

中文



GAN356 i 3 使用说明书



感谢选择 GAN 智能魔方

使用前必读

1. 本产品内置智能动态捕捉系统跟踪魔方动态，魔方各面的位置不可随意调换。
2. 调试弹力时请勿左右晃动轴心，以免损坏内部电路。
3. 首次充电时长1.5小时。充电时，魔方必须白色中心盖朝上置入充电座。

*使用产品前请仔细阅读并妥善保存

产品配置



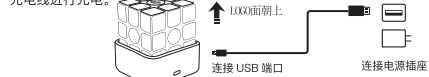
基本参数

产品型号	GAN356 i 3	产品尺寸	56x56x56mm
产品重量	约 88g	电池类型	3.7V 锂电池
充电时长	1.5h	续航时长	约 15h*
USB 电源适配器要求	≤5V2A	连接方式	无线连接
设备要求	支持 iOS 9.0 及以上、Android 4.4 及以上版本的设备		

*实验室测试数据，实际续航时长视使用而定。

上手步骤

1. 将魔方 LOGO 面朝上插入充电座，轻轻按压确保魔方插紧，连接标配的 USB 充电线进行充电。



2. 充电 1.5 小时后，转动魔方任意面可唤醒魔方（白灯闪烁 20 秒表示唤醒成功）



3. 下载安装 APP "Cube Station"，打开手机蓝牙及 APP，根据 APP 内提示连接魔方。



魔方状态/功能说明*

魔方状态/功能	状态/功能说明	操作	指示灯状态 (指示灯位于魔方白面)
唤醒	唤醒状态下魔方可连接蓝牙设备	转动魔方任意面	白灯闪烁
休眠	休眠状态下魔方无法连接蓝牙设备	- 魔方超过 60 秒未与设备连接将自动休眠 - 魔方连接设备状态下，10 分钟无任何操作将自动休眠	白灯熄灭
低电量	电量过低时魔方会自动休眠	使用标配的充电座和 USB 线为魔方充电	红灯闪烁
断开 APP 账号	魔方同一时间仅能与一台设备连接，连接状态下无法被其他设备搜索到	10秒内顺时针转动白面5圈或在 APP 内点击“断开”	白灯闪烁
绑定 APP 账号	魔方同一时间仅能绑定一个 APP 账号，绑定后其他账号无法与其连接	唤醒状态下，10 秒内顺时针转动粗面 5 圈，或在 APP 内点击“解除绑定”	/

*智能产品可能会因软件版本迭代而产生功能差异，具体以实际产品为准。

磁力调试

GAN356 i 3 是全球第一款可变磁智能魔方，采用全新的磁力定位系统 GMS v4，在 12 个棱块上进行 7 档调试，改变棱块与角块磁铁间的距离，距离越大，磁力越小。

7 档磁力

1 档（齐平状态）：磁力最大



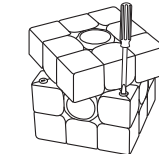
特别提醒：

第 7 档后，虽仍有部分调磁空间，请勿继续旋转，以免损坏调磁结构。

（每顺时针旋转一档，磁力小 1 档）

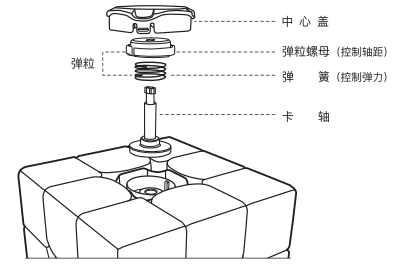
调试方法：

转动顶层 45°，露出棱块变磁档位，用小螺丝刀顺时针转动至目标档位。



弹力调试

1. 掀开中心盖。
2. 取出弹粒：按压弹粒到底，旋转轴端卡针 90°，弹粒弹出，缓慢松手，防止弹簧弹飞。
3. 更换弹粒：放入新弹粒，反向步骤 2，盖上中心盖完成更换。
4. 依次更换剩余 5 面。



弹力参照表



螺母规格	弹簧规格	弹簧①	弹簧②	弹簧③
0.5 (透明)		2.1N	2.6N	3.2N
0.6 (透绿)		2.0N	2.5N (出厂配置)	3.1N
0.7 (透蓝)		1.9N	2.4N	3.0N

