XREAL xbx a01+

XREAL xbx a01+ AR Glasses User Manual

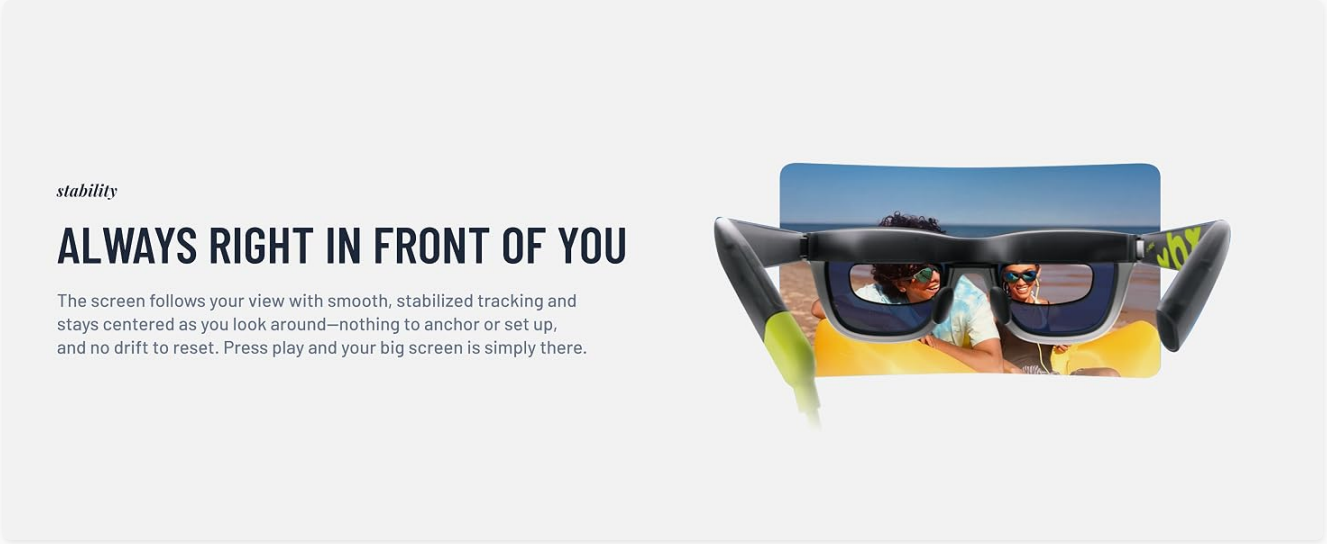
Introduction

Welcome to the XREAL xbx a01+ AR Glasses user manual. This guide provides essential information for setting up, operating, maintaining, and troubleshooting your AR glasses. The XREAL xbx a01+ offers a portable 147-inch big-screen display experience, weighing only 62g, with bright 1600-nit HDR10 Micro-OLED panels. Please read this manual thoroughly before using your device to ensure optimal performance and safety.

What's in the Box

Verify that all items are present in your XREAL xbx a01+ package:

- xbx a01+ AR Glasses
- Nose Pad (S/M/L) and C-C Cable
- Cleaning Cloth and Lens Shade
- User Manual (this document)



The image above displays the XREAL xbx a01+ AR Glasses and all included accessories, such as the nose pads, USB-C cable, cleaning cloth, and lens shade, neatly arranged.

Setup

1. Adjusting Nose Pads

Select the nose pad size (S, M, or L) that provides the most comfortable and secure fit for your face. A proper fit ensures optimal display alignment and comfort during extended use.

