XGIMI XR14A

XGIMI HORIZON 20 Pro 4K RGB Triple Laser Home Projector User Manual

Brand: XGIMI | **Model:** HORIZON 20 Pro (XR14A)

1. INTRODUCTION

This manual provides instructions for the setup, operation, and maintenance of your XGIMI HORIZON 20 Pro 4K RGB Triple Laser Home Projector. Please read this manual thoroughly before using the product to ensure proper operation and to maximize its performance.

Image 1.1: The XGIMI HORIZON 20 Pro 4K RGB Triple Laser Home Projector.

2. SETUP

2.1 Unboxing and Package Contents

Carefully unpack all components and verify that the following items are included:

- XGIMI HORIZON 20 Pro Projector
- Remote Control
- Power Adapter
- User Manual (this document)
- Warranty Card

2.2 Projector Placement

The HORIZON 20 Pro offers flexible placement options due to its optical zoom and dynamic lens shift capabilities. Position the projector on a stable, flat surface or mount it according to your preference. Ensure adequate ventilation around the device.

- **Image Size:** The projector can display images from 40 inches to 300 inches diagonally.
- **Throw Ratio:** 1.2:1 to 1.5:1.
- **Dynamic Lens Shift:** Allows vertical image adjustment of ±120% and horizontal adjustment of ±45% without moving the projector or causing distortion.

- **Optical Zoom:** Expand the projection to fill your wall (1.2-1.5:1) while maintaining image clarity.
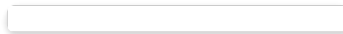
Image 2.1: Illustration of Dynamic Lens Shift for vertical and horizontal image adjustment.
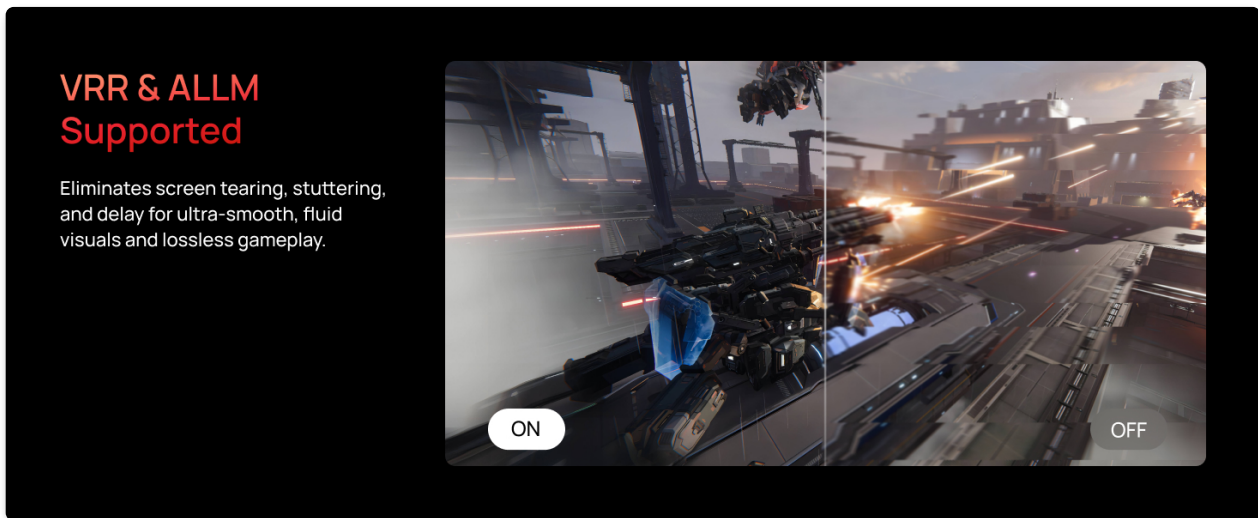

Image 2.2: Illustration of Optical Zoom functionality.

