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› XREAL Air 2 AR Glasses User Manual

XREAL X1004

XREAL Air 2 AR Glasses User Manual

Model: X1004 | Brand: XREAL

1. INTRODUCTION

Welcome to the user manual for your XREAL Air 2 AR Glasses. These cutting-edge wearable display glasses offer an immersive visual experience, designed for gaming, streaming, and as a versatile alternative to traditional monitors. The XREAL Air 2 features a 130-inch wearable display, 120Hz refresh rate, and 1080P resolution, providing a cinematic experience in a lightweight 72g design. It is TÜV Rheinland-certified for Eye Comfort, Low Blue Light, and Color Accuracy, ensuring a healthier way to enjoy your digital content.

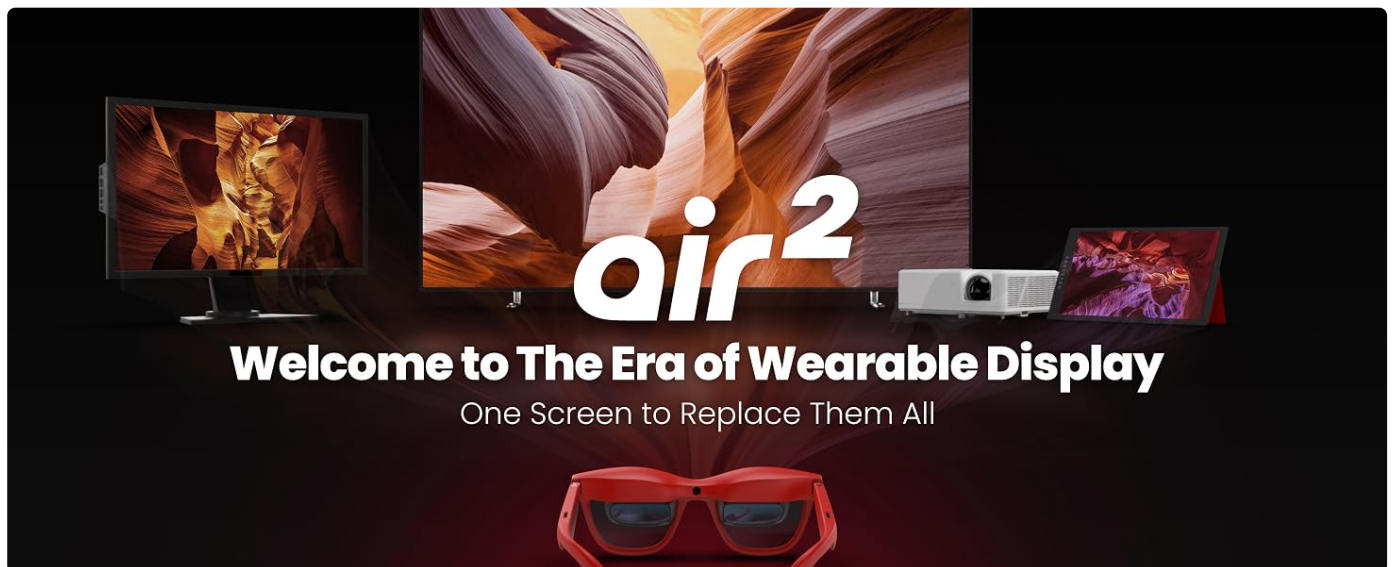


Image: Welcome to the Era of Wearable Display. The XREAL Air 2 glasses offer a large virtual screen experience.

2. WHAT'S IN THE BOX

Your XREAL Air 2 package includes the following components:

- Glasses unit
- Prescription Lens Frame

- Detachable USB Type-C Cable
- Light Shield
- Three types of Nose Pads (S/M/L)
- Travel Case
- Cleaning Cloth



Image: The XREAL Air 2 AR Glasses unit.

3. SETUP

3.1. Adjusting for Comfort

The XREAL Air 2 glasses are designed for all-day comfort. To ensure the best fit and visual experience, adjust the nose pads and temples.

1. **Nose Pads:** Select from the three included nose pad sizes (S, M, L) to find the one that provides a comfortable, zero-pressure fit and positions the display optimally for your eyes.
2. **Temples:** The ultra-soft temples are designed to fit various head sizes. Adjust them for a secure yet comfortable fit.

