

GAN GAN 12 ui Maglev

GAN 12 ui Maglev Smart Speed Cube Instruction Manual

Model: GAN 12 ui Maglev

1. INTRODUCTION

The GAN 12 ui Maglev is an intelligent 3x3 speed cube designed for enhanced performance and interactive training. It features Maglev technology, an omnidirectional core smart ball shaft 2.0, and magnetic tuning systems for a customizable experience. This smart cube connects via Bluetooth to the CubeStation application, offering online games, AI training, and solution guidance.

This manual provides essential information for setting up, operating, and maintaining your GAN 12 ui Maglev Smart Speed Cube.



Image 1.1: The GAN 12 ui Maglev Smart Speed Cube alongside its distinctive packaging.

2. WHAT'S IN THE BOX

Verify that all the following items are included in your package:

- GAN 12 ui Maglev Smart Speed Cube
- GAN PowerPod V3 (Intelligent Charging Case)
- 10 YEARS tech cards
- 10 YEARS silver-electroplated axle core
- Acrylic cover for display (assembly needed) - 5 pieces
- 10 YEARS cube bag
- Center Cap Opening Tool
- Tuning Tool



Image 2.1: All components included in the GAN 12 ui Maglev package.

3. SETUP INSTRUCTIONS

3.1 Initial Activation

To activate your GAN 12 ui Maglev Smart Speed Cube for the first time, rotate the white side 360 degrees in the same direction within 3 seconds. This action wakes up the cube and prepares it for connection.

3.2 Charging the PowerPod

The GAN PowerPod V3 provides extended battery life for your smart cube. Ensure the PowerPod is fully charged before use. Once charged, it can provide an additional 105-120 hours of battery life to the cube's original 15 hours of playtime.



Image 3.1: The GAN PowerPod V3 charging case with the smart cube inserted.

3.3 Connecting to the CubeStation App

The CubeStation app is essential for utilizing the smart features of your GAN 12 ui Maglev. Follow these steps to connect your cube:

1. Download and install the CubeStation application on your smartphone or tablet.
2. Ensure Bluetooth is enabled on your device.
3. Open the CubeStation app.
4. Navigate to the "Device" section within the app.
5. If your cube is not listed, click "+ More" and twist the white side of the cube 360 degrees four times in the same direction within 3 seconds to wake it up.
6. Your cube model should appear in the device list. Select it and click "Connect".

For a visual guide, refer to the "Smart Cube First Connection Tutorial" video below:

Your browser does not support the video tag.

Video 3.1: Tutorial on connecting the GAN Smart Cube to the CubeStation application via Bluetooth.

4. OPERATING INSTRUCTIONS

4.1 Maglev Technology

The GAN 12 ui Maglev utilizes magnetic levitation (Maglev) technology, replacing traditional springs with opposing magnets. This design reduces friction and noise, contributing to a smoother and faster turning experience.



Image 4.1: Internal view illustrating the magnetic levitation system within the cube.

4.2 Customizing Hand Feel (GES v2 + GMS v3)

The cube offers 216 combinations for customizing the hand feel through the GAN Magnetic Force GES v2 and GMS v3 systems. This allows for precise adjustment from hard to smooth, and from stretched to tight tensions.

- **GES v2:** Adjusts the tension and compression of the core.
- **GMS v3:** Provides strong and weak magnetic bars, each with 3 gear adjustable settings, to fine-tune the magnetic strength.

Magnetic force GES v2+GMS v3

216 KINDS OF HAND FEEL



Image 4.2: Visual representation of the cube's adjustable magnetic and tension systems.

4.3 Using the CubeStation App

The CubeStation app enhances your cubing experience with various features:

- **Online Ranking Competition:** Participate in global competitions and connect with other cubers.
- **AI Training:** The app tracks your moves and provides intelligent solutions and guidance.
- **Tutorials:** Access AI-guided tutorials and algorithm training.
- **Challenges and Races:** Engage in various competitive modes.

5. MAINTENANCE

To ensure the longevity and optimal performance of your GAN 12 ui Maglev Smart Speed Cube, follow these maintenance guidelines:

- **Cleaning:** Wipe the cube surfaces with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Lubrication:** If the cube's turning becomes less smooth over time, apply a small amount of silicone-

based cube lubricant (sold separately) to the internal contact surfaces. Do not over-lubricate.

- **Storage:** Store the cube in its provided cube bag or a clean, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** Charge the PowerPod regularly, even if not in frequent use, to maintain battery health. Avoid fully depleting the battery for extended periods.

5.1 Adjusting Tension and Magnets

Use the provided tuning tool and center cap opening tool to adjust the cube's settings. Refer to Image 4.2 for visual guidance on the tuning system.

- **Center Cap Opening Tool:** Use this tool to safely remove the center caps to access the tuning mechanisms.
- **Tuning Tool:** Insert the tuning tool into the adjustment points to change the tension and magnetic strength. Each turn adjusts one gear.



Image 5.1: Center Cap Opening Tool.



Image 5.2: Tuning Tool.

6. TROUBLESHOOTING

If you encounter issues with your GAN 12 ui Maglev, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Cube does not connect to app.	Bluetooth is off, cube is not awake, or app is not detecting.	<ol style="list-style-type: none">1. Ensure Bluetooth is enabled on your device.2. Wake up the cube by twisting the white side 360 degrees four times in the same direction within 3 seconds.3. Restart the CubeStation app and try connecting again.4. Ensure your device is close to the cube.
Short battery life.	Cube or PowerPod not fully charged.	<ol style="list-style-type: none">1. Charge the PowerPod V3 fully.2. Place the cube in the PowerPod to charge.

Problem	Possible Cause	Solution
Cube feels stiff or sluggish.	Lack of lubrication or incorrect tension settings.	<ol style="list-style-type: none">1. Apply a small amount of silicone-based cube lubricant.2. Adjust the GES v2 and GMS v3 settings using the tuning tool to your preferred hand feel.
Colors are hard to distinguish (as noted in reviews).	Lighting conditions or personal perception.	<ol style="list-style-type: none">1. Ensure you are cubing in a well-lit environment.2. Familiarize yourself with the specific color palette of the transparent cube.

7. SPECIFICATIONS

- **Product Dimensions:** 2.2 x 2.2 x 0.04 inches
- **Item Weight:** 2.4 ounces
- **Model Number:** GAN 3x3 (Internal model number, product is GAN 12 ui Maglev)
- **Manufacturer:** GAN
- **Recommended Age:** 6 years and up
- **Batteries:** 1 Lithium Polymer battery (included)
- **Connectivity:** Bluetooth
- **Core Technology:** Omnidirectional core Smart ball shaft 2.0, Maglev
- **Magnetic System:** GAN Magnetic force GES v2 + GMS v3 (216 hand feel combinations)
- **Battery Endurance:** Approx. 15 hours (cube), additional 105-120 hours (with PowerPod V3)

8. SAFETY INFORMATION

WARNING:

- Not suitable for children under 72 months (6 years) due to small parts which may present a choking hazard.
- Keep away from water and excessive moisture.
- Do not attempt to disassemble the internal electronic components beyond routine maintenance.
- Dispose of batteries according to local regulations.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to inquire about replacement parts, please visit the official GAN Cube website or contact their customer service directly. Details can typically be found on the product packaging or the GAN Cube official store page.

You can visit the GAN Store on Amazon: [GAN Store](#)

