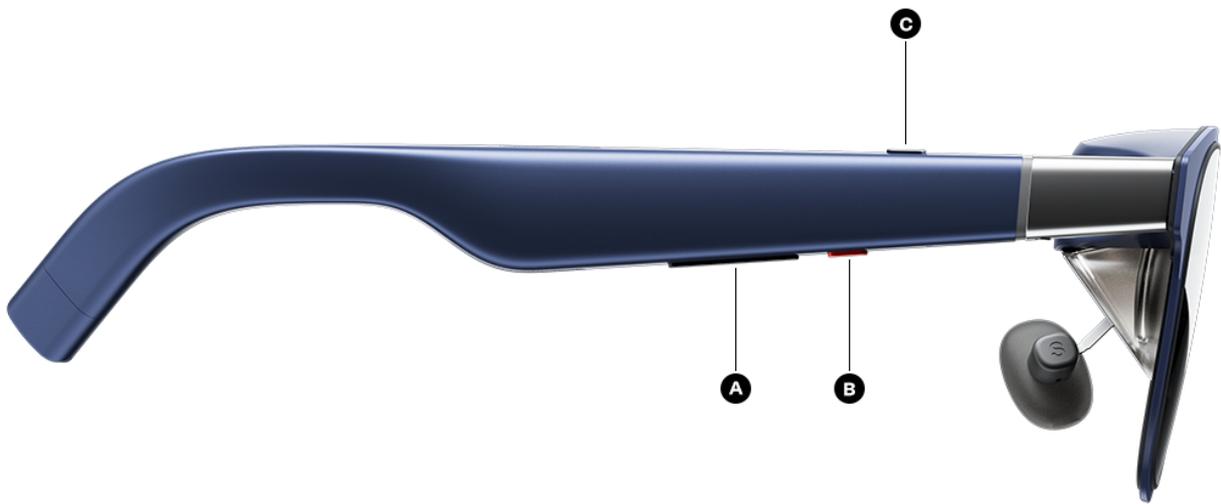
Hardware Components



Note: Do not apply pressure to the lenses, as this may damage the optical components.

Specifications

Hardware Components



A + / - Button

B X Button

C Quick Button

Basic Parameters

Hardware Specifications

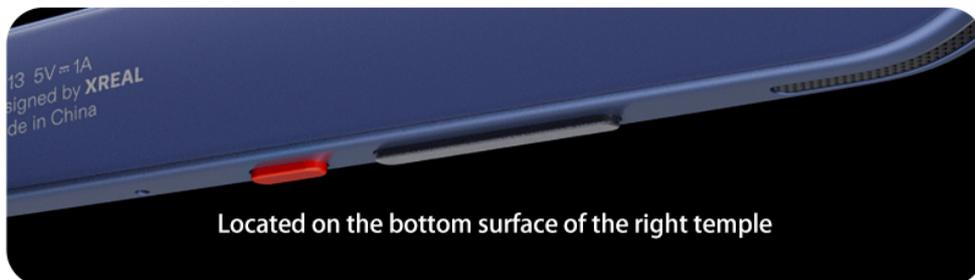


Button

Click: Cycle through display modes (Gimbal Mode, Follow Mode); if "Mini-Window Mode" is enabled, cycle through Gimbal, Follow, and Mini-Window modes.

Double Press: Summon the OSD menu; double press again while in the OSD menu to return to the previous level.

Long Press: Screen calibration (only effective in Follow Mode).



Button

Click: Summon the Quick Options menu to adjust "Brightness," "Electrochromic Dimming," and "Volume." Use the X-Button to select the desired option, then use the +/- buttons to adjust to the preferred level.



Quick Button

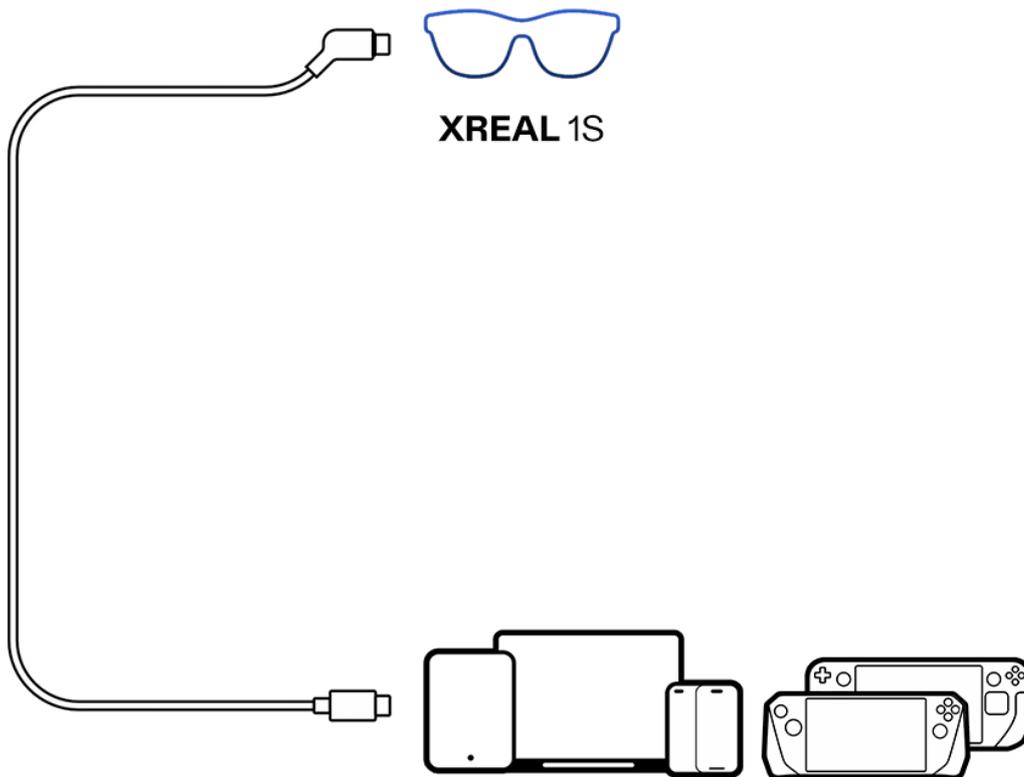
Click: Customizable shortcut; Default: Ultra-wide Screen