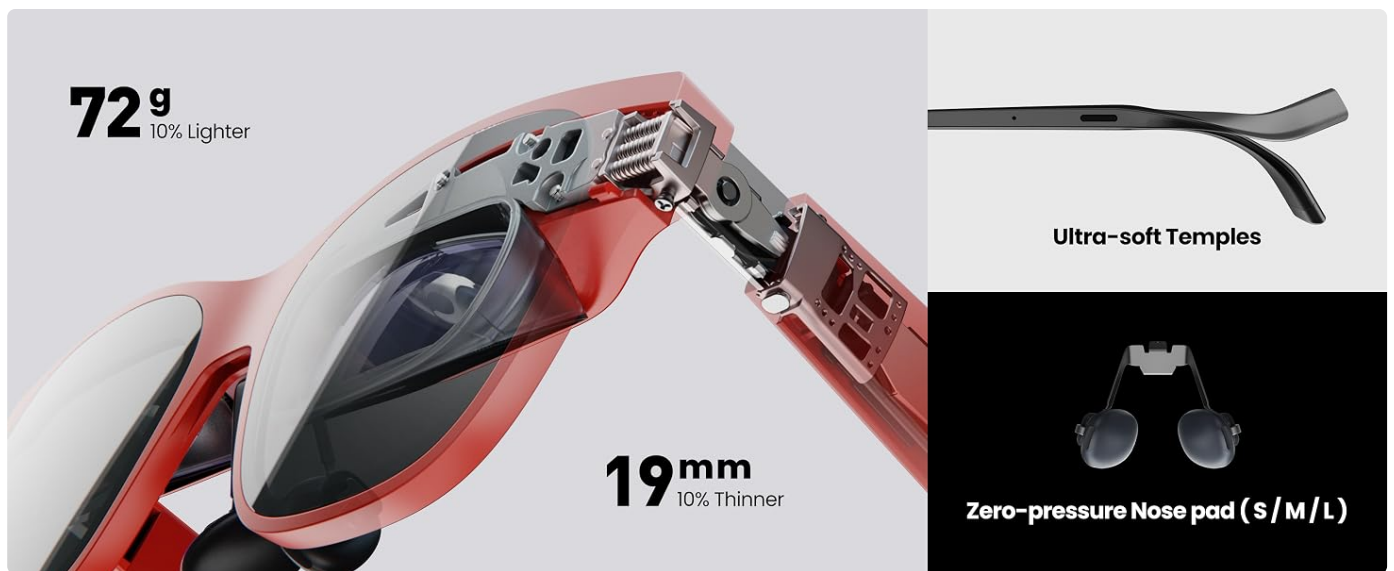


Image: Ergonomic features including lightweight design, ultra-soft temples, and zero-pressure nose pads.



Image: Glasses designed to fit heads of all sizes with 3-position temple adjustment.



Image: 1:1 Weight Distribution to further reduce pressure on your nose.

3.2. Connecting to Devices

The XREAL Air 2 glasses connect effortlessly to a wide range of devices via USB-C video output. For devices without

direct USB-C video output, additional accessories may be required.

- **Direct Connection (USB-C DisplayPort):** Connect directly to devices such as iPhone 15/16, iPad, select Android phones (with DP output), Steam Deck, ROG Ally, MacBook, and Windows PCs.
- **Via XREAL Adapter/Beam:** For devices with Lightning ports (iPhone 14 and earlier models) or HDMI output (Nintendo Switch, PlayStation 5, Xbox Series S/X, Windows PCs with HDMI), an XREAL Adapter or XREAL Beam (sold separately) is necessary.

COMPATIBILITY

Directly connect to any device with USB-C video output



Connect via XREAL Adapter to Lightning and HDMI ports

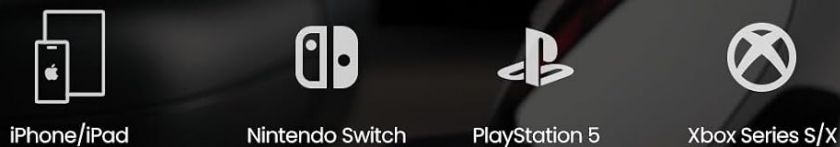


Image: Expansive Compatibility with various devices.