2.3 Power Connection

Connect the power adapter to the projector's power input port and then plug the adapter into a suitable electrical outlet. The projector will enter standby mode.

2.4 Initial Configuration and Intelligent Screen Adaptation (ISA 5.0)

Upon first power-on, the projector will guide you through the initial setup process, including network connection and Google TV configuration. The integrated ISA 5.0 technology automatically adjusts the image for optimal viewing:

- **Uninterrupted Auto Keystone Correction:** Automatically corrects trapezoidal distortion.
- **Auto Focus:** Ensures a sharp image.
- **Intelligent Obstacle Avoidance:** Detects and avoids objects in the projection path.
- **Intelligent Screen Alignment:** Automatically fits the image to your screen.
- **Wall Color Adaptation:** Adjusts colors based on the wall surface.
- **Intelligent Eye Protection:** Reduces blue light and dims the projection when objects are too close to the lens.

Note: When Dynamic Lens Shift is active, some automatic adjustment features (Auto Keystone, Auto Focus, Wall Color Adaptation, Intelligent Eye Protection) may be disabled.
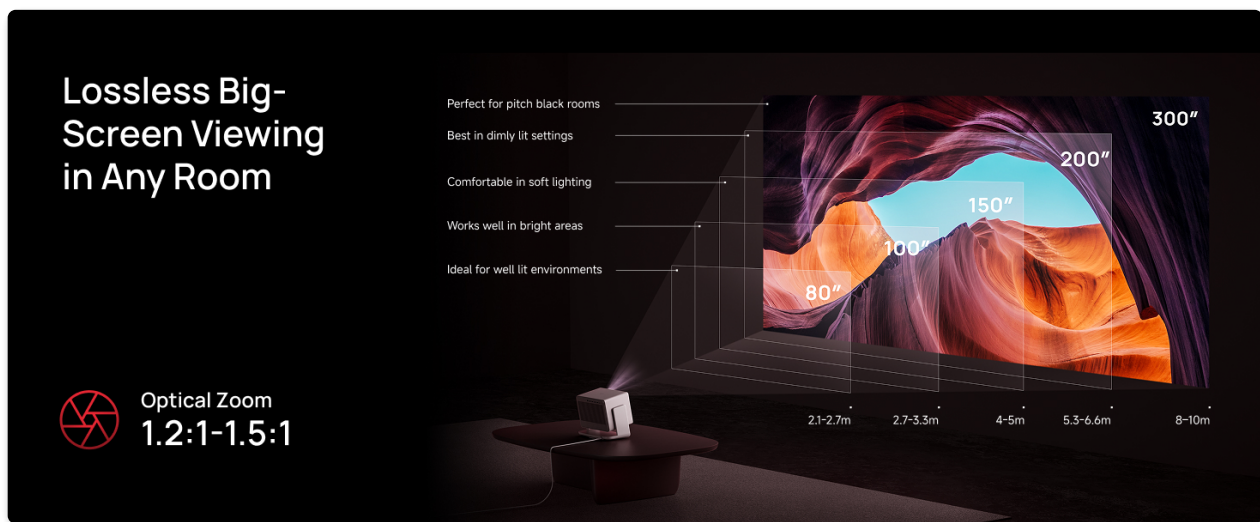
Image 2.3: Overview of ISA 5.0 features for automatic image adjustment.

3. OPERATING INSTRUCTIONS

3.1 Power On/Off

Press the power button on the projector or the remote control to turn the device on or off. A short press will put it into standby, a long press will fully power it down.