Long Press: Customizable shortcut; Default: No Function

Double Press: Customizable shortcut; Default: No Function

How to Use

Powering On / Off



Mobile & PC: Smartphones, tablets, and computers with a DP-supported USB-C port.

Handheld Consoles: Steam Deck, Steam Deck OLED, ROG Ally, etc.

XREAL 1S does not have a built-in battery.

It is powered by the connected device (phone, PC, etc.).

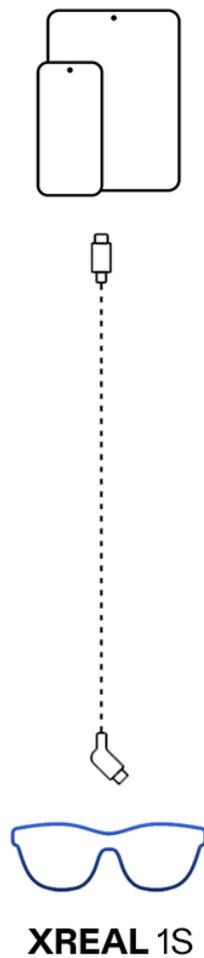
The glasses will automatically power on when connected and power off when the cable is disconnected.

NOTE: Do not connect the glasses directly to a power outlet or a power bank.

How to Use

Android Phones & Tablets

Android Phones & Tablets

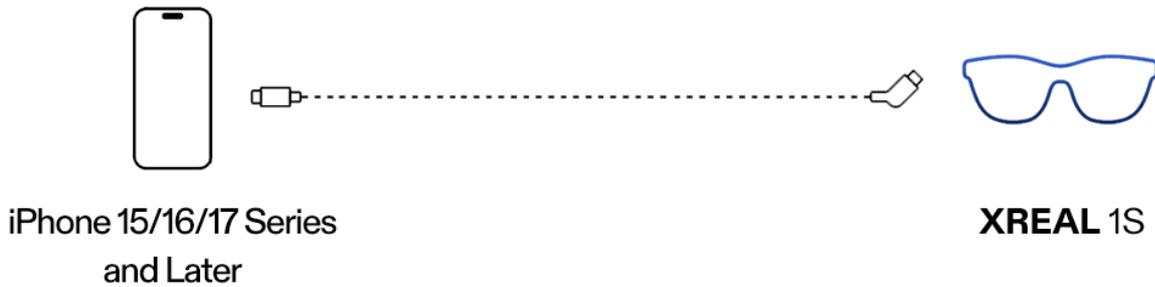


XREAL 1S can be directly connected to mobile devices (smartphones, tablets, etc.) via a USB-C port that supports the DisplayPort (DP) Alt Mode digital video protocol.

Compatibility Check: If you are unsure whether your device supports the DP protocol, please consult your device manufacturer's customer service for confirmation.

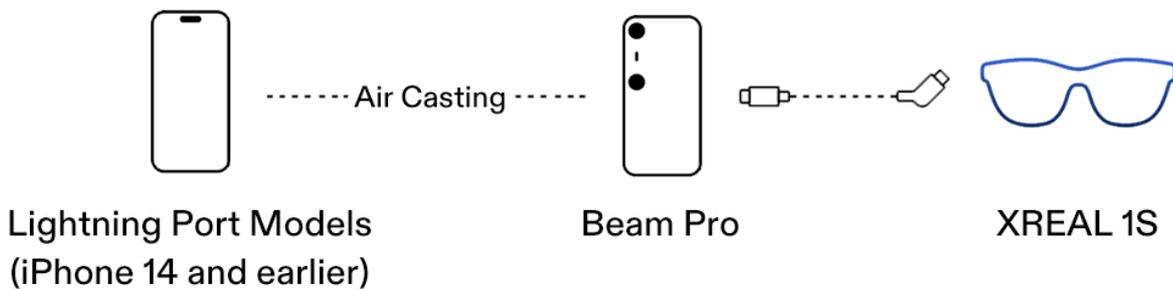
How to Use

Connecting Apple Devices



iPhone 15/16/17 series and later models can be directly connected to XREAL 1S for screen mirroring via the USB-C port.

