

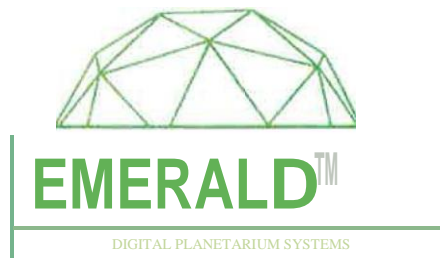


EMERALD™ Planetarium Systems

<http://emerald-planetariums.com>

# Instructions

**EMERALD™ inflatable planetarium**  
**MODEL: DELUX INFLATABLE DOME**



Revision date: January 2017



## EMERALD™ inflatable planetarium domes

### MODEL: DELUX INFLATABLE DOME



EMERALD™ planetarium domes are inflatable domes designed to be easily set up and taken down. The dome design is based upon years of experience with the unique aspects of digital dome projection and inflatable dome manufacturing.

#### **Note:**

**It is important to note that the domes are not designed for outdoor use. We do not warranty domes that show damage from outdoor use, direct sun, if a Dome is frozen or stored outdoors in below freezing conditions.**

**Domes must be stored and used at room temperature only.**

See also 'Warranty & usage conditions



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# Features summery

## EMERALD™ PORTABLE PLANETARIUM

- The highest quality projection surface hides wrinkles and enhances black levels and contrast
- Hemispherical projection, suitable for digital projection
- 10-15 minute setup and takedown time
- Easy vertical zippered doorway for entry and exit without crawling or squeezing
- Stays inflated while people entering or exiting the dome
- The dome has no floor, allowing for easy emergency exits
- Wheelchair accessible
- A high velocity-controlled blower, inflates the dome and provides continual fresh air exchange
- Inflation airflow is directed away from the audience for comfort, via dedicated vents
- Quiet operation with adjustable fan speed control
- Proprietary matt-gray fabric

| Dome diameter                  | 4 meters                                | 5 meters                                | 6 meters                                | 7 meters                                | 8 meters                                |
|--------------------------------|---|---|---|---|---|
| Supporting springlines         | Yes                                     | Yes                                     | Yes                                     | Yes                                     | Yes                                     |
| Height at zenith               | 2.8 meters                              | 3.3 meters                              | 3.9 meters                              | 4.6 meters                              | 5.1 meters                              |
| Estimated Max seating capacity | 15 adults<br>or 20<br>young<br>children | 25 adults<br>or 40<br>young<br>children | 45 adults<br>or 60<br>young<br>children | 60 adults<br>or 80<br>young<br>children | 70 adults<br>or 90<br>young<br>children |



## DETAILS

The EMERALD™ PORTABLE PLANETARIUM dome provides a matte projection surface which hides wrinkles for high quality digital projection. The gray interior enhances the black level of digital projectors for a truer black night sky.

The structure supports people's entrance and exit to the dome, the dome should stay inflated for quite some time.

We recommend entering any audience members in wheelchairs first, by lifting the side of the dome and wheeling them under. This avoids unnecessary wear on the fabric near the door.

Set up takes about 15 minutes, and take down from 10-15 minutes. In case of emergency, the dome can be flipped over the audience within a few seconds since there is no floor on the dome. Alternately, people can duck under the skirt of the dome to exit quickly.

Although the domes are opaque, they can acquire a pinhole light leak over time. These are usually visible only in a bright room. A pinhole is easily patched with a small circle of the extra cloth provided.

It is advised to turn off any light or heat source above the dome.

**We advise against using the domes outdoors.**



# Operating the EMERALD™ Dome

## Unpacking

Note: we highly recommend using the dome inside a sun-and wind-protected environment.

### **Step 1**

The dome is being shipped folded, inside a soft carry bag.

Unpack the inflatable dome and place it on a clean and firm surface

*\*It is highly recommended to place the dome on a carpet/mat and let the audience to enter barefoot or with socks only*



### **Step 2**

Place the Air blower next to the dome. Make sure that it is turned OFF.

Connect the air blower into a suitable electric source.





### **Step 3**

Connect the air tube into the Air blower.

Use the Velcro stripe and tighten it firmly to the air blower.



### **Step 4**

Turn the Air blower ON

Note: There are 3 different operation speeds .



After full inflation one can reduce the speed from HIGH to - MEDIUM or LOW. This will enable a more quite operation.



## Inflating the dome

### **Step 4**

Lift the entrance hall in order to allow the inflation of the dome  
(you can leave the entrance hall free, after it stands by itself)



Make sure that the air tube is paralleled to the ground,  
and in one line with the air blower