3.2 Connectivity

The HORIZON 20 Pro offers various ports for connecting external devices:

- **HDMI:** Two HDMI ports (HDMI1 supports eARC) for connecting gaming consoles, Blu-ray players, or other video sources.
- **USB:** One USB 3.0 port and one USB 2.0 port for connecting USB drives or other peripherals.
- **Optical:** One optical audio output.
- **Audio:** One audio output port.
- **Wireless:** Built-in Wi-Fi (Wi-Fi 6 Dual Band 2.4/5GHz) and Bluetooth 5.2 for wireless connectivity.
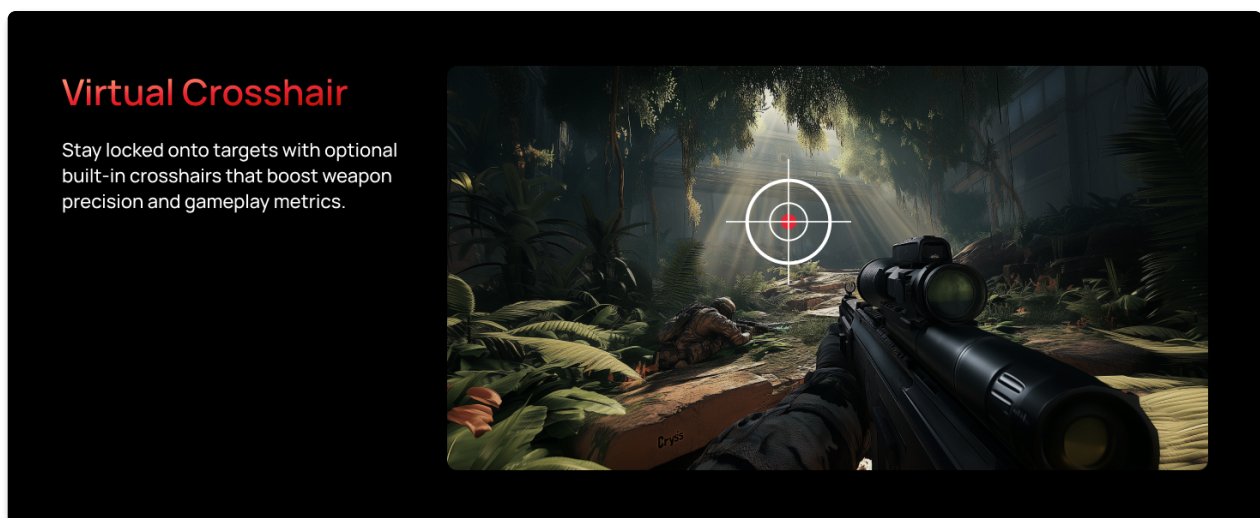

Image 3.1: Rear view of the projector showing various connectivity ports.

3.3 Google TV Integration

The projector features integrated Google TV, providing access to a wide range of streaming applications and content. Use the remote control or voice commands via Google Assistant for navigation and content search.

Image 3.2: The Google TV home screen displaying various streaming applications.

3.4 Gaming Features

The HORIZON 20 Pro is equipped with features designed to enhance the gaming experience:

- **1ms Input Lag:** Provides ultra-low latency for responsive gameplay.
- **240Hz Fluidity:** Supports high refresh rates for smooth motion.
- **VRR (Variable Refresh Rate) & ALLM (Auto Low Latency Mode):**Eliminates screen tearing and stuttering for fluid visuals.
- **Black Equalizer:** Enhances dark scene details to improve visibility in shadows.
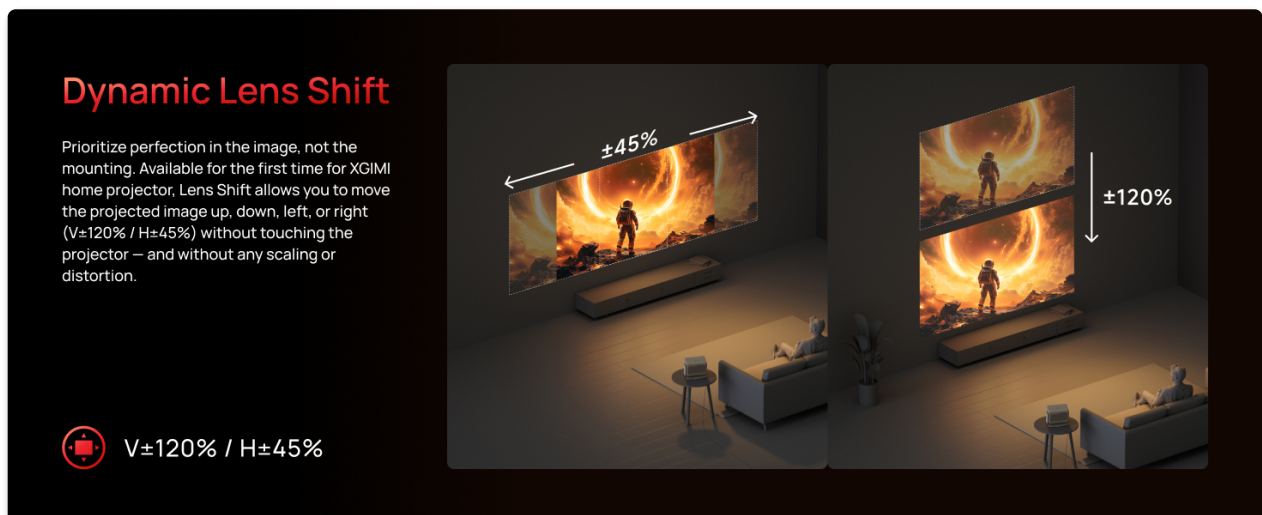- **Virtual Crosshair:** Optional on-screen crosshairs for improved aiming in games.

Image 3.3: A gaming scene projected by the HORIZON 20 Pro.

X-Master Red Ring Lens
Engineered by XGIMI

99.6%
Light Transmittance

+84%
Brightness*

14-Layer
Vacuum Coating

Suppress Spherical Aberration
Aspherical Glass

*Compared to HORIZON S Max

Image 3.4: Comparison illustrating the effect of VRR and ALLM on gameplay.

3.5 Visual Enhancements

The projector incorporates advanced visual technologies for a high-quality viewing experience:

- **RGB Triple Laser Engine:** Delivers 4100 ISO lumens brightness and a 20,000:1 contrast ratio for vibrant and deep visuals.
- **IMAX Enhanced:** Provides an optimized viewing experience for IMAX Enhanced content.
- **Dolby Vision:** Offers automatic frame-by-frame image optimization for enhanced color, contrast, and brightness.
- **HDR10+:** Dynamically adjusts brightness and color levels for each scene on supported content.

4K ULTRA HD

HORIZON 20 Pro
Game Deeper with Pro-Grade Visuals

Google TV

Image 3.5: Diagram of the X-Master RGB Triple Laser Engine.

3.6 Audio System

The HORIZON 20 Pro features built-in Harman Kardon speakers with DTS Virtual:X support, providing immersive audio. The system includes 2x12W speakers with 360° surround sound, 55Hz deep bass extension, and 630cc acoustic chamber volume.

Image 3.6: Diagram illustrating the Harman Kardon speaker system.

4. MAINTENANCE

4.1 Cleaning the Projector

To maintain optimal performance and image quality, regularly clean the projector's exterior and lens.

- **Exterior:** Use a soft, dry, lint-free cloth to wipe the projector's surface. Avoid abrasive cleaners or solvents.
- **Lens:** Gently clean the projector lens with a lens cleaning cloth or lens paper. Do not touch the lens directly with your fingers. If necessary, use a lens cleaning solution specifically designed for optical surfaces.

4.2 Ventilation

Ensure that the projector's ventilation openings are not blocked. Proper airflow is essential to prevent overheating and maintain the lifespan of the device.