警告：请勿随意调换各面中心盖，以免影射 APP 识别魔方状态；调整弹力时请勿左右晃动轴心，以免损坏内部电路；调整弹力后需在 APP 上重置魔方。

磁力&弹力
调试视频



注意事项

使用限制

- 智能魔方为精密电子产品，请勿拆解内核球轴，以免产品损坏。
- 请勿在黄色面加润滑油，否则可能导致无法充电。
- 本产品不能遭受冲击、遇水或置于高于 60°C 的环境。
- 本产品内含小零件，请勿给 3 岁以下儿童使用。
- 请严格按照说明书提示使用产品，避免因操作不当导致设备损坏或人身伤害。

电池及充电

- 充电座红灯闪烁，表示魔方正在充电，越接近充满状态，红灯闪烁越快，充满后绿灯长亮。
- 请仅使用标配的充电座和 USB 线进行充电。充电前请确认充电设备完好无损。
- 魔方电量低时会自动进入休眠模式，请及时充电，以免数据丢失。
- 如果长时间不使用产品，请充满电后置于阴凉干燥处保存。长时间不充电会导致电池永久损坏，请确保至少每 3 个月充满电一次。

故障排除

1. APP 无法检测到魔方？

- ① 请确认魔方电量充足。
- ② 请确认魔方处于唤醒状态。
- ③ 如魔方已被其他设备连接，则需断开后才能被另一台设备检测到。
- ④ 安卓设备请确认定位功能开启，并已授予 APP 定位权限。

2. APP 显示的魔方状态不同步？

- ① 请通过 APP 的重置功能重置魔方状态。
- ② 魔方电量低时，会自动休眠导致魔方状态无法同步，请尽快充电。
- ③ 陀螺仪采集数据会累积偏差，导致 APP 显示的魔方状态不同步，此为原件物理特性，非产品质量问题。

3. 无法充电？

- ① 请确认白色中心盖的位置未经调换，并白色中心盖朝上插入充电座压紧。
- ② 当电量低时魔方会自动休眠，此时需要充电几分钟后才能再次唤醒。
- ③ 请尝试转动魔方整体朝向，再插入充电座充电。

获取更多技术支持，请联系 support@gancube.com

English



GAN356 i 3 User Manual

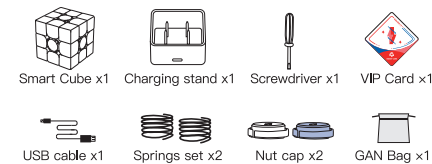
Thank you for choosing the GAN Smart Cube

Read carefully before getting started

1. The product contains a built-in motion tracking system to record moves on each side. DO NOT swap the center caps of each side.
2. DO NOT bend the core when adjusting tension, in case of damaging the internal circuit.
3. The FIRST charging time should be more than 1.5 hours. To charge the cube, ensure that the LOGO side is facing upwards.

* Keep manual well for future reference.

ACCESSORIES



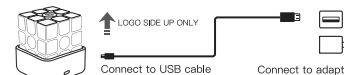
SPECIFICATIONS

Model	GAN356 i 3	Product size	56×56×56mm
Product weight	About 88g	Battery type	3.7V lithium
Charging time	About 1.5h	Battery life	About 15h*
USB adapter	≤5V 2A	Connection	Wireless
Device requirement	IOS 9.0 Android 4.4 or above		

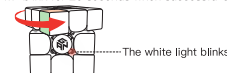
* Lab test data. Actual battery life subject to actual usage.

GETTING STARTED

1. Put the cube into the charging stand and press it, LOGO SIDE UP ONLY. Connect the charging stand to a power source as shown.



2. After charging 1.5h, turn any side of the GAN356 i 3 to awake it. (The white light will blink for 20 seconds when successful awakening.)



3. Download and install APP "Cube Station". Enable your smart phone's Bluetooth function and open the APP; Connect the cube per instructions in the APP.

* Battery level will show in APP once connected



BASIC CUBE STATUS/FUNCTION*

Cube Status/Function	Status/Function Instruction	Operation	Light Indicator (on the white side)
Awaken	The cube can connect to Bluetooth devices when in awaken mode.	Turn any side of the cube.	White light blinks.
Sleep	The cube can not connect to Bluetooth devices when in sleep mode.	-The cube will enter sleep mode if no APP connection is made within 60 secs. -When connected to devices, the cube will automatically enter sleep mode after being set aside for 10 mins.	White light off.
Low-battery	The cube will automatically enter sleep mode when battery is low.	Use the charger and USB cable provided for charging only.	Red light blinks.
Disconnect to APP	The cube can only connect to one device at a time. Once connected, the cube can not be detected by another device.	Rotate the white side clockwise for 5 rounds or using "Disconnect" option in the APP can disconnect the cube.	White light blinks.
Bind to APP	The cube can only bind to one APP account at a time. Once binded, the cube can not be connected by any other APP accounts.	Rotate the orange side clockwise for 5 rounds or using "Unbind" option in the APP can unbind the cube.	/

*Smart products may have functional differences due to software version upgrade. Specific functions depend on the actual products.

