BYINTEK R20 Pro

BYINTEK R20 Pro 3D Auto-Focus Portable DLP Projector User Manual

1. Introduction

Thank you for choosing the BYINTEK R20 Pro 3D Auto-Focus Portable DLP Projector. This device combines advanced projection technology with smart features, offering a versatile entertainment solution for both indoor and outdoor use. With its Android 9.0 operating system, dual-band Wi-Fi, and built-in rechargeable battery, the R20 Pro delivers a high-quality viewing experience with convenience and portability.

This manual provides essential information for setting up, operating, and maintaining your projector. Please read it thoroughly before use to ensure optimal performance and longevity of your device.

2. Package Contents

Carefully unpack your BYINTEK R20 Pro projector and ensure all items listed below are present and in good condition. If any items are missing or damaged, please contact customer support.

- BYINTEK R20 Pro Projector Unit
- Remote Control
- Power Adapter (DC 19V 3.42A)
- Power Cable
- User Manual



This image displays all items included in the BYINTEK R20 Pro projector package, ensuring you have everything needed for setup.

3. Product Features

The BYINTEK R20 Pro projector is equipped with a range of features designed to enhance your viewing experience:

- **Advanced 3D Projection:** Utilizes USA TI DLP technology with 100% off-axis projection. Supports DLP-Link active shutter 3D and Blu-ray 3D content.
- **Auto-Focus and 6D Keystone Correction:** Features automatic focus for instant clarity and 6D keystone correction (auto/manual vertical, manual corner) to achieve a perfectly rectangular image from various projection angles.
- **Smart Android 9.0 OS:** Integrated Android 9.0 operating system with a 64-bit Contex A53 processor, 2GB DDR3 RAM, and 32GB eMMC ROM. Comes with pre-installed multimedia apps like Netflix, YouTube, Prime Video, Hulu, Google Play Store, and Aptoide TV APP Market.
- **Dual-Band Wi-Fi and Wireless Display:** Supports 2.4G and 5G dual-band Wi-Fi for stable connectivity. Features

Wifi-Display capabilities, including Airplay and Miracast (Eshare pre-installed), for seamless screen mirroring from compatible devices.

- **Portable with Built-in Battery:** Equipped with a high-capacity 15600mAh rechargeable lithium battery, providing 1.5 to 2.5 hours of operation on a single charge, ideal for outdoor and portable use.
- **Hi-Fi Stereo Speakers:** Built-in dual 5W stereo speakers deliver rich and clear audio, enhancing your movie or gaming experience. A 3.5mm headphone jack is also available for external audio output.
- **High Brightness and Contrast:** Offers 750 ANSI lumens brightness and a 15000:1 contrast ratio for vivid and sharp images.
- **Wide Projection Range:** Capable of projecting screen sizes from 30 to 300 inches, with a projection distance of 1 to 6 meters.
- **Connectivity:** Includes HD 2.0*1, USB 2.0*1, USB 3.0*1 (supports USB SSD hard drive data, mouse, and keyboard control), and a 3.5mm headphone jack.



An overview of the BYINTEK R20 Pro's key technical features, highlighting its smart capabilities and performance.



The auto-focus feature automatically adjusts the image clarity, eliminating the need for manual adjustments and providing a sharp picture effortlessly.



The projector features advanced 6D keystone correction, including manual corner adjustment and automatic/manual vertical correction, to ensure a perfectly rectangular image from various angles.



The integrated 15600mAh rechargeable battery provides 1.5 to 2.5 hours of playback, making the projector perfect for outdoor camping or backyard movie nights without needing a power outlet.



Experience rich audio with the projector's dual 5W Hi-Fi stereo speakers, providing clear and powerful sound for an immersive viewing experience.



Enjoy an immersive 3D experience with the projector's support for DLP-Link active shutter 3D, Blu-ray 3D, and various 3D formats like Side-by-Side and Top-and-Bottom.

4. Setup

4.1 Power Connection

1. Connect the power cable to the power adapter.
2. Plug the power adapter into the DC IN port on the projector.
3. Plug the other end of the power cable into a wall outlet.
4. The projector can also operate on its built-in battery for portable use.