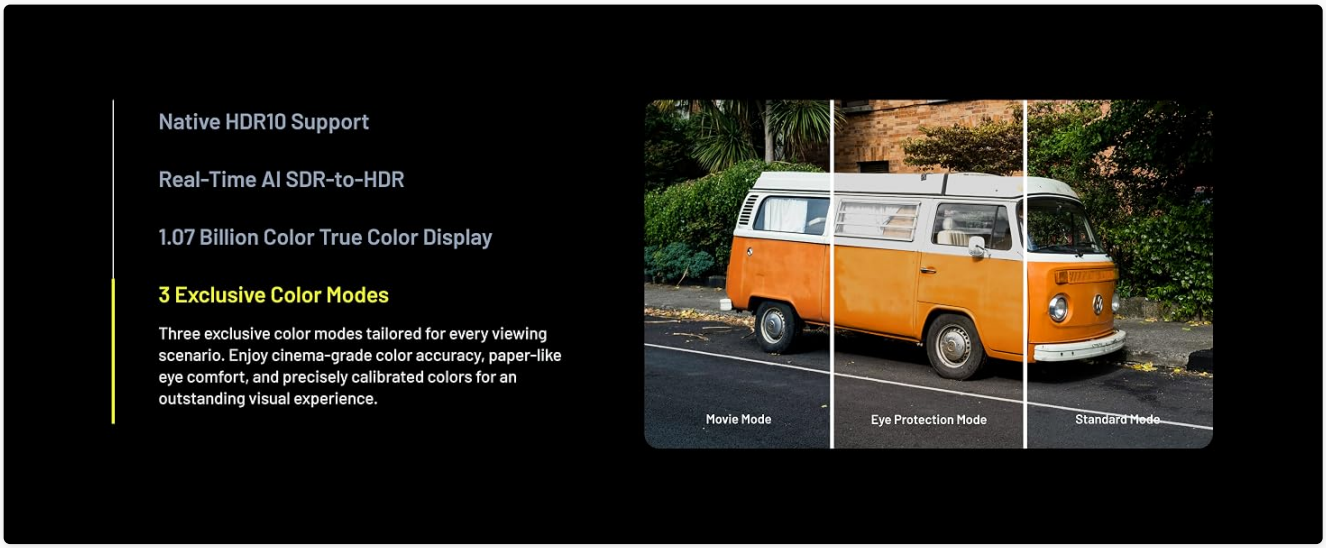


This image shows the three interchangeable nose pads (Small, Medium, Large) that come with the glasses, allowing users to customize the fit for comfort and display clarity.

2. Connecting to Devices

The XREAL xbx a01+ AR Glasses connect directly via a single USB-C DisplayPort cable. Ensure your device supports USB-C DisplayPort output.

- **Direct Connection:** Compatible with iPhone 15/16/17, iPad, DP-capable Android phones, Steam Deck, ROG Ally, Mac, and PC.
- **Adapter Required:** Nintendo Switch/Switch 2 and older (Lightning) iPhones require an adapter for connectivity.
- **Charging during use:** For extended phone sessions, the XREAL Hub (sold separately) allows simultaneous charging and viewing.



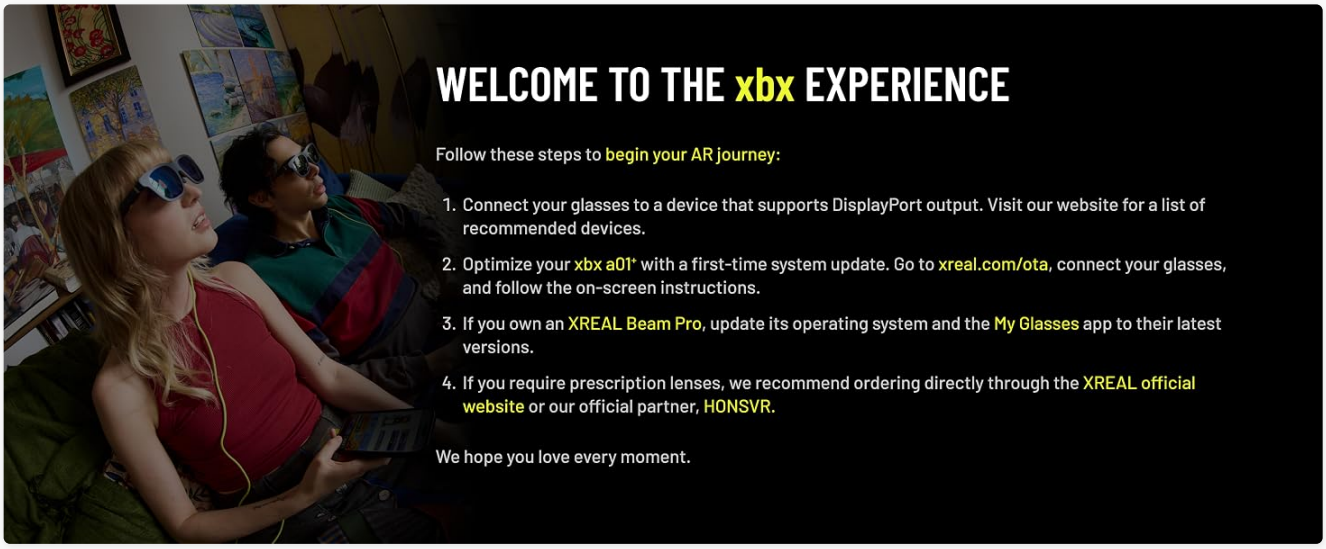
The image illustrates the versatility of the XREAL xbx a01+ AR Glasses, showing them connected to a range of devices such as an iPhone, iPad, Steam Deck, and Nintendo Switch, highlighting the single USB-C cable connection.

