



# INSIDEOUT

INSTRUCTION MANUAL

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# INTRODUCTION

Thank you for purchasing ProMystic's Inside Out. I think you will find this to be a very power effect that is devious and so guilt free that you will feel like you are cheating. It is so light weight and so fair that it will defy examination. There is nowhere for the spectator to go.

The Inside Out box is made to high precision specification. I had several different designs that ranged from bulky and cumbersome to light weight and flimsy. I think this is the perfect combination of minimalistic design while still meeting all functional goals.

By far, the #1 request for a cube that you can modify to be anything you want. Through painstaking design I was able to achieve this in what I think is a very minimalistic design. You have the choice of laser cut wood sides, color cube sides, and you can make your own sides with whiteboards and Lexan covers. The Lexan covers are required to keep the markers from fading.

**CAUTION: The Lexan covers will scratch, but the scratches are almost imperceptible when over the top of the whiteboard tiles. I will replace Lexan covers at an affordable price.**



## **What you receive**

- Inside Out Cube
- Electronic transmitter
- Battery (CR1225 or BR1225)
- False Bottom
- Wood Emotion Tiles
- Color Tiles
- White Tiles
- Lexan Glass Tiles

## **Key Features**

- Configurable Sides
- High Strength plastic enclosure
- Empty Container
- Programmable 'Lock' Mode with no on/off switch or magnets
- Very long battery life
- Over 30 feet of range

*Inside Out is Built with Quality to Last a Lifetime*

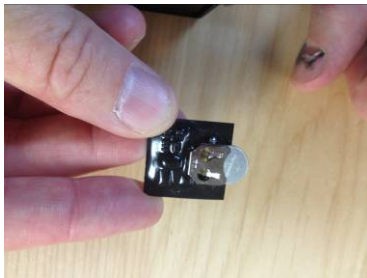
## PREPARING ELECTRONICS

### Remove Electronics and False Bottom



You will need a paper clip for this. Find the bottom of the cube and push the paper clip into the hole to push the bottom electronics and plastic false bottom out of the cube. Remove the electronics and false bottom with your fingers.

### Installing the Battery:



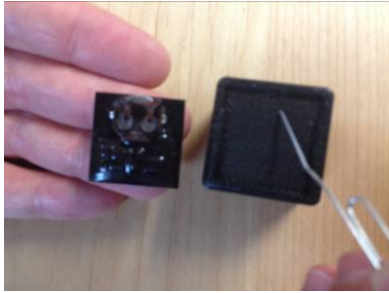
Install the battery with the '+' side up. When installing the battery, the '6' side is up when the battery clasp is up.

There are two programmable features that can only be programmed **ONLY** when you install the battery. You can set the features each time you install the battery. One is the 'Lock' feature. The lock feature allows you to dial a code with the cube to shut it off. This allows you to carry the cube around and conserve battery power since it will not unexpectedly turn on. The second feature is to program the 'frequency'. If you have purchased any ProMystic product it is set to the 'A' frequency. I have made special receivers on the 'B' frequency. The cube default is 'A' frequency, but you can set it to work on the 'B' frequency.

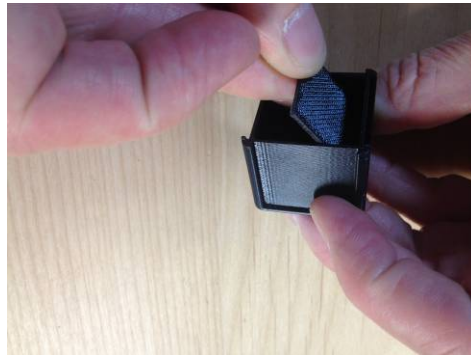
It is very easy to set the modes. This is done when you install the battery. When you install the battery you get a series of initial signals or buzzes.

- 1) The first buzz is ignored
- 2) If the second buzz is a '6', then you ENABLE the LOCK feature, any other number disables it.
- 3-4) If the Third buzz is a '6' followed by the fourth buzz a '1', then you set the cube to 'B' frequency. Both A and B receivers will work for the first four buzzes. Once the frequency 'A' or 'B' is set, only 'A' or 'B' will work. If you do not dial a 6-1 code, the default 'A' frequency is set.

## Installing the electronics into the base:



Install the electronics into the base with the batter going in first and covering the hole in the bottom of the box. There are four small posts in the corners of the box to hold it perfectly level. The battery clasp should cover the hold so that when you poke it out with a paper clip you are poking the battery.



## Installing the false bottom:

First install the electronic board with the battery side going in first. Then install the false bottom. The smoother side of the false bottom goes up. Then press fit the false bottom in place so it fits snug.