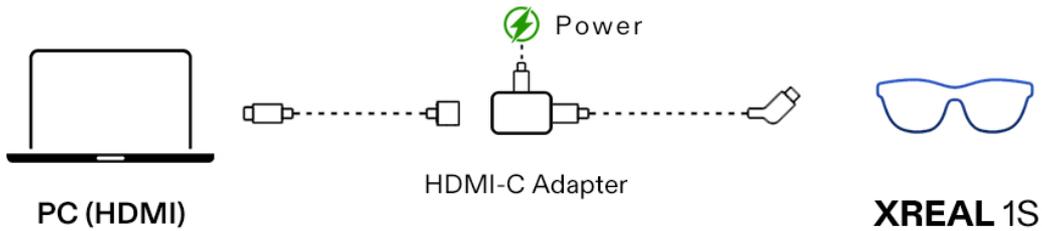
Note: The device must support DisplayPort (DP) Alt Mode.



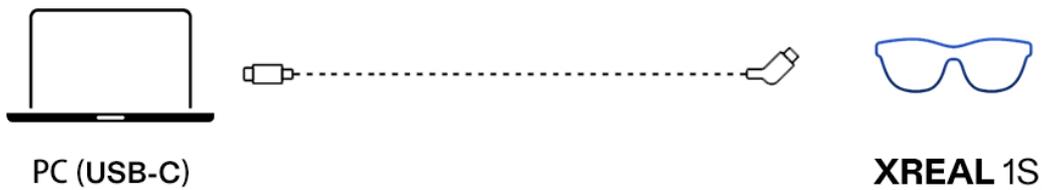
Due to the limitations of the Lightning port, these models cannot be directly connected to XREAL 1S. You may purchase Beam Pro for wireless screen mirroring (Air Casting).

How to Use

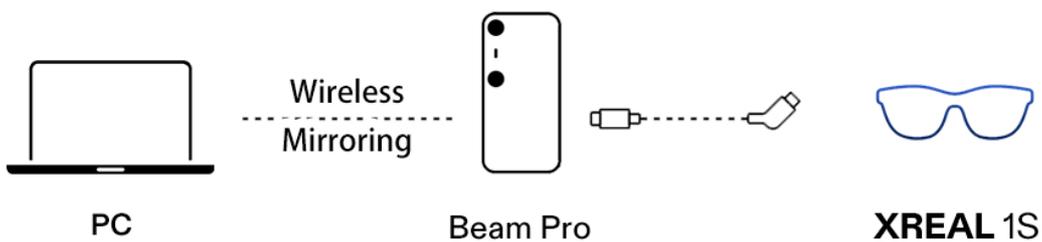
Connecting to a PC/Mac



PCs with an HDMI port can be connected to XREAL 1S using an HDMI-to-C Adapter.



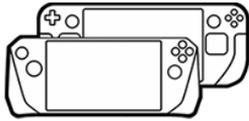
PCs equipped with a USB-C port that supports DisplayPort (DP) Alt Mode can be directly connected to XREAL 1S.



PCs that support Miracast or AirPlay protocols can be used with XREAL 1S via Beam Pro for wireless screen mirroring.

How to Use

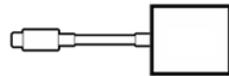
Connecting Gaming Devices



SteamDeck / ROG Handhelds

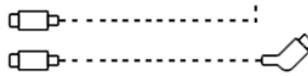
XREAL 1S

Steam Deck, ROG Ally, and other handhelds support a direct connection to XREAL 1S.



XREAL Hub

Power/Power Bank

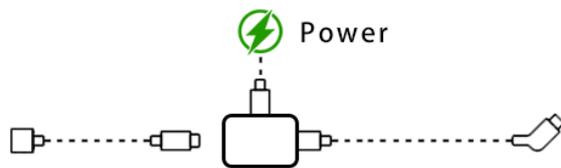
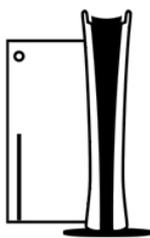


Switch / Switch OLED

XREAL 1S

Switch / Switch OLED must be paired with the official XREAL Hub to connect to XREAL 1S.

(Note: An external power source/power bank is required for the Hub.)



HDMI-C Adapter

Power



PlayStation / XBOX

XREAL 1S

PlayStation and Xbox can be connected to XREAL 1S using an HDMI-to-C Adapter.

(Note: The adapter requires a power connection.)