3. Initial System Update

For optimal performance, perform a first-time system update. Connect your glasses to a compatible device, then visit xreal.com/ota and follow the on-screen instructions.

4. Prescription Lenses (Optional)

If you require prescription lenses, these can be added to the glasses. We recommend ordering prescription inserts directly through the XREAL official website or their official partner, HONSVR.



This image shows the XREAL xbx a01+ AR Glasses from the back, with a pair of prescription lens inserts displayed below, indicating their compatibility and ease of integration.

Operating Instructions

1. Display Features

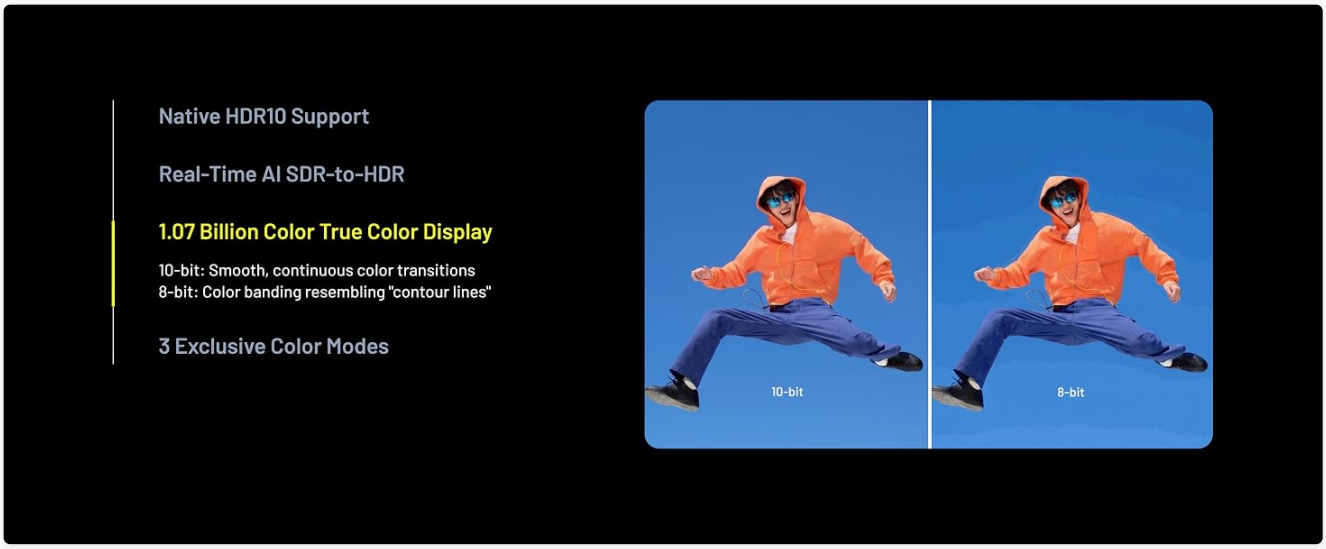
The xbx a01+ AR Glasses provide a virtual 147-inch display. Key display features include:

- **Micro-OLED Panels:** Dual Full HD 1080p-per-eye Micro-OLED panels.
- **Brightness:** Up to 1600 nits across 14 brightness levels.
- **HDR10 Support:** Native HDR10 capabilities for enhanced depth and color.
- **Real-time SDR-to-HDR:** A dedicated Pixelworks processor upscales content to HDR in real-time.
- **Color Modes:** Three exclusive color modes (Movie, Eye Protection, Standard) are available for different viewing scenarios.