4.2 Initial Power On

1. Press the power button on the projector or the remote control to turn on the device.
2. Allow a few moments for the Android system to boot up.

4.3 Focus Adjustment

The BYINTEK R20 Pro features automatic focus. To activate or re-trigger auto-focus:

- Slightly tilt the projector horizontally by 40 to 60 degrees. The projector will automatically adjust the focus.
- Alternatively, you can use the focus adjustment buttons on the remote control for fine-tuning if needed.

4.4 Keystone Correction

The projector supports 6D keystone correction to ensure a rectangular image even when projected at an angle.

- **Automatic Vertical Keystone:** The projector will automatically correct vertical distortion.
- **Manual Vertical/Corner Keystone:** Access the keystone settings in the projector's menu to manually adjust vertical and corner distortions for precise image alignment.

4.5 Network Connection

1. From the Android home screen, navigate to 'Settings'.
2. Select 'Wi-Fi' and turn it on.
3. Choose your desired Wi-Fi network from the list and enter the password if prompted.
4. Once connected, the projector will have internet access for streaming and app downloads.

5. Operating Instructions

5.1 Navigating the Android OS

Use the remote control to navigate the Android 9.0 interface. The directional buttons, 'OK' button, and 'Back' button are essential for selecting apps, confirming actions, and returning to previous screens.

5.2 Wireless Display (Screen Mirroring)

The projector supports Airplay (for iOS devices) and Miracast (for Android devices) for wireless screen mirroring.

1. Ensure both your mobile device and the projector are connected to the same Wi-Fi network.
2. On the projector, open the pre-installed 'Eshare' app or navigate to the 'Wireless Display' option.
3. On your mobile device, activate screen mirroring (e.g., 'Screen Mirroring', 'Smart View', 'Airplay').
4. Select the projector from the list of available devices to begin mirroring your screen.

5.3 Connecting External Devices

The projector offers multiple ports for connecting external devices:

- **HDMI:** Connect Blu-ray players, game consoles, laptops, or other HDMI-enabled devices using an HDMI cable. Select the HDMI input source from the projector's menu.
- **USB:** Insert USB drives or SSD hard drives into the USB 2.0 or USB 3.0 ports to play media files directly. The USB ports also support connecting a mouse or keyboard for easier navigation.

- **3.5mm Audio Out:** Connect external headphones or speakers via the 3.5mm audio jack for an enhanced audio experience.

5.4 Projection Modes

The BYINTEK R20 Pro supports various projection modes:

- **Front:** Standard projection from in front of the screen.
- **Rear:** Projection from behind a translucent screen.
- **Front Ceiling:** Inverted projection for ceiling mounting in front of the screen.
- **Rear Ceiling:** Inverted projection for ceiling mounting behind a translucent screen.

You can change the projection mode in the projector's settings menu to match your installation.



The BYINTEK R20 Pro projector is ideal for outdoor entertainment, allowing you to enjoy movies or sports on a large screen.

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your projector.

6.1 Cleaning the Lens

- Use a soft, lint-free cloth specifically designed for optical lenses.
- Gently wipe the lens in a circular motion.
- For stubborn smudges, use a small amount of lens cleaning solution applied to the cloth, not directly to the lens.
- Avoid using abrasive cleaners or paper towels, which can scratch the lens.

6.2 Cleaning the Projector Body

- Wipe the projector's exterior with a soft, dry cloth.
- For deeper cleaning, slightly dampen the cloth with water or a mild, non-abrasive cleaner.
- Ensure no liquid enters the ventilation openings or ports.

6.3 Battery Care

- To prolong battery life, avoid fully discharging the battery frequently.
- If storing the projector for an extended period, charge the battery to approximately 50-60% before storage.
- Store the projector in a cool, dry place.

6.4 Storage

- When not in use, store the projector in a protective bag or its original packaging to prevent dust accumulation and damage.
- Keep the projector away from extreme temperatures, humidity, and direct sunlight.

