

Novastar TB1-4G

NovaStar TB1-4G LED Screen Controller Multimedia Player User Manual

Model: TB1-4G

1. INTRODUCTION

The NovaStar TB1-4G is a second-generation multimedia player designed for full-color LED displays. This device integrates both playback and sending capabilities, offering a comprehensive solution for managing LED screens. Users can control and publish content via various terminal devices, including personal computers, mobile phones, and tablets. The TB1-4G also supports cloud-based publishing and monitoring platforms, facilitating efficient cross-regional cluster management of multiple screens.

2. PRODUCT FEATURES

- Integrated playback and sending capabilities for LED displays.
- Supports content publishing and screen control from PC, mobile phones, and tablets.
- Compatible with cloud publishing and monitoring platforms for remote management.
- Enables easy cross-regional cluster management of LED screens.
- Optional 4G connectivity for flexible network deployment.
- Supports 4K resolution output.

3. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged. The standard package for the NovaStar TB1-4G typically includes:

- NovaStar TB1-4G Multimedia Player Unit
- Power Adapter
- Wi-Fi Antennas (quantity may vary based on model variant)
- User Manual / Quick Start Guide



Figure 3.1: NovaStar TB1-4G unit and accessories as packaged in the retail box.

4. SETUP

4.1 Physical Connections

Before powering on the device, ensure all necessary cables are securely connected.

1. **Connect Antennas:** Screw the provided Wi-Fi/4G antennas into their respective ports on the device. Ensure they are finger-tight.
2. **Power Connection:** Connect the power adapter to the "PWR" port (5-12V) on the device and then plug it into a suitable power outlet.
3. **LED Output:** Connect an Ethernet cable from the "LEDOUT" port on the TB1-4G to the input port of your LED display receiving card.
4. **Audio Output (Optional):** If audio output is required, connect speakers or an audio system to the "AUDIO" jack.
5. **USB Connections:** Use the "USB 1" and "USB 2" ports for connecting USB devices such as a mouse, keyboard, or USB flash drive for content import or system upgrades.
6. **Network Connection (Ethernet):** For wired network access, connect an Ethernet cable from your router or network switch to the "ETHERNET" port.
7. **SIM Card (Optional 4G Model):** If your model supports 4G, insert a valid SIM card into the "SIM CARD" slot.



Figure 4.1: Front view of the NovaStar TB1-4G showing power, audio, USB, reset, and LED output ports.



Figure 4.2: Rear view of the NovaStar TB1-4G showing SIM card slot, USB, Ethernet, Wi-Fi/AP, and 4G antenna ports.

4.2 Initial Power On

Once all physical connections are made, plug in the power adapter. The device will automatically power on. Observe the indicator lights (PWR, CLOUD, SYS, RUN) to confirm proper startup. Refer to the device's LED indicator guide for specific status meanings.

5. OPERATING INSTRUCTIONS

5.1 Content Management and Publishing

The TB1-4G supports various methods for content management and publishing:

- **Local Publishing:** Connect a USB flash drive containing your media content to a USB port on the device. The system can be configured to automatically play content from the USB drive or allow manual selection via a connected control device.
- **Network Publishing:** Utilize NovaStar's dedicated software (e.g., NovaLCT, ViPlex Express) on a PC or mobile application on a smartphone/tablet to send content to the TB1-4G over the local network (Ethernet or Wi-Fi).
- **Cloud Publishing:** For remote management and large-scale deployments, connect the TB1-4G to NovaStar's cloud platform. This allows for content updates, scheduling, and monitoring from anywhere with internet access.

5.2 Screen Control and Monitoring

The TB1-4G provides robust control and monitoring capabilities:

- **Device Configuration:** Access the device's settings via the control software to configure network parameters, display settings, and other system preferences.
- **Real-time Monitoring:** Monitor the operational status of the TB1-4G and the connected LED display through the control software or cloud platform. This includes status of network connection, playback, and device health.
- **Remote Management:** Perform remote operations such as power cycling, brightness adjustment, and firmware updates through the network or cloud platform.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your NovaStar TB1-4G.

- **Cleaning:** Periodically clean the exterior of the device with a soft, dry cloth. Do not use liquid cleaners or aerosols. Ensure ventilation openings are free from dust and debris.
- **Firmware Updates:** Check the official NovaStar website or your distributor for the latest firmware updates. Keeping the firmware updated ensures access to new features, performance improvements, and bug fixes. Follow the provided instructions carefully during updates.
- **Environmental Conditions:** Operate the device within recommended temperature and humidity ranges. Avoid exposing the device to extreme temperatures, direct sunlight, or high moisture environments.
- **Cable Management:** Ensure all cables are securely connected and not under strain. Loose connections can lead to intermittent issues.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your TB1-4G.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No Display on LED Screen	Power issue with TB1-4G or display. Loose or faulty LEDOUT cable. Incorrect display configuration. No content loaded or playing.	Check power connections and indicator lights on TB1-4G and display. Ensure LEDOUT cable is securely connected and undamaged. Verify display parameters in the control software match the physical display. Confirm content is loaded and scheduled for playback.
Device Not Accessible via Network	Incorrect IP address or network settings. Loose Ethernet cable or Wi-Fi signal issue. Firewall blocking connection.	Verify network settings (IP, subnet mask, gateway) on the TB1-4G and your control device. Check Ethernet cable connection or Wi-Fi signal strength. Temporarily disable firewall on your PC to test connection. Restart the TB1-4G and network router.
Content Playback Issues (Stuttering, Freezing)	Unsupported media format. Insufficient device resources. Corrupted media file.	Ensure media files are in supported formats and resolutions. Reduce complexity of content or number of concurrent tasks. Re-upload or use a different media file.

If the problem persists after attempting these solutions, please contact NovaStar technical support or your local distributor for further assistance.

8. SPECIFICATIONS

Attribute	Detail
Brand	Novastar
Model Number	TB1-4G
Product Dimensions	7.87 x 4.53 x 1.38 inches (20 x 11.5 x 3.5 cm)
Item Weight	1.76 pounds (0.8 Kilograms)
Resolution Support	Up to 4K
Compatible Devices	Personal Computer, Tablet
Controller Type	Remote Control (via software/app)
Connectivity	Ethernet, Wi-Fi, USB, Audio, Optional 4G
UPC	619185746506, 602822762908

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official NovaStar website. NovaStar provides technical support for its products. If you encounter issues not covered in this manual or require further assistance, please contact NovaStar customer service or your authorized dealer.

NovaStar Official Website: www.novastar.tech

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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