

# ProMystic RealDie

Thank you for purchasing ProMystic's RealDie. You can carry RD with you and be ready to perform at a moments notice. Very small footprint, and fits easily in your pocket. RealDie looks and feels like an ordinary die, but it gives you serious performance power.



## What you receive

- Single maintenance-free electronic die
- Magnetic shut-off holder
- Wood-paneled storage case

## Key Features

- 100% seamless die looks and feels real
- Weight and feel of the plastic material are nearly identical to a real die
- Dice is perfectly balanced to roll fair numbers
- Range of over 50 feet
- Permanent battery can provide 10+ years of moderate use
- Water proof, shock proof, practically indestructible

*RealDie is Built with Quality to Last a Lifetime*  
[www.promystic.com](http://www.promystic.com)

# The Receiver

## How to turn it on and off

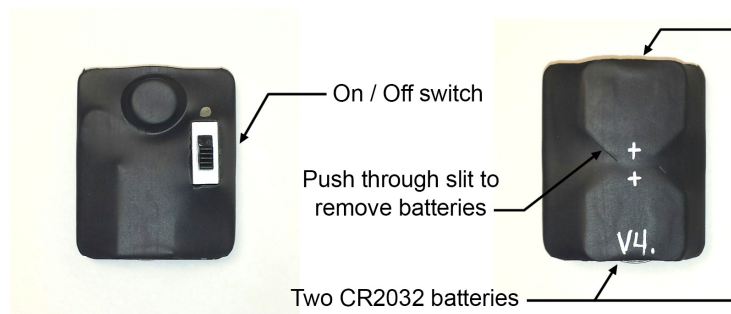
Slide the on/off switch. (See photo, below left.) When you switch the receiver on, it will vibrate for one second, letting you know it is activated. It does not vibrate when you switch it off.

## 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.

# Theory of Operation

## Using the Die

RealDie should be stored in the black magnetic holder when not in use. Open the wood paneled storage case to remove the magnetic holder and die. Remove the die from the magnetic holder, instantly turning the die on to send signals to the receiver unit. To conserve battery when the die is not in use, you need to store it in the provided magnetic holder in this orientation: 1-side facing up, 5-side facing the magnet, as shown below.



## How the Numbers are Sent

Each RealDie 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 eight to ten times, unless the cube is turned before the final signal. For example, a “4” registers as buzz/buzz/buzz/buzz/pause; buzz/buzz/buzz/buzz/pause; etc.

## Tips

1) The die must be held level (i.e., flat on a hand or table, or in a cup) to give an accurate reading – however, it is slightly forgiving and even if tilted up to 20 degrees from level, the die will still give a correct read. A die tilted more than 20 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 die (i.e., flat).

2) If a spectator turns the die 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.

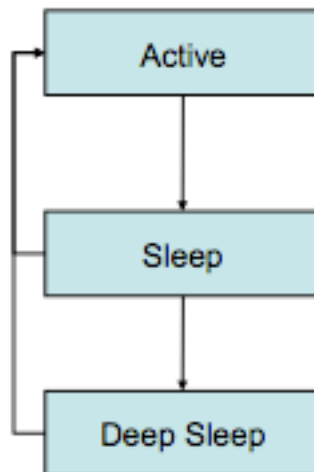
## Active, Sleep, and Deep Sleep Modes

Once the die is removed from the magnetic holder, it is instantly “on.” To conserve battery life, the die has four modes: active, sleep, and deep sleep.

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

**Sleep:** After transmitting eight to ten times, the die 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 die is selected, the die will go active within 4 seconds and transmit eight to ten times.

**Deep Sleep:** If the die isn’t moved for about 15 minutes, it will go into deep sleep. The die sleeps for 30 seconds at a time, then briefly checks to see whether it has been turned. When the die is turned, it will wake up within 30 seconds and go into the active state. When the die is not in use, it stays in deep sleep to conserve battery life.



# **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:** RD

**FCC ID:** 2ARYL-RD

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.