## CUSTOMIZING YOUR BOX

### Installing Engraved Wood Emotion Tiles in Sides:



The wood tiles are installed by inserting them into the grooves in the side of the cube. They are best to install them with the wood grain going up and down in this picture, the words are horizontal.

### Installing Tiles in the TOP and BOTTOM:



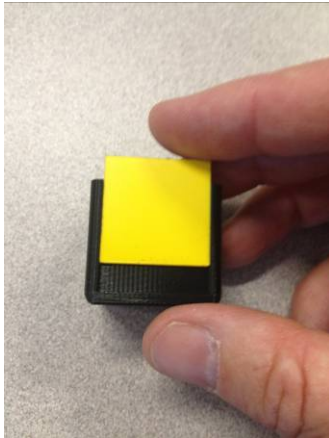
Notice in the lid and bottom that there are two wide grooves that are used for installing the tiles. Insert the tile into this groove first, and then push the tile into place. When installing the Lexan plastic tiles use the special tiles marked "Top" with polished side for the top and bottom. See whiteboard installation.



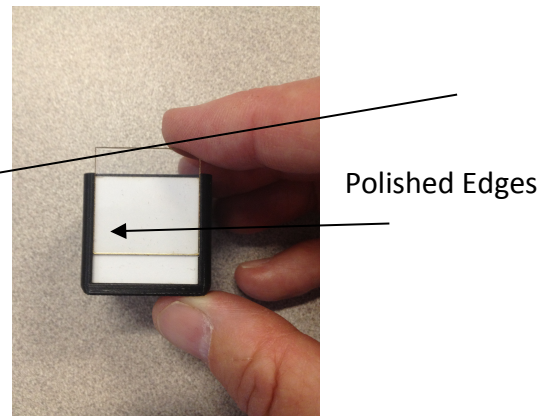
**Special Note:** *Love and Anger are cut a little smaller to be used in the top and bottom of the Inside Out cube. Notice the grain of the tiles as well. This helps the tiles bend into place.*

### Color Sides:

The color tiles are installed in the same manner as the wood tiles. Yellow and Black are used for 1 and 6 typically.



### Whiteboard Sides:



Notice that there are two clear Lexan tiles that are Labeled "TOP". They are special tiles for the top and bottom of the cube. They have special polished sides to make them easier to install into the top and bottom of the cube. You must use these in the top and bottom of the cube. The polished sides are on the left and right side as it slides in. This is makes is much easier to slid into the top and bottom slots.

## THE RECEIVER

### How to turn it on and off:



Slide the on/off switch. (See photo, below left.) When you switch the receiver on, it will vibrate for one second, letting you know it is ON. It does not vibrate when you switch it OFF.

ON

### How to install batteries:



The receiver comes with two CR2032 batteries already installed. When the batteries are drained, the receiver will give one long, weak buzz, or just stop working. You'll notice that the range also decreases when the battery is low.

To install new batteries:

- Remove the old battery by pushing it out of the battery holder with a non-metallic object – a toothpick, pencil, or corner of a credit card.
- Look for the “+” indicator on the battery, and hold it with that side toward you. Slide it into the battery holder. (See photo, below right.)

## **BATTERY TIPS**

Good batteries will give you about ten hours of active performance time. I recommend Panasonic, Sony, Energizer, or Renata. You can buy them online for less than \$1 apiece. I get my batteries at [www.digikey.com](http://www.digikey.com). Keep new batteries on hand, storing them so they don't contact each other or other metal.

You should keep the receiver off when you're not using it, or the battery will drain. You do not need to remove the batteries.

If you're performing for more than an hour, keep the receiver turned off as much as possible. Leaving it on for hours drains the batteries quickly. Using it for ten minutes at a time will give you much better battery life, because this allows the lithium batteries to recover from the load.

## HOW THE CODES WORK

The box has six sides. The transmitter inside sends out one to six pulses, according to which side is on top. The receiver vibrates or “buzzes” in response, telling you what you need to know.

Each sequence of buzzes is followed by a pause. The sequence repeats ten times, unless the cube is turned before the tenth signal. For example, a “4” registers as buzz/buzz/buzz/buzz/pause; buzz/buzz/buzz/buzz/pause; etc.

The codes are easy to remember in the English language. 1-white (sounds like), 2-blue (sounds like), 3-red (3-letters in red), 4-orange (sounds like), 5-green (5 letters in green), 6-yellow (6 letters in yellow).