How to Use

OSD (On-Screen Display) Overview



Spatial
Screen

Display

Sound

My

Other



< Spatial Screen



Screen Size

154" >



Screen Distance

4m >



3D Mode

OFF >



UltraWide Mode

OFF >



X Button



+

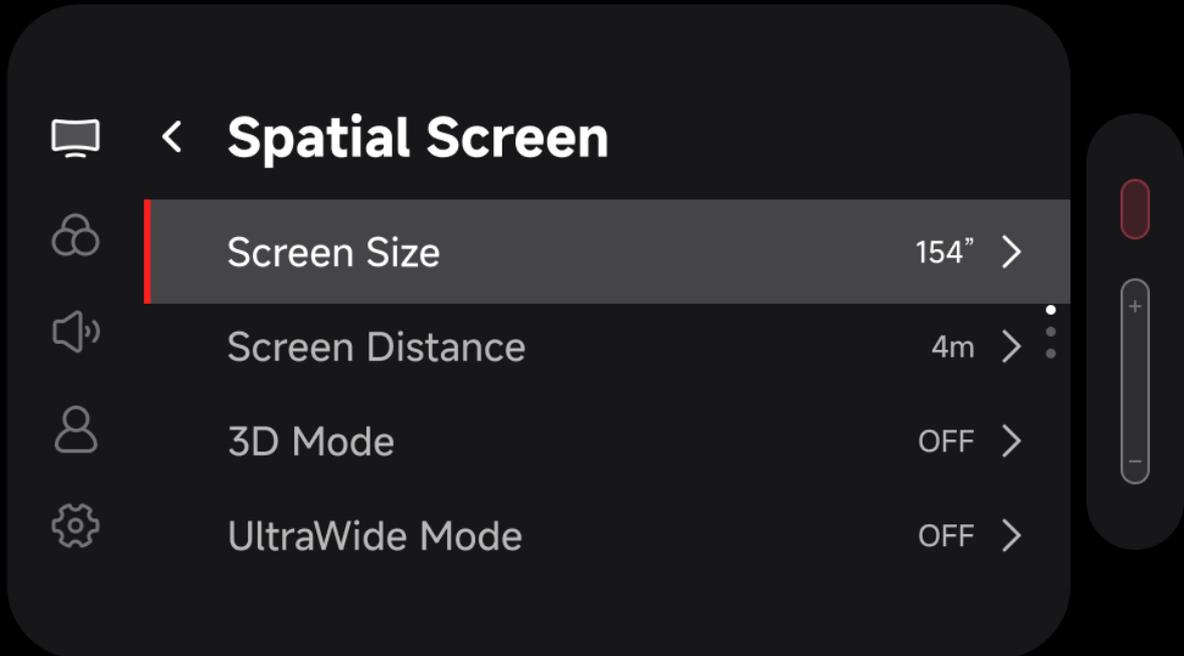


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Use the **+** **-** buttons to navigate, the **X** button to confirm, and double-click the **X** button to exit the OSD menu.

How to Use

OSD & Spatial Display



Screen Size

Adjustable from 31" to 500" to suit various viewing scenarios.

Screen Distance

Supports 1m to 10m adjustment for clear viewing at any range.

3D Mode

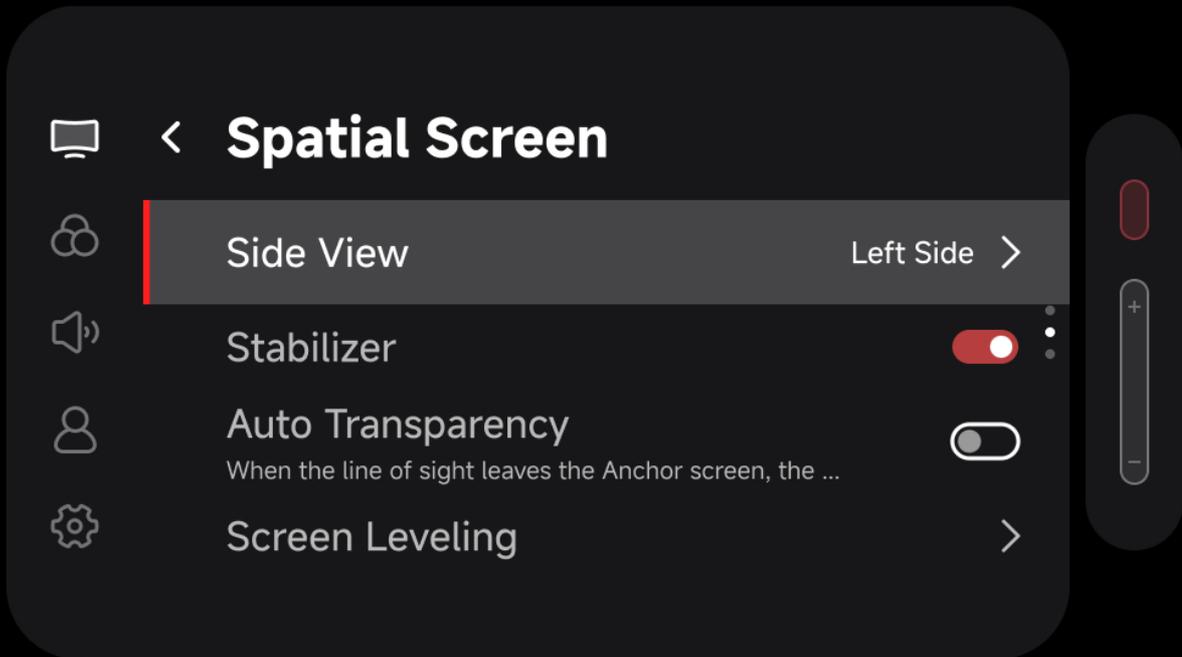
Supports Full-SBS/Half-SBS video and Real 3D feature, what we call 2D-to-3D conversion, for an immersive stereoscopic experience.

UltraWide Mode

Toggle between 16:18, 21:9, and 32:9 aspect ratios for enhanced immersion.

How to Use

OSD & Spatial Display



Side View

Shrink and pin the display window to the top-left or top-right corner of your vision. This allows for efficient multitasking while keeping your content in view.

Stabilizer

Ensures a stable and clear image by counteracting head movements or vibrations, providing a smooth, blur-free visual experience.