This image highlights the bright, vivid, and cinematic display of the XREAL xbx a01+ AR Glasses, emphasizing the

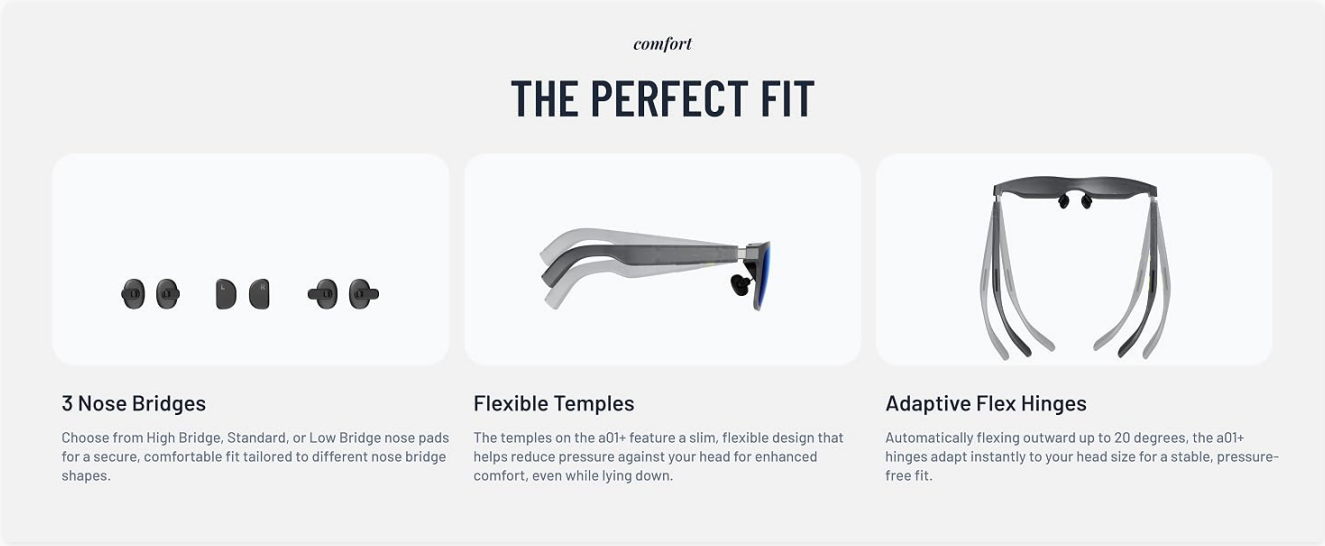
1600 nits brightness and Full-HD Micro-OLED technology.



The image demonstrates the visual differences between the three exclusive color modes: Movie Mode for cinema-grade accuracy, Eye Protection Mode for comfort, and Standard Mode for balanced viewing.

2. Screen Tracking

The virtual screen follows your view with smooth, stabilized tracking. It remains centered as you look around, eliminating the need for anchoring or setup. Simply press play, and the big screen is present.

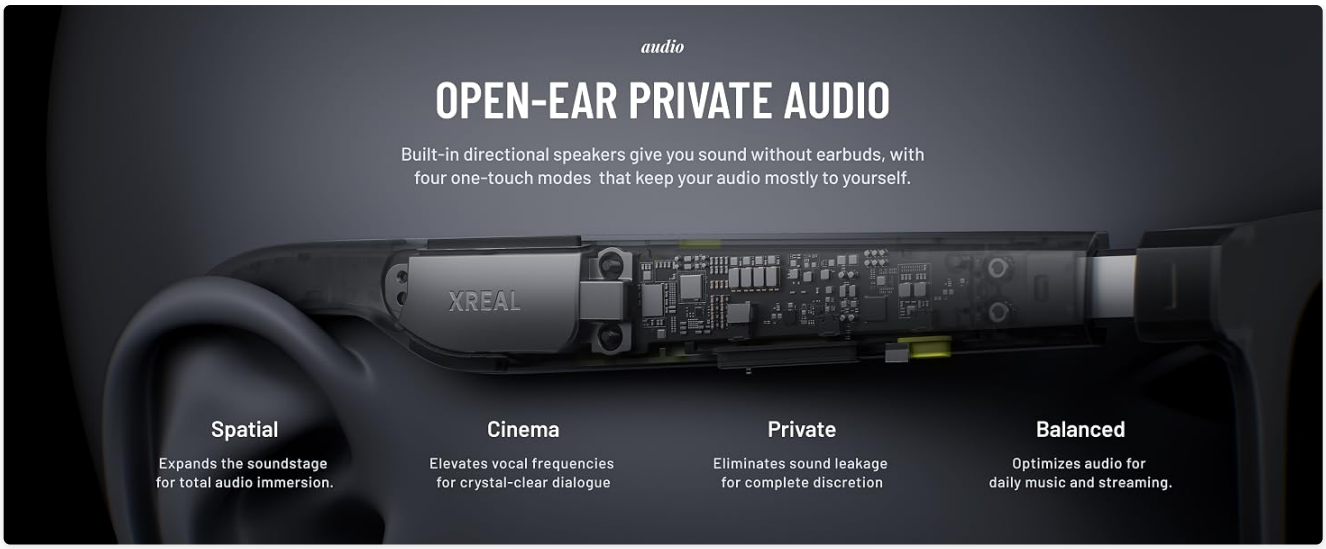


This image illustrates the 'Always Right In Front Of You' feature, where the virtual screen within the glasses remains stable and centered relative to the user's head movements.