# of Buzzes	Colors
1	White
2	Blue
3	Red
4	Orange
5	Green
6	Yellow

# of Buzzes	Colors
1	Anger
2	Bliss
3	Desire
4	Faith
5	Fear
6	Love

### **Tips:**

1) The cube must be held level (i.e., flat on a hand or table) to give an accurate reading – however, it is slightly forgiving and even if tilted up to 15 degrees from level, the cube will still give a correct read. A cube tilted more than 15 degrees may read the next closest side, though, which would leave you uncertain. To avoid this, manage your spectators and show them how to hold the cube (i.e., flat).

2) If a spectator turns the cube to a new side, the receiver must finish reporting the current number before it reports the next number. It won’t go through ten repeats, but will finish its current sequence of buzzes, then change to the new number.

## Active, Sleep, Deep Sleep, and LOCK Modes:

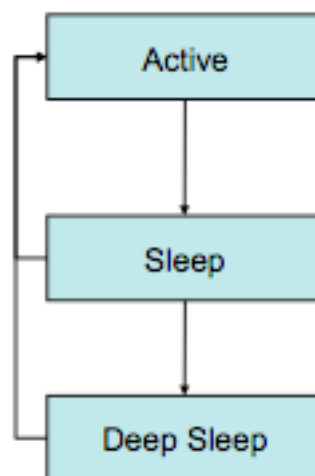
With a battery installed, the cube is always “on.” To conserve battery life, the cube has four modes: active, sleep, deep sleep, and lock.

**Active:** When the cube is turned to a new side, it will transmit the code for that side ten times.

**Sleep:** After transmitting ten times, the cube will go to sleep. At this point it will transmit only if turned to a new side. This approach not only preserves battery life, but also lets you continue your routine without all the buzzing in your pocket. When a new side of the cube is selected, the cube will go active within 4 seconds and transmit ten times.

**Deep sleep:** If the cube isn’t moved for about 10 minutes, it will go into deep sleep. The cube sleeps for 30 seconds at a time, then briefly checks to see whether it has been turned to a new side. If it detects a new side it will wake up. When the cube is turned, it will wake up within 30 seconds and go into the active state. When the cube is not in use, it stays in deep sleep to conserve battery life.

**Lock:** In this mode the cube will not wake up until it receives a special code. To put the cube to sleep, dial the cube 1-2-3-4-5-6. You must enable the ‘Lock’ mode while installing the battery to enable this feature. It is used to lock the cube off for travel with the cube. To unlock the cube, turn the 6 side up. Wait for the ‘6’ signal and then dial a ‘1’ followed by a ‘6’.



## **IMPORTANT WARRANTY**

Promystic products are warranted (i) against defects and workmanship and (ii) that when properly used, will execute their programmed instructions, for a period of 1 year from the date of product purchase. We will, at our option, repair or replace Promystic products that prove to be defective either upon your receipt or through normal usage.

If a defective Promystic product has been obsolete by us or is no longer in production and deemed to be non-repairable, we will, at our option, provide an equivalent product or system or provide a trade-in credit.

**WE DO NOT WARRANT THAT THE OPERATION OF A PROMYSTIC PRODUCT, ITS FIRMWARE AND HARDWARE, WILL BE UNINTERRUPTED OR TOTALLY ERROR FREE.**

### **LIMITATIONS OF WARRANTY**

The foregoing warranty shall not apply to defects resulting from maintenance performed by anyone other than us, modifications made by you or any third party, misuse, abuse, neglect, accident, repair, improper installation, alteration, mishandling, operation outside the environmental specifications for the product, or improper settings or maintenance.

### **EXCLUSIVE WARRANTY**

**THIS WARRANTY WILL CONSTITUTE OUR SOLE AND EXCLUSIVE LIABILITY AND YOUR SOLE AND EXCLUSIVE REMEDY FOR BREACH OF OUR PRODUCT WARRANTY, AND WE WILL HAVE A REASONABLE TIME IN WHICH TO PROVIDE THE REMEDY. YOU ACKNOWLEDGE THAT THIS WARRANTY SHALL BE IN LIEU OF AND TO THE EXCLUSION (TO THE FULLEST EXTENT PERMITTED BY LAW) OF ANY OTHER WARRANTY, CONDITION, TERM OR UNDERTAKING OF ANY KIND, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, RELATING TO OUR PRODUCT INCLUDING (WITHOUT LIMITATION) ANY AS TO THEIR CONDITION, QUALITY, PERFORMANCE OR FITNESS FOR A PURPOSE. IF YOU ARE A CONSUMER THE ABOVE ALL SHALL NOT ACT TO EXCLUDE YOUR STATUTORY RIGHTS.**

**Model:** IO

**FCC ID:** 2ARYL-IO

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**CAUTION:** Modification or changes to this equipment not expressly approved by the manufacturer may void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**RF Exposure Information** The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.