Image: Smart Phone / Tablet Compatibility details.

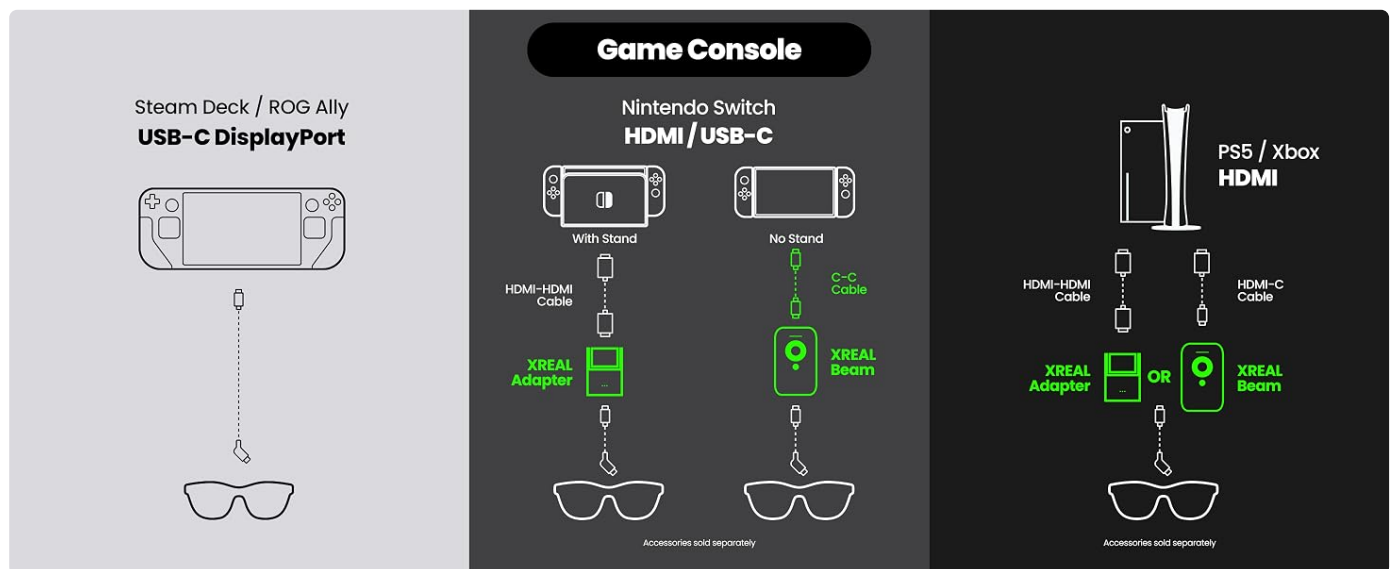


Image: Game Console Compatibility details.

