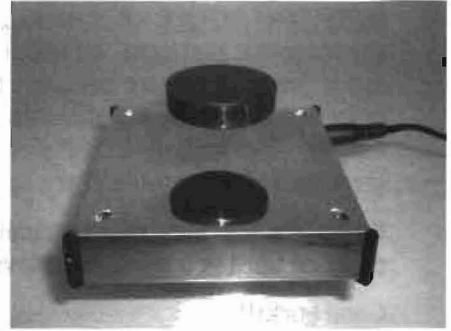


# Levitron® Revolution™

## Magnetic Levitation with a twist



### Introduction

Congratulations for purchasing the Levitron® Revolution™, the most advanced magnetic levitation system on the market.

The Levitron® Revolution™ incorporates the most sophisticated magnetic levitation technology to automatically balance the universe's two main strong forces - Gravity, which pulls down the magnet, and magnetism, which pushes up the magnet.

The Levitron® Revolution™ includes the base, the floating magnetic platform plus a low voltage adapter. Once you learn to levitate your magnetic platform you will most likely wish to place objects on top of it such as your favorite collectibles. The Levitron® Revolution™ can levitate objects as heavy as 12 ounces. However, objects that contain much iron cannot be levitated because they alter the system's magnetic field.

Note: Levitron® accessories such as the customized Levitron® Earth Globe may already have been included with your purchase. Other customized Levitron® accessories can be purchased separately.

### How to Levitate

Levitation is achieved when the magnetic platform is placed at the right point in mid-air. The challenge is to find that specific balancing levitation point. This will require some practice! If it is your first time - expect that it will take you quite a while. But as you gain experience - you will eventually be able to levitate the magnetic platform every time you try in about 5 seconds!

So, please be patient and follow the detailed instructions provided below:

- 1) Sit comfortably and place the base on the table in front of you and connect it to the AC low voltage adapter which has been included. Once you plug in the adapter, the 4 bright LEDs in the corners of the base will light up.
- 2) Place the polyfoam sheet (included) on the base and align it in such way that all LEDs are visible. This sheet protects the base from scratches in case the magnet fall down during the setup process.
- 3) Hold the magnetic platform gently in both hands with thumbs and index fingers (see photo) at a height of about one foot above the center of the base.
- 4) Lower the magnet fairly rapidly keeping it level (takes about one second) until you feel that the upward magnetic force is supporting the weight of the magnetic platform. This is the float height.
- 5) Now you have reached the step that requires practice to master. The bright LED lights in the 4 corners of the base indicate when the magnetic platform is centered. You will notice that one or two of the LED lights are probably not on at this point in the procedure. This indicates that the magnet is not centered. Move the magnet horizontally towards the LEDs that are off until they light up. If you move too far in this direction - the opposite side LEDs will turn off and you will then need to move the magnet backwards. The best way to keep all four LEDs on is to hold the magnetic platform so that you can see all four LEDs simultaneously as you make horizontal adjustments.
- 6) While all LEDs are ON - slowly and very carefully release the magnet. As you do so, continue to make minor horizontal adjustments toward any of the LEDs that begin to flicker off. If the magnetic platform floats - Congratulations! If it falls - simply try again.
- 7) Each attempt to float the magnet should last no longer than 10 seconds. After each attempt, start over by once more raising the magnet to about a foot above the base, wait for all 4 lights to come back on and then lower the magnet again.



**IMPORTANT NOTICE** - It is normal for the electronics inside the base to heat up as you practice levitating the magnetic platform. A temperature sensor will automatically turn off the base and all four lights will go out if the temperature becomes too hot. If this happens, simply unplug the base and wait a few minutes before plugging the adapter into the base once more. For best results, if you are unable to balance the magnet after making multiple attempts for about a minute, take a rest for at least 20 seconds to let the electronics cool down and try again.

Be patient and note that this unit was carefully tested in the factory before shipment. It is just a matter of practice until you are able to levitate the magnetic platform.

Good Luck!!!

#### Frequently Asked Questions:

**Question:** If my magnetic platform with my object on top is not turning, how can I make it turn?

**Answer:** Simply move the object a little off center of the magnetic platform and try again.

**Question:** How can I slow down the rotation rate of the turning platform?

**Answer:** The problem is that the platform is not balanced. For smooth rotation, the CG must be in the center of the platform. The procedure to balance the magnet is the following;

Tip up one side of the base more than 10 degrees so that the heaviest side of the levitating base will rotate to the lowest point.

Now that you have determined which side of the platform is too heavy, simply move the object on the platform away from the heaviest side by about 1/16 of an inch and test again the balance. Repeat this process until the platform appears to no longer favor one side when tipped up at an angle.

Now your magnetic platform should turn with a smooth and slow rotation.

**Question:** My base is white; and not as a mirror like on the picture.

**Answer:** Simply remove the white protection film on the stainless steel mirror.