5. TROUBLESHOOTING

If you encounter issues with your XGIMI HORIZON 20 Pro, refer to the following common troubleshooting steps:

- **No Power:** Check if the power adapter is securely connected to both the projector and the power outlet. Ensure the power outlet is functional.
- **No Image:** Verify that the projector is powered on. Check the input source selection and ensure the connected device is also powered on and sending a signal.
- **Blurry Image:** Adjust the focus using the remote control or check if Auto Focus is enabled. Ensure the lens is clean.
- **No Sound:** Check the volume settings on both the projector and the connected source device. If using external speakers, ensure they are properly connected and powered.
- **Remote Control Not Responding:** Replace the batteries in the remote control. Ensure there are no obstructions between the remote and the projector.

For persistent issues, please contact customer support.

6. SPECIFICATIONS

The following table outlines the technical specifications of the XGIMI HORIZON 20 Pro Projector:

Category	Feature	Specification
Display	Product Classification	Home Projector
	Light Source	RGB Triple Laser
	Display Technique	DLP
	Display Chip	0.47" DMD
	Display Resolution	3840 x 2160 (4K)
Visuals	Brightness	4100 ISO Lumens
	Contrast Ratio	20,000:1 (Viewing), 1,000,000:1 (Dynamic)
	Color Gamut	BT.2020 (110% Color Volume Ratio, 98% 3D Color Gamut Coverage)
	Supported Formats	HDR10+, IMAX Enhanced, Dolby Vision
	MEMC	Yes
	Eye Protection	Yes
Setup & Projection	Auto Keystone Correction	Uninterrupted Auto Keystone Correction
	Auto Focus	Yes
	Intelligent Screen Alignment	Yes
	Intelligent Obstacle Avoidance	Yes
	Lens Shift	V±120% / H±45%
	Optical Zoom	1.2:1-1.5:1
System	CPU	MT9679
	GPU	Mali-G52
	RAM	4GB
	Storage	128GB
	Operating System	Google TV
Audio	Speakers	2 x 12W Harman/Kardon
	DTS Virtual:X	Yes
	Dolby Audio	Yes
	Dolby Digital (DD) / Dolby Digital Plus (DD+)	Yes

Category	Feature	Specification
	Wi-Fi	Wi-Fi 6 Dual Band 2.4/5GHz (802.11a/b/g/n/ac/ax)
Connectivity	Bluetooth	Bluetooth 5.2
	Input Ports	DC × 1, HDMI × 2 (HDMI1 supports eARC), USB 3.0 × 1, USB 2.0 × 1
	Output Ports	Optical × 1, Audio × 1
	Mirroring Display	DLNA/Google Cast
	Fast Boot	Yes
Physical	Product Size (L×W×H)	249 × 298 × 190 mm
	Product Weight	4.9 kg
	Noise Level	≤28dB
	Power Dissipation	≤250W

Display

Product Classification	Home Projector
Light Source	RGB Triple Laser
Display Technique	DLP
Display Chip	0.47" DMD
3D	Yes
Supported Formats	HDR 10+, IMAX Enhanced, Dolby Vision
Latency	(Game Mode, VRR on, AK off)
	1ms at 1080P@240Hz
	2.2ms at 1080P@120Hz
	3ms at 4K @60Hz
MEMC	Yes
Brightness	4100 ISO Lumens [1]
Standard Resolution	3840 x 2160 pixels
Compatible Resolution	/
Color Gamut	BT.2020 110% [2]
Contrast Ratio	20,000:1 (DBLE On)
Lens	High Light Transmission Coated Lens
Eye Protection	Yes [3]

Setup

Auto Keystone Correction	Uninterrupted Auto Keystone [4]
Focus	Auto Focus
Intelligent Screen Alignment	Yes [5]
Intelligent Obstacle Avoidance	Yes [6]
Lens Shift	V:±120%/H:±45% [7]
Optical Zoom	Yes
Digital Zoom	Yes
Throw Ratio	1.2-1.5:1
Aspect Ratio	16:9
Projection Method	Front, Rear, Front Ceiling, Rear Ceiling
Image Size	40" - 300" [8]

System

CPU	MT9679
GPU	Mali-G52
RAM	4GB
Storage	128GB [9]
System	Google TV
Fast Boot	YES (STR)
Mirroring Display	DLNA/GoogleCast