Auto Transparency

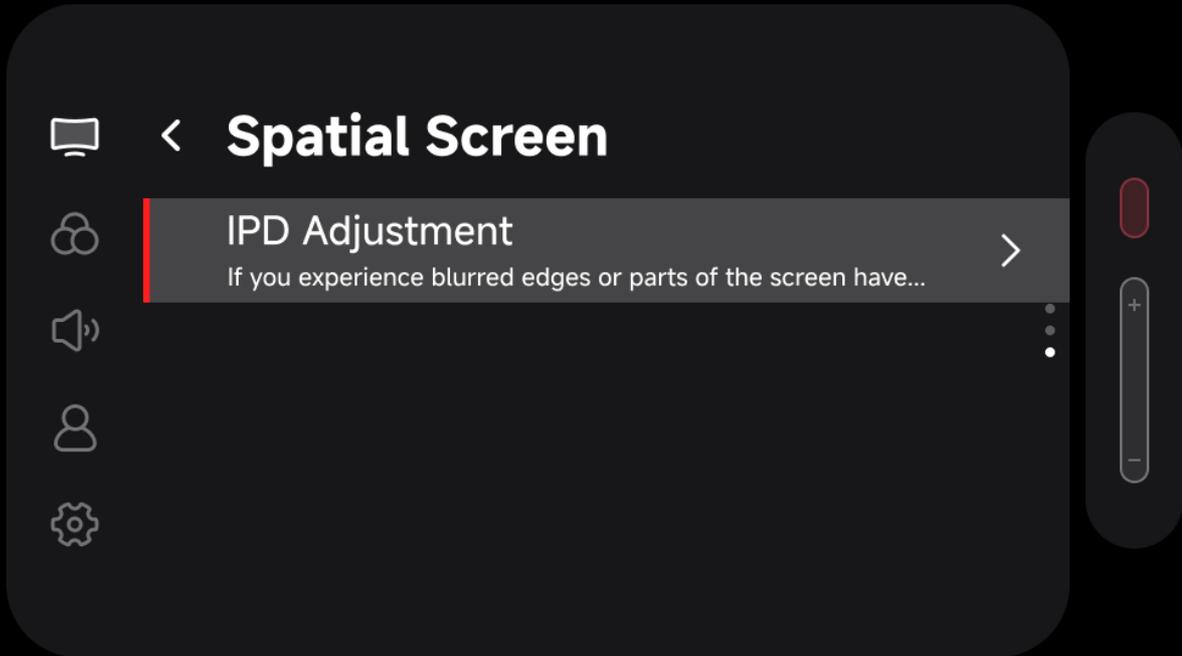
Intelligently adjusts the electrochromic lenses based on ambient light, ensuring a natural and comfortable viewing experience in any environment.

Screen Leveling

Allows for fine-tuning of the horizontal alignment in Body Anchor (Hover) mode, ensuring a precise and level perspective at all times.

How to Use

OSD & Spatial Display

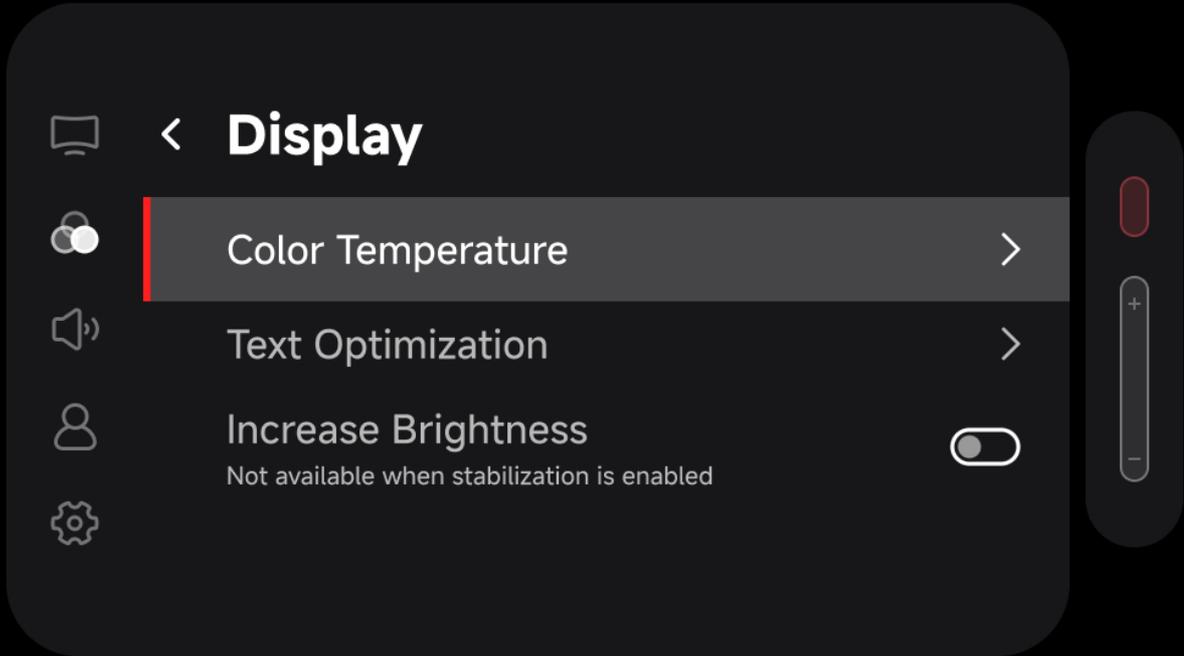


IPD Adjustment

Customize settings to match your actual Interpupillary Distance (IPD), ensuring a more comfortable and personalized fit for a wider range of users.

How to Use

OSD & Display



Color Temperature

Color Temperature Adjustment: Intelligently adjusts the screen's color temperature based on ambient lighting for a more comfortable and natural viewing experience.