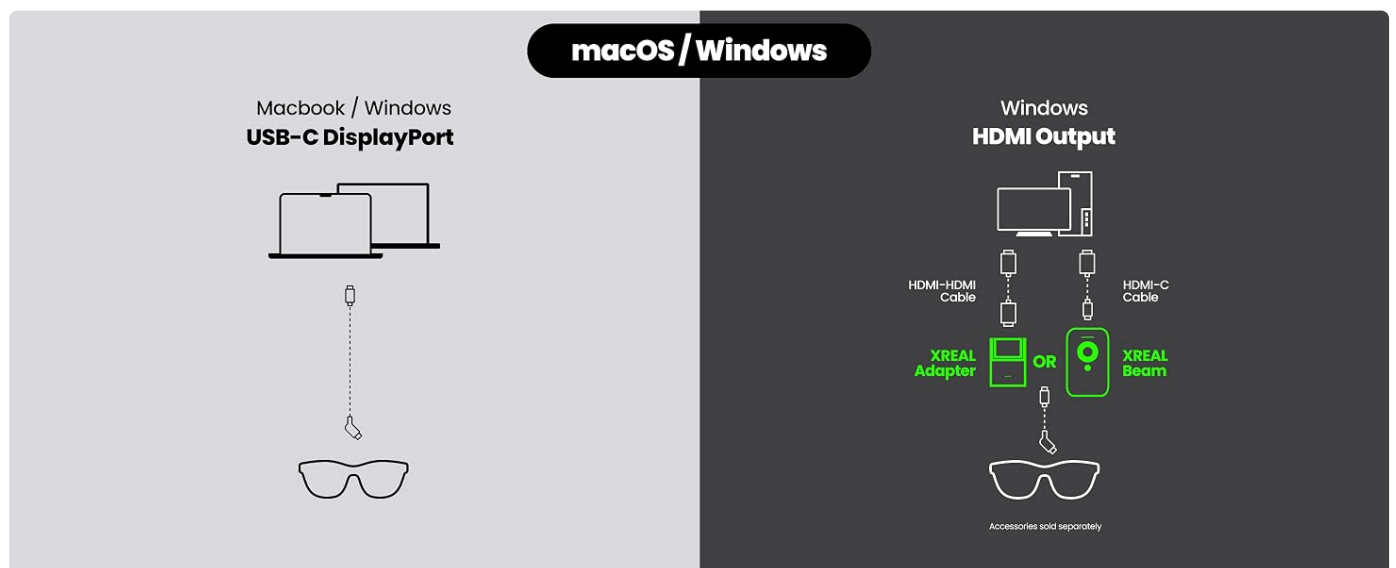


Image: macOS / Windows Compatibility details.

4. OPERATING THE XREAL AIR 2

4.1. Display Features

The XREAL Air 2 provides a large, vibrant display experience.

- **Virtual Screen Size:** Enjoy a 130-inch virtual screen at a perceived distance, offering an expansive view for all your content.
- **High Refresh Rate:** The 120Hz refresh rate ensures smooth motion and a fluid visual experience, ideal for fast-paced gaming and video.
- **Eye Comfort:** Certified by TÜV Rheinland for Eye Comfort, Low Blue Light, and Color Accuracy, the display is designed to reduce eye strain during extended use.
- **Color Accuracy:** Experience life-like colors with professional-grade color accuracy, ensuring a crisp and vivid picture.



Image: Spatial Display features of XREAL Air 2.



AR Optic Technologies

Built with the latest Micro-OLED panels from SONY and industry-leading AR optic technologies

49 PPD **1080** FHD **100,000:1** High Contrast **500** Nits

Image: AR Optic Technologies and display specifications.



Professional-grade Color Accuracy

Experience life-like colors that are fine-tuned to deliver a crisp and vivid picture.
 $\Delta E_{2000} < 3$: Each pair of glasses undergoes uniform color calibration to ensure a high level of color accuracy.



Image: Professional-grade Color Accuracy with TÜV Rheinland certification.

A Healthier Way to Enjoy Your Digital Life

Eye Comfort | Neck Comfort | Body Comfort



Image: A Healthier Way to Enjoy Your Digital Life, highlighting eye and body comfort.

4.2. Audio System

The XREAL Air 2 features an advanced cinematic sound system.

- **Immersive Audio:** Delivers rich and immersive sound for an enhanced media experience.
- **Directional Audio Technology:** Reduces sound dispersion, providing better privacy and minimizing disturbances to those around you.

Cinematic Sound

The all-new audio system delivers a rich spatial sound like never before.

Directional Audio Technology reduces sound leakage.

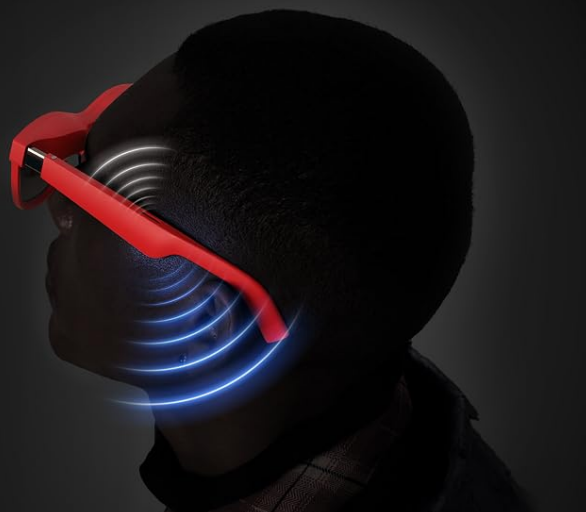


Image: Cinematic Sound system with directional audio technology.

4.3. Vision Correction

For users requiring vision correction, the XREAL Air 2 is compatible with prescription lens inserts.