Audio

Speaker	2 x 12W Harman/Kardon
DTS Virtual:X	Yes
DTS-HD	Yes
Dolby Audio	Yes
Dolby Digital (DD)	Yes
Dolby Digital Plus (DD+)	Yes

Connectivity

WiFi	WiFi 6 Dual-band 2.4/5GHz, 802.11a/b/g/n/ac/ax [10]
Bluetooth	Bluetooth 5.2
Input Ports	DC × 1
	HDMI × 2 (HDMI1 supports eARC)
	USB 3.0 × 1, USB 2.0 × 1 [11]
Output Ports	Optical × 1
	Audio × 1

Electrical

Noise Level	≤28dB@1m [12]
Power Dissipation	≤230W
Power	AC200-240V, 50Hz
Battery Capacity	/
Battery Playtime	/

Measurements

Product Size (H x W x D)	249 × 298 × 190 mm / 9.8 × 11.7 × 7.5 In [13]
Product Weight	4.9 kg / 10.8 lbs [14]
Package Size (H x W x D)	424 × 369 × 251 mm / 16.7 × 14.5 × 9.9 In [13]
Package Weight	6.5 kg / 14.3 lbs [14]

What's in the box

Power Plug	x1
Manual	x1
Warranty Card	x1
Bluetooth Remote Control	Backlight Bluetooth Remote Control x1, AAA Batteries x2

Image 6.1: Detailed technical specifications of the projector.

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The XGIMI HORIZON 20 Pro comes with a **2-year warranty**, providing coverage for manufacturing defects and malfunctions under normal use conditions. Please refer to the included Warranty Card for full terms and conditions.

7.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact XGIMI customer support:
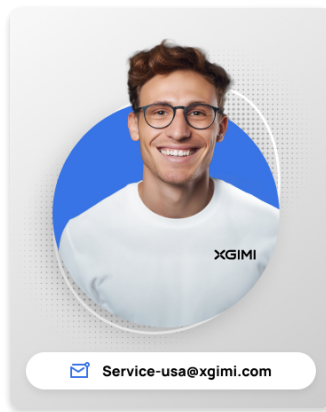
- **Email:** service-usa@xgimi.com

Image 7.1: Contact information for XGIMI customer support.

Related Documents - XR14A

	[XGIMI HORIZON S Max User Guide](#) Comprehensive user guide for the XGIMI HORIZON S Max projector, covering setup, remote control functions, settings, and important safety information. Available in multiple languages.
	[XGIMI HORIZON S Max Projector User Guide - Setup and Features](#) Comprehensive user guide for the XGIMI HORIZON S Max projector, covering setup, remote control, key features like Google Assistant and Google Cast, and important safety information.
	[XGIMI Horizon Series Projector User Guide - Models XR13A, XR14A, XR16A](#) User guide for XGIMI Horizon series projectors (Models: XR13A, XR14A, XR16A), including Horizon Pro and Horizon 20 Max. Covers essential safety precautions, device operation, rear view port descriptions, remote control functions, pairing instructions, and system upgrade procedures.
	[XGIMI AURA 2 User Manual: Setup, Features, and Operation](#) Comprehensive user manual for the XGIMI AURA 2 projector, covering setup, features, Android TV integration, remote control operation, and important safety precautions.
	[XGIMI AURA 2 User Manual](#) User manual for the XGIMI AURA 2 projector, covering setup, operation, features, and safety information.
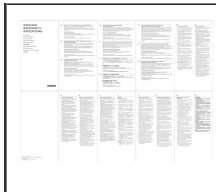
[XGIMI Horizon Pro Projector User Manual - Setup, Operation, and Safety](#)

Comprehensive user guide for the XGIMI Horizon Pro projector, covering setup, device operation, remote control pairing, focus adjustment, system upgrades, and safety precautions. Includes model numbers XR13A, XR14A, XR16A.