Text Enhancement

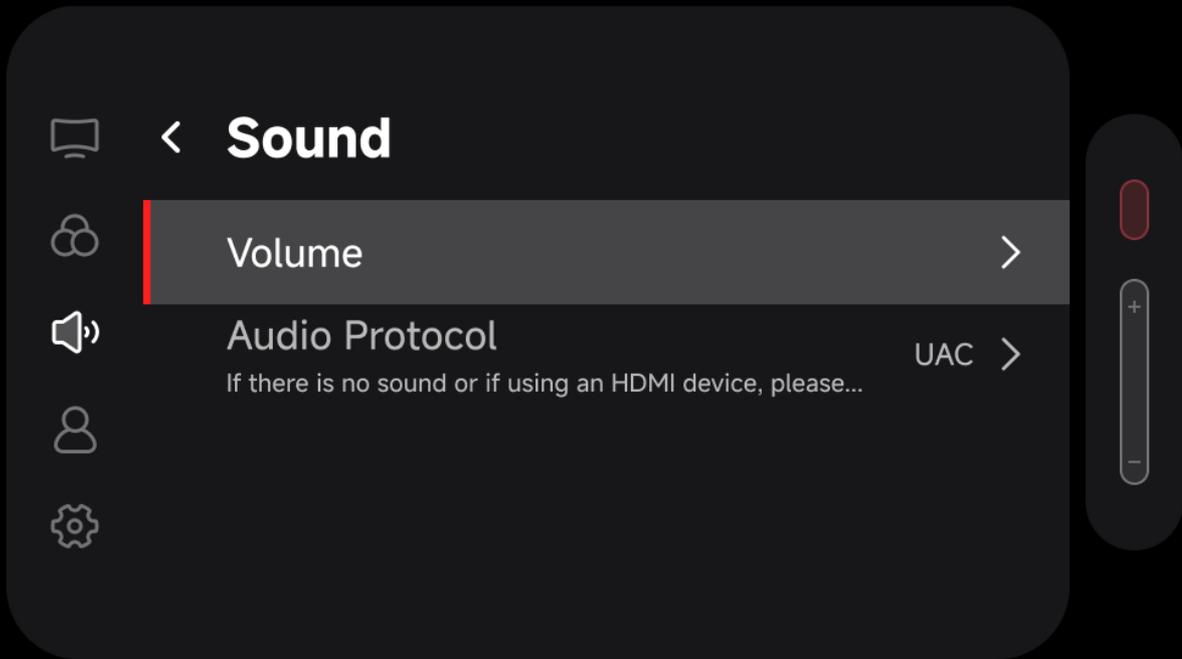
Text Enhancement: Improves text clarity and sharpness, making reading effortless and reducing eye strain.

Brightness Boost

Enhances image brightness to ensure a naturally vivid and clear display, even in well-lit environments.

How to Use

OSD & Sound



Volume

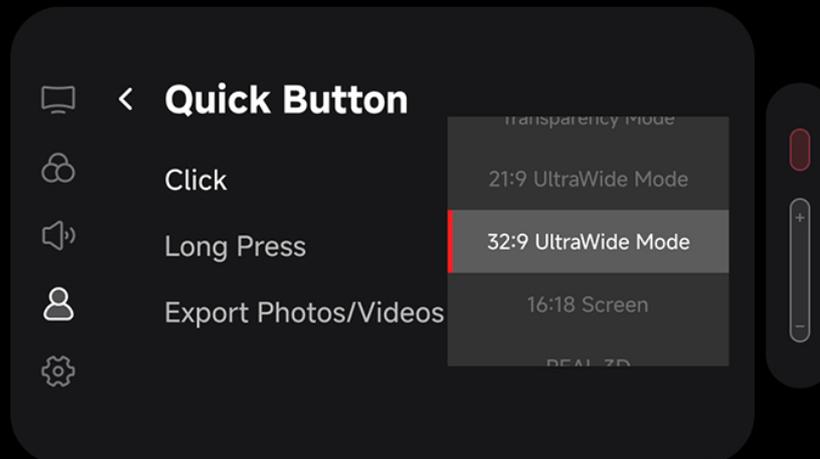
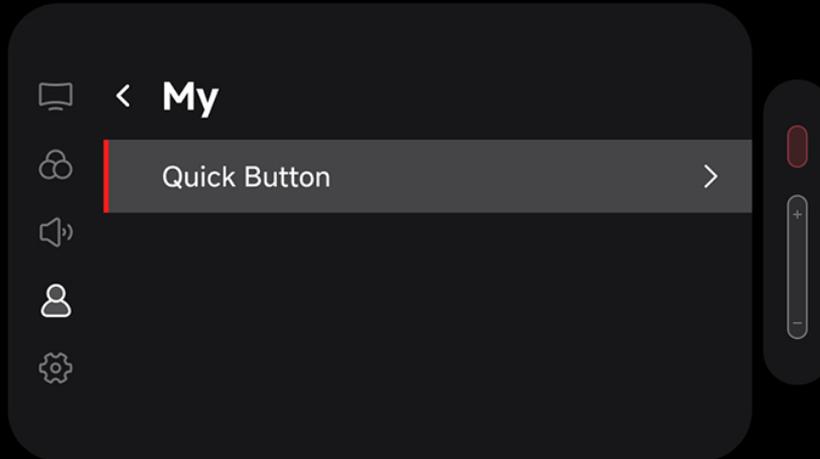
Adjust the volume freely to suit various environments and listening preferences.