- The included Prescription Lens Frame can be fitted with custom prescription lenses by an optician.
- XREAL Air 2 is compatible with the XREAL Air prescription lens insert.

Vision Correction

Order Prescription Lenses From Our Official Partner



XREAL Air 2 is compatible with the XREAL Air prescription lens insert



Image: Vision Correction options for XREAL Air 2.

5. MAINTENANCE

Proper maintenance will ensure the longevity and optimal performance of your XREAL Air 2 glasses.

- **Cleaning:** Use the provided cleaning cloth to gently wipe the lenses and frame. Avoid abrasive materials or harsh chemicals that could damage the surfaces.
- **Storage:** When not in use, store your XREAL Air 2 glasses in the included travel case to protect them from dust, scratches, and impacts.
- **Handling:** Always handle the glasses with care, avoiding excessive force or bending of the frame.
- **Temperature:** Avoid exposing the glasses to extreme temperatures, both hot and cold, as this can affect internal components.

6. TROUBLESHOOTING

If you encounter issues with your XREAL Air 2 glasses, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Display / Black Screen	- Loose cable connection. - Incompatible device or port. - Device not outputting video.	- Ensure the USB-C cable is securely connected to both the glasses and the source device. - Verify your device supports USB-C DisplayPort output or use the appropriate XREAL Adapter/Beam. - Check your device's display settings to ensure external display output is enabled.
No Audio	- Device audio output not set to XREAL Air 2. - Volume too low.	- Check your device's audio output settings and select the XREAL Air 2. - Increase the volume on your connected device.
Blurry or Distorted Image	- Improper nose pad fit. - Dirty lenses.	- Adjust the nose pads to ensure the glasses are positioned correctly on your face. - Clean the lenses gently with the provided cleaning cloth.

For further assistance, please visit the official XREAL support website or contact customer service.

7. SPECIFICATIONS

Feature	Detail
Model Number	X1004
Product Dimensions	4.72 x 3.94 x 1.97 inches
Item Weight	2.65 ounces (72g)
Display Type	Micro-OLED
Resolution	1080P FHD
Refresh Rate	120Hz
Brightness	Up to 500 nits
Field of View	46 degrees
Pixel Density	49 Pixels per degree (PPD)
Manufacturer	XREAL
Country of Origin	China

air²

**Newest and Lightest
All-day Comfort**

air

All The Essential

Weight

72g

79g

Ergonomic
Design

Zero-pressure Nose pad (S/M/L)
Ultra-soft 3-Position Temples

Nose pad (S/M/L)
3-Position Temples

Audio

Gen-2 Sound System with richer,
more immersive audio
Directional Audio Technology

Gen-1 Sound System with
rich and crystal clear audio

Display

Latest 0.55 Micro-OLED Panel
Professional-grade Color Accuracy

0.68 Micro-OLED Panel

Up to 500 nits
46 Field of view
49 Pixel per degree

Up to 400 nits
46 Field of view
49 Pixel per degree

Image: Comparison of XREAL Air 2 with previous generation XREAL Air.

8. OFFICIAL PRODUCT VIDEOS

Watch these official videos for more information on your XREAL Air 2 AR Glasses.

XREAL Air 2 AR Glasses (Formerly Nreal)

Your browser does not support the video tag.

Video Description: An 8-second overview of the XREAL Air 2 AR Glasses, previously known as Nreal. This short clip provides a quick look at the product.

Ensure Comfort with XREAL Glasses

Your browser does not support the video tag.

Video Description: This 87-second video demonstrates how to ensure optimal comfort when wearing XREAL glasses, focusing on ergonomic adjustments.

XREAL Air 2 AR Glasses

Your browser does not support the video tag.

Video Description: A comprehensive 5-minute video providing a detailed overview of the XREAL Air 2 AR Glasses, covering various features and use cases.

9. WARRANTY AND SUPPORT

For detailed warranty information regarding your XREAL Air 2 AR Glasses, please refer to the warranty card included in your product packaging or visit the official XREAL website.

If you require technical support, have questions about product functionality, or need assistance with troubleshooting beyond what is covered in this manual, please contact XREAL customer support through their official channels.

Official User Guide (PDF): You can also download the official user guide in PDF format for more detailed instructions and information: [Download User Guide](#)

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question