3. Audio

The glasses feature built-in directional speakers for open-ear private audio. Four one-touch modes are available:

- **Surround:** Expands the soundstage for immersive audio.
- **Whisper:** Reduces sound leakage for privacy.
- **Cinema:** Elevates vocal frequencies for clear dialogue.
- **Standard:** Optimized for daily music and streaming.



The image provides a detailed view of the open-ear private audio system within the glasses, highlighting the directional speakers and the four distinct audio modes.

4. Eye Comfort

Designed for comfortable viewing, the glasses incorporate:

- Flicker-free 3840Hz dimming.
- Low blue light emission.
- A relaxed 4-meter focal distance.
- TÜV Eye Comfort 5.0 certification.



This image emphasizes the four-layer eye protection features of the XREAL xbx a01+ AR Glasses, including TÜV 5-Star Eye Comfort and Low Blue Light certification, ensuring comfortable viewing.

Maintenance

1. Cleaning

Use the provided cleaning cloth to gently wipe the lenses and frame. Avoid abrasive materials or harsh chemicals, which can damage the surfaces.

2. Storage

When not in use, store the AR glasses in their protective case to prevent scratches and dust accumulation. Keep

them away from direct sunlight and extreme temperatures.

3. General Care

Handle the glasses with care to avoid dropping or impacting them. Do not expose them to water or other liquids. Ensure the USB-C port is clean and free of debris before connecting the cable.

Troubleshooting

If you encounter issues with your XREAL xbx a01+ AR Glasses, refer to the following common problems and solutions:

- **No Display/Black Screen:**
  - Ensure the USB-C cable is securely connected to both the glasses and your compatible device.
  - Verify that your device supports USB-C DisplayPort output. Some devices may require an adapter.
  - Check if your device's display settings are configured to output to an external display.
- **Blurry Image or Halo Effect:**
  - Adjust the nose pads to ensure the glasses sit correctly on your face, aligning the display with your eyes. Experiment with different nose pad sizes.
  - Ensure the lenses are clean using the provided cleaning cloth.
  - If you use prescription lenses, ensure they are correctly installed.
- **Audio Too Quiet or No Sound:**
  - Check the volume settings on your connected device.
  - Ensure the glasses' audio modes are set appropriately.
  - If using an adapter, ensure it supports audio passthrough.
- **Glasses Feel Warm During Use:**
  - It is normal for the glasses to generate some warmth during operation, especially during prolonged use. If the heat becomes excessive or uncomfortable, discontinue use and contact support.
- **Screen Does Not Stay Fixed (Follows Head Movement):**
  - The XREAL xbx a01+ features smooth, stabilized tracking where the screen follows your view. This is an intended feature and not a malfunction.

Specifications

Below are the technical specifications for the XREAL xbx a01+ AR Glasses:

Feature	Specification
Model Number	P1012
Display Type	Micro-OLED
Resolution	1920 x 1080 (Full HD per eye)
Screen Size (Virtual)	147 inches

Maximum Display Brightness	1600 nits
Special Features	Ultralight 62g, HDR10, Flicker-free 3840Hz dimming, Low Blue Light, TÜV Eye Comfort 5.0 certified
Connectivity Technology	USB-C DisplayPort Direct
Compatible Devices	iPhone (15/16/17), iPad, DP-capable Android phones, Steam Deck, ROG Ally, Mac, PC
Item Weight	62 g
Item Dimensions (D x W x H)	8.27" x 3.74" x 5"
Manufacturer	XREAL

Warranty and Support

1. Warranty Information

The XREAL xbx a01+ AR Glasses come with a 1-year limited warranty from the date of purchase. This warranty covers manufacturing defects under normal use. Please retain your proof of purchase for warranty claims.

2. Customer Support

For technical assistance, warranty service, or additional product information, please visit the official XREAL support website at xreal.com/support. You may also find FAQs and further resources there.