7. Troubleshooting

If you encounter issues with your BYINTEK R20 Pro projector, refer to the following common problems and solutions:

7.1 No Power

- **Check Power Connection:** Ensure the power cable and adapter are securely connected to the projector and a working power outlet.
- **Battery Level:** If operating on battery, ensure it is sufficiently charged. Connect the power adapter to charge.
- **Power Button:** Press and hold the power button for a few seconds to ensure it's properly activated.

7.2 No Image or Blank Screen

- **Input Source:** Verify that the correct input source (e.g., HDMI, USB, Android) is selected in the projector's menu.
- **Cable Connection:** If using an external device, ensure the HDMI or USB cable is securely connected to both the projector and the source device. Try a different cable if possible.
- **Device Output:** Ensure the external device (laptop, game console) is powered on and configured to output video.

7.3 Blurry Image

- **Auto-Focus:** Tilt the projector slightly horizontally to re-trigger the auto-focus function.
- **Manual Focus:** Use the focus buttons on the remote control for fine manual adjustment.
- **Keystone Correction:** Adjust keystone settings if the image is distorted at the edges.
- **Projection Distance:** Ensure the projector is within the recommended projection distance (1-6 meters) for the desired screen size.

7.4 No Sound

- **Volume Level:** Check the projector's volume level and ensure it is not muted.
- **Source Device Volume:** If using an external device, check its volume settings.
- **Audio Output:** If external speakers or headphones are connected, ensure they are working and properly plugged into the 3.5mm audio jack.

7.5 Wi-Fi Connection Issues

- **Network Availability:** Ensure your Wi-Fi network is active and within range.
- **Password:** Double-check the Wi-Fi password for accuracy.
- **Restart:** Try restarting both the projector and your Wi-Fi router.
- **Frequency Band:** Ensure your router supports 2.4G or 5G Wi-Fi, and try connecting to the other band if one is problematic.

7.6 Remote Control Not Working

- **Batteries:** Replace the batteries in the remote control.
- **Line of Sight:** Ensure there is a clear line of sight between the remote control and the projector's IR receiver.
- **Interference:** Remove any obstacles that might be blocking the signal.

8. Specifications

Detailed technical specifications for the BYINTEK R20 Pro projector:

Feature	Specification
Display Technology	DLP (TI 0.45" WVGA DMD)
Light Source	OSRAM RGB 3 LED
Light Life	50,000 hours
Brightness	750 ANSI Lumens
Contrast Ratio	15000:1 (FOFO)
Native Resolution	1280 x 800 (WVGA)
Max Input Resolution	4K

Feature	Specification
Aspect Ratio	16:9 / 4:3
Off-axis	100%
Throw Ratio	1.2:1
Projection Dimension	30-300 inches
Projection Distance	1 to 6 meters
Focus Mode	Auto Focus
Zoom	Electric Remote Zoom
Keystone Correction	Auto/Manual Vertical, Manual Corner Keystone
Operating System	Android 9.0
CPU	64-bit Contex A53
GPU	Arm Mali-G52 2EE MC1
RAM	2GB DDR3
ROM	32GB eMMC
Wi-Fi	Dual-band 2.4G & 5G
Wireless Display	Airplay, Miracast (Eshare pre-installed)
Built-in Battery	15600mAh Rechargeable Lithium Battery
Battery Life	1.5 - 2.5 hours (depending on mode)
Total Power Consumption	65W
Speakers	5W * 2 Stereo Output
Input Ports	HD 2.0*1, USB 2.0*1, USB 3.0*1, DC IN 19V/3.42A
Output Ports	3.5mm Headphone Jack (Audio Out)
Device Dimensions	18 x 14 x 13 cm (approx. 7 x 5.5 x 5 inches)
Device Weight	1.44 kg (approx. 3.17 lbs)
Mounting Type	Tripod Mount
Control Type	Remote Control
Compatible Devices	Smartphone, Tablet
Video Encoding	H.264, H.265

9. Warranty and Support

BYINTEK is committed to providing high-quality products and customer satisfaction.

- **Warranty:** The BYINTEK R20 Pro projector comes with an 18-month extended warranty.
- **Money-Back Guarantee:** A 30-day money-back guarantee is offered for your peace of mind.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please do not hesitate to contact BYINTEK customer support via email. Refer to your purchase documentation for specific contact details.

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

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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