Audio Protocol

Supports both DP (DisplayPort) Audio and UAC (USB Audio Class) protocols for enhanced compatibility, ensuring clear and stable sound transmission.

How to Use

OSD & My



Customize shortcut functions to match your usage habits for a more flexible and convenient operating experience.

Click

Defaults to UltraWide Mode switching. You can also reassign this to your preferred function for maximum flexibility.

Long Press

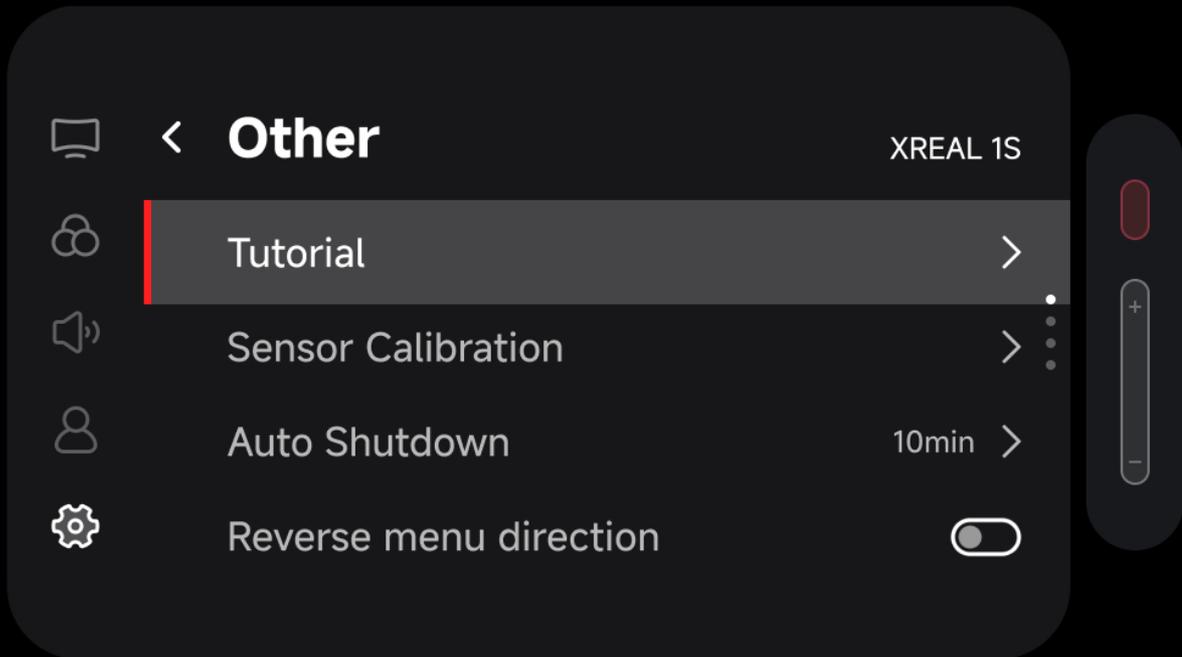
Set as a custom shortcut for quick access to features like Display Settings, making operation faster and more efficient.

Double Press

Also customizable for dedicated shortcut actions, providing a streamlined and time-saving user experience.

How to Use

OSD & Other



Tutorial

Built-in tutorials demonstrate button functions and step-by-step operations, helping you quickly master daily usage.

Sensor Calibration

For accurate tracking and recognition, we recommend periodic sensor calibration based on usage frequency to enhance your overall experience.

Auto Shutdown

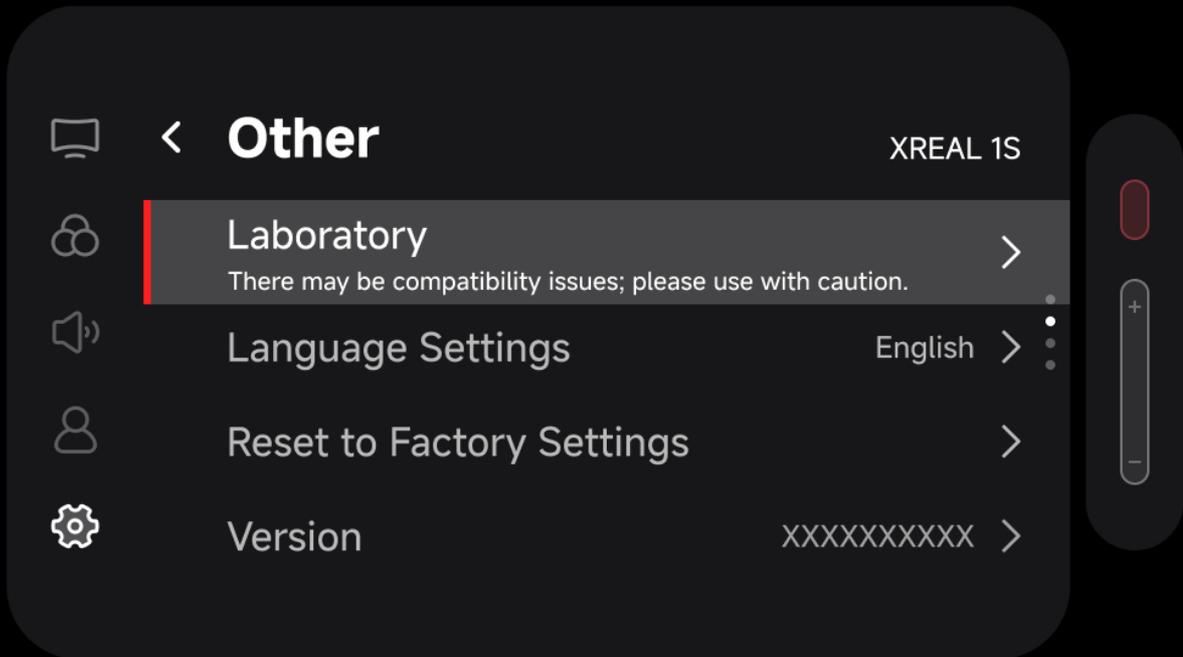
To conserve energy, the device will automatically power off after a prolonged period of inactivity.

