



#### **Congratulations!**

You have just acquired an innovative, high quality product. We have put our highest effort into each development stage. We are sure that you will find this equipment most reliable and accurate - exceeding your expectations.

Before using this device, we strongly recommend that you carefully read the user manual. There you will find all related information for correct handling and usage of this product.

We hope that you enjoy using this equipment as much as we did creating it.

De la Rosa Research Team.









The Illusionator Set is intended for the study of visual effect illusions. A very unusual assortment of visual illusion cards is included as part of the Illusionator Set. This optical illusion set allows for the demonstration of illusions of apparent color, apparent movement, tridimensional illusion and other classical illusions.. The main unit contains a low speed motor (0-8.5 RPM) or the trapezoid rotation illusion, and a high speed motor (0-2350 RPM) for the visual effects disks to create illusions of color from plack and white patterns, after-images, rotating spiral, zig-zag, and others. The use of the Illusionator Set is excellent for any student demonstration or student's labs.

#### **DETAILS**





Line Voltage: 110/220 V AC - 50/60 Hz.







#### **SPECIFICATIONS**





the scope of many renowned psychologists, forefathers of

**APPLICATIONS** 





#### **FEATURES**



Recyclable materials



Accurate



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#### ACCESSORIES

Easy to clean acrylic accessories. High resistant, and carefully finished to avoid injury.

If you need accessories or replacement parts, these are the reference numbers:

Trapezoid Window Model: AA86829-1 Seven Illusion Disks Model: AA86829-2 Thirteen Illusion Cards Model: AA86829-3

#### CONTROL

LCD and key pad control Easy to read LCD display Allows RPM and time measurements. 235 step motor control.

#### **FEATURES**

#### BODY

Built from high-quality components manufactured in USA, Japan, Germany, Italy, etc.



#### MOTOR 1 (Frontal motor)

Illusion Disks. Motor Speed: 20 - 200 Revolutions per minute (RPM)





#### **FEATURES**

#### MOTOR 2 (Upper motor)

Window Illusion. Motor Speed: 1.5 - 7 Revolutions per minute (RPM).



#### **POWER SOURCE**

Medical grade power source (short circuit protected through reprogrammable fuse).





#### PROCEDURE

#### eral recommendations

al settings

erating



**3 ft** .....i.

When the product is on, it is prudent to leave at least three feet between the product and any object or subject around it, in order to avoid any injury or damage.

Before starting the operation of this equipment, all the cables, controls, disk or window should be properly attached and carefully fixed to the equipment with the provided thumb screws. Failure to do so may cause inadequate functioning or injury.

While all pieces have blunt edges, you should avoid touching them when they are spinning. Avoid using sharp objects with the product.

In case the product is not working properly, is damaged or needs maintenance, please contact us. We will gladly help you to solve any issue.

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#### **PROCEDURE** // GENERAL RECOMMENDATIONS





Always ensure the proper power input.



Do not try to fix or disassemble this product by yourself.





a. Illusionator body // b. Down Control x 1 // c. LCD control x 1 // d. DIN 5 cable x 1
e. Serial cable DB25 x 1 // f. USB cable A-B x 1 // g. Power cable (AC cable) x 1.

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#### WHAT SHOULD BE INCLUIDED IN THE PACKAGE?

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**h.** Illusionator disks x6 // **i**. Illusion window x1 // **j**. Illusion cards x13

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#### PROCEDURE // INITIAL SETTINGS

#### SERIAL DB25 CABLE

Connect the male end of the Serial DB 25 cable **(e)** to this port. The female end of the cable should be connected to the LCD control **(c)** 



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#### A/C POWER CABLE.

Connect the A/C cable **(g)** to this port. The opposite end should be connected to a 110/220VAC- 50/60Hz power outlet.







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#### PROCEDURE // INITIAL SETTINGS



#### **ILLUSION DISK**

Attach the disk so it is retained by the frontal shaft and the THUMBSCREW.

#### THUMBSCREW

The sellected disk will be attached and secured by firmly tightening the THUMBSCREW to the shaft.



### **1**" CABLE CONNECTION SET UP

#### HANDHELD UNIVERSAL CONTROL

Connect the two handheld universal controls to the main unit using the corresponding (d) Din 5 to mini USB cable connectors.



#### MAIN LCD CONTROL

Connect the main LCD control to the main unit using the corresponding (e) DB25 to USB 3.0 cable connector.





AC POWER CABLE

Connect the AC power cable (g)

#### **TURNING ON**

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Before turning the equipment On. Please verify that all the cables are connected correctly. Please, double check that the AC power cable is safely and securely plugged to both the main unit and the AC wall outlet. Also, check that all the cables are set accordingly to the previous steps.

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#### **ATTENTION!**

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Please verify that the neither (f) USB B connector is connected to the equipment or the USB A connector is connected to the PC when you start the equipment.

If you wish to use this equipment with the controlling software please follow the steps on page 41, else, please continue to follow the next steps, but without plugging the USB cable connector.









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#### **PROCEDURE** // INITIAL SETTINGS







#### 2'' select rotational speed. **Method 1: Fine Adjustment**

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D:CW

Press START/STOP until you see STATUS (S) changing to START.

Immediately after STATUS changes to START, both motors will start moving.





RPM will show the corresponding information for the selected LEVEL.

By pressing the UP button, the rotational speed will increase. To decrease rotational speed, press the DOWN button.

#### **PROCEDURE** // OPERATING



Asure that all accessories are properly and firmly attached before starting product operation. Failure to comply could cause injury, damage or bad functioning.



Each time that you press the UP or DOWN key to adjust rotational speed. the level will increase or decrease in one step; but if you desire to increase or reduce speed at a fast pace, press and hold the key until the desire level is reached.

#### LEVEL: S:START RPM:

#### LEVEL:120 SISTART RPM: 1240





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#### PROCEDURE // OPERATING



## Ilusionator Kit // User´s manı

#### LEVEL:120 RPM:1420

Press any key (but the RESET button) to show actual RPM measure.

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Depending on the model, you can get any of these knob controls.

Relax! Both of these controls work the same way.







Press the START/STOP button if the equipment is currently rotating. The motor's motion will stop.

#### b. Sele

C.

Select the new desired direction by following the procedure described in STEP 1 (Page. 32).

Start / Stop

Press the START/STOP button again to start the system disk rotation in the desired direction or new direction.



Please note that this product has a volatile memory where the data and movement directionality will be stored. This memory will be erased by turning off or resetting the device.

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#### Note

At this point the connection and execution steps have been followed without the software; If you want to deploy the device with this, you can go to:

www.delarosaresearch.com/downloads.php?t=delarosa

Then follow the steps below to connect your device to your computer.







#### **USB** Cable

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Connect the USB B connector of the provided USB Cable to the main unit, then connect the USB A connector to a computer's USB port.

#### **Running the Controlling Software**

While the computer is on and OS is running, execute the Controlling software by double-clicking on its icon. Follow up the instructions presented therein.



Please keep in mind that the equipment will start the communication protocol once the USB is plugged into the computer. The main unit will re-start automatically and the LCD control will display the re-start sequence. That means the unit has been reset by the computer to initiate the communication protocol.



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If you wish to acquire the controlling software please follow this link:

http://www.delarosaresearch.com/downloads.php?t=delarosa





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#### THIS IS THE END OF THIS USER GUIDE.

This was all the basic information you need for using the ILUSIONATOR SET; but this is just the beginning of the fun.

If there is something that is not clear to you, or if you have any questions, please feel free to contact us at any time.

We will be very happy to hear from you.

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