MAGNET ADJUSTMENT

GAN356 i 3 is the first smart cube in the world which owns variable magnet. It adopts a brand-new magnet positioning system (GMS v4) that can adjust the magnet strength by adjusting the distance between the corner piece and edge piece. The larger the distance, the smaller the magnetic strength can be provided. Magnet adjustment is operated at the 12 edge pieces with 7 different magnet settings.

7 settings of magnet strength:

Setting1 (flush position): maximum magnet strength

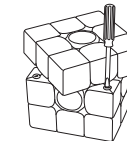
Special notice:
There is still some space for magnet adjustment after the seventh grade, please DO NOT continue to rotate in case of damaging the structure of magnet adjustment.



Each turn clockwise decreases the magnet strength by one grade.

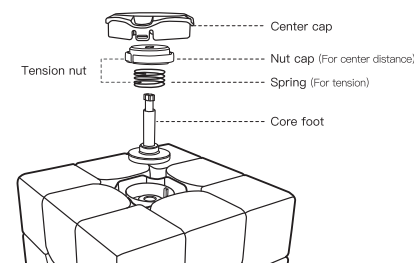
Set up instruction:

Turn the top layer 45° to expose the magnet slots on the edge pieces. Use the screwdriver to turn the magnet clockwise to the desired setting.



TENSION ADJUSTMENT

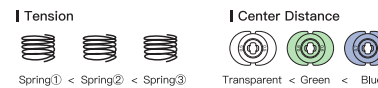
1. Open the center cap.
2. Press the tension nut to the bottom and turn the core foot 90° to the release position, then take out the tension nut. Release slowly to prevent the spring from popping out.
3. Swap in the new tension nut and set it up properly (reserve step 2 operations).
4. Repeat on other sides.



Follow GANCUBE on Instagram for more speedcubing stuff



TENSION CHOICES



Nut cap	Spring	Spring①	Spring②	Spring③
0.5 (Transparent)		2.1N	2.6N	3.2N
0.6 (Green)		2.0N	2.5N (Default Value)	3.1N
0.7 (Blue)		1.9N	2.4N	3.0N

Warning: DO NOT alter the positions of center caps, this will lead to synchronization problems. DO NOT bend the core when adjusting tension, to prevent damage of the internal electronics. Resetting the cube is required after readjusting tension.

Video Instruction of Magnet & Tension Adjustment



MUST KNOWS

Usage restrictions

- The smart cube contains electronic components. To prevent damage, DO NOT dismantle the core.
- DO NOT lube the cube from yellow side.
- DO NOT crash the product. Keep away from water or high temperature (≥60°C).
- Product contains small parts, NOT suitable for children under 36 months.
- Strictly follow manual to avoid product damage or bodily harm.

Battery and Charging

- The red light will be on when the cube is charged through the charging stand, and the more the remaining capacity of electricity, the faster the red light will flash until it becomes yellowish green.
- Use the charger and USB cable provided for charging only. Ensure they are in good condition before connecting to power.
- Product shuts down automatically when battery is low. Please charge the cube appropriately to avoid loss of data.
- Fully charge the cube at least once every 3 months to prevent permanent battery damage. Keep in dry and cool conditions if not in use.

TROUBLE-SHOOTING

1. Failure of detecting the cube by APP?

- ① Ensure the cube has been fully charged.
- ② Ensure the cube has been awakened.
- ③ Ensure the cube has not been connected already by another device.
- ④ Android users please ensure location access has been authorized to the APP.

2. Cube position not synchronized in the APP?

- ① Reset the cube via "Reset Cube" functions in the APP
- ② The cube will shut down when battery is low. Charge timely.
- ③ Gyroscope will accumulate detection bias over time. This is not malfunction. Please adjust cube position in APP from time to time to ensure synchronization.

3. Failure of charging the cube?

- ① Ensure sides have not been altered from ex-factory positions and white side is facing upwards.
- ② When battery is too low it takes a few minutes to reach minimum wake-up battery level.
- ③ Make a whole rotation and put the cube in the charging stand again.

More info & supports: support@gancube.com