Reverse Menu Direction

Allows you to reverse the navigation logic (e.g., "+" to scroll down, "-" to scroll up) to match different user habits and personal preferences.

How to Use

OSD & Other



Laboratory

Allows customization of options such as "Default DP" and "Default Ultrawide." Once configured, the system remembers your settings to reduce repetitive tasks.

Language Settings

Supports multi-language switching, allowing you to choose freely based on your needs to improve operational familiarity.

Reset to Factory Settings

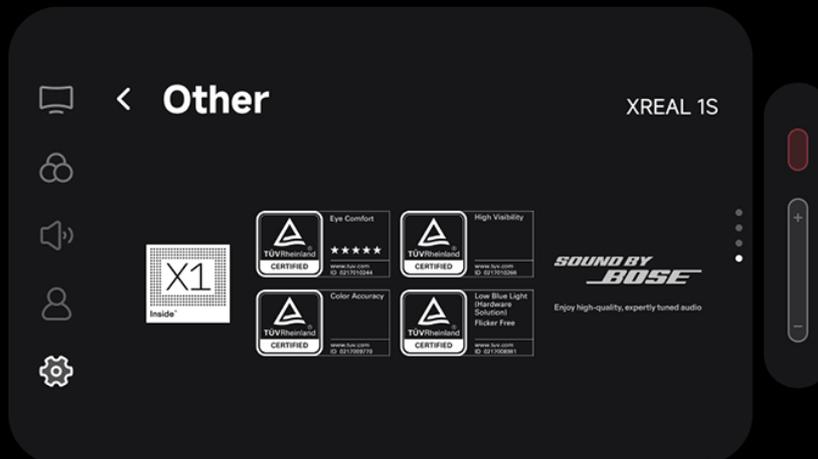
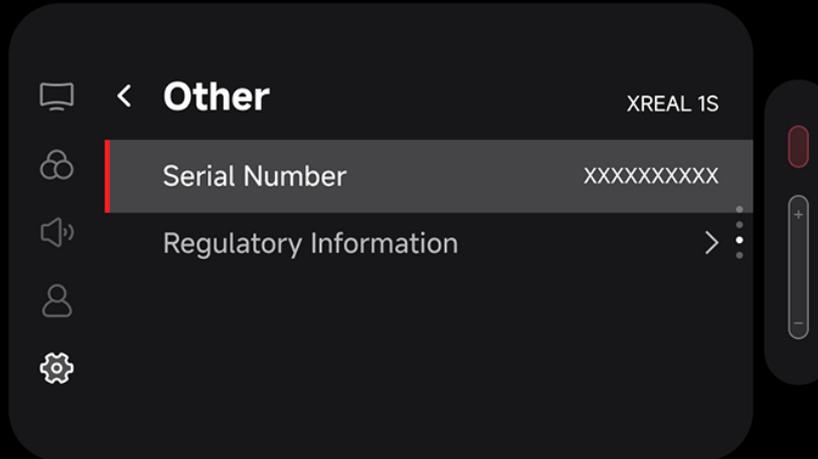
Restores the device to factory settings and resets all personalized configurations, returning the system to its initial state.

Version

Used to view the current firmware version, making it easy to track update history and maintenance information.

How to Use

OSD & Other



Serial Number

Serial Number: A unique identification code for the device, facilitating after-sales service and device management.

Regulatory Information

Regulatory Information: Contains various regulations and certifications the device complies with, ensuring safety and compliance for greater peace of mind.

FAQ

Q How to turn the Glasses on/off?

A Plug and play, the XREAL 1S does not have a built-in battery. When connected to a compatible device (such as a phone, tablet, or computer), the device will power the XREAL 1S and it will turn on automatically. Once the cable is unplugged, the power stops and the glasses will turn off.

Q Can my existing XREAL prescription lenses work with XREAL 1S?

A XREAL 1S uses the same prescription lens design as the XREAL One, but it is incompatible with earlier models (such as the Air series). If you have lenses for the One, they can be used directly with XREAL 1S. For other older models, we recommend getting new prescription inserts specifically designed for the latest generation.

Q How can I update the firmware?

A Via Computer: You can use a Windows or Mac computer to access the official update page at xreal.com/ota. Switch the language in the top-right corner, click "Connect" to authorize, and then click "Update Now." The update process is expected to take about 5 minutes.

With XREAL Beam Pro: Please ensure your Beam Pro is connected to Wi-Fi. When XREAL 1S is connected to the Beam Pro, the system will automatically detect and prompt for a firmware update. Follow the on-screen instructions to complete the process.

Contact Us



Join Us

Join the XREAL community, connect with users!



Contact by Email

Email: support@xreal.com

Collaboration Email: business@xreal.com

You can also get in touch with us in the following ways