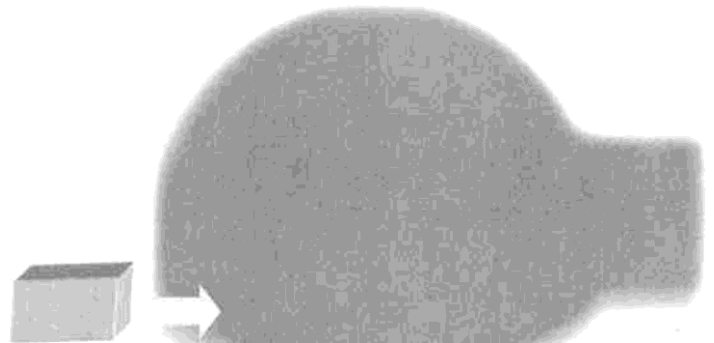
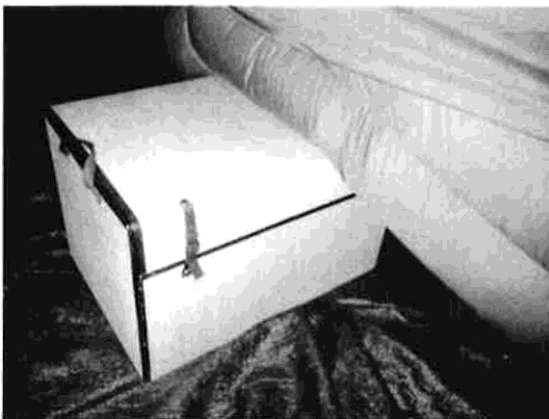
- Wait for 5-10 minutes for full inflation of the dome
- It is recommended to enter the dome barefoot or with socks only.
  - Shoes/dust may ruin the dome and create pinholes over time.





# Inserting the EMERALD™ projection system Into the Dome

Once the dome is fully inflated, approach the opposite side of the entrance, lift the dome with one hand and gently insert (push) the wooden box (with the projector in it) inside the dome with your free hand.



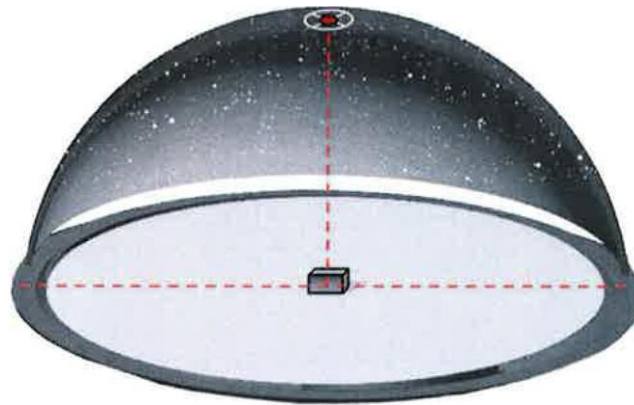
**Place the EMERALD™ projector (black case) in the center of the dome.**

It's recommended to **place the projection unit on top of the wooden box.**

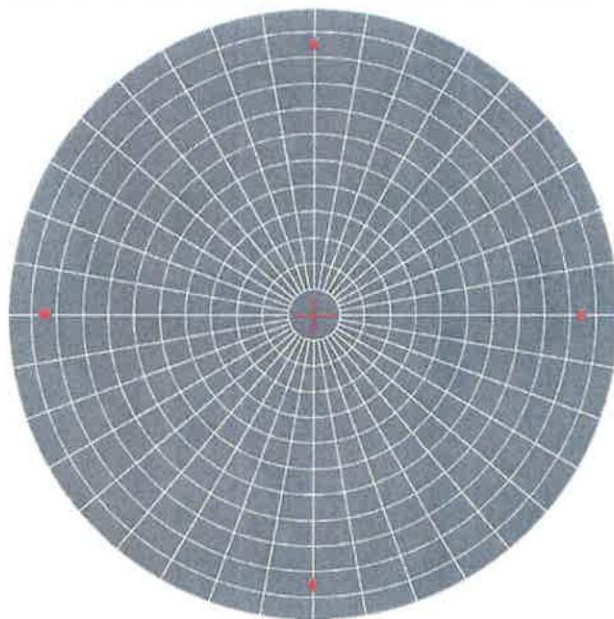


It is recommended using a small lamp inside the dome, in order to setup in a lightened and safe environment.

Dome's central point  
"Above the head"



**Tip:** use the "Align grid", located on the EMERALD™ PC's desktop in order to refine the final projector's alignment within the dome.





## Deflating the dome

### **Step 1**

Take all the equipment out of the dome.

The dome has to be completely empty.

### **Step 2**

Turn the air blower off.

Detach the air tube from the blower and let the dome to completely deflate (5-10 minutes).





## Folding the dome

### **Step 1**

Fold the dome into 2 halves - with the gray screen on the inside

It is important to protect the gray screen from getting dirty.



Fold the dome like a sleeping bag - see image.

Start folding from the door's opposite side.





## Storage

Keep the dome inside the protective bag, in room temperature and dry environment.



Direct sun can cause the dome to heat to over 40 degrees Celsius damaging the glue that covers the dome seams.

If a Dome is frozen or stored outdoors in below freezing conditions, it is possible that the flocked surface will delaminate.

Domes must be stored and used at room temperature only.



# Warranty & usage conditions

## EMERALD™ INFLATABLE PLANETARIUM DOME

### Three-Year-Limited-Warranty

**Our domes are not warranted for outdoor use.**

**Make sure to operate the equipment on leveled, clean and dry surfaces only.**

Emerald™ planetariums warrants that the Emerald™ portable planetarium will be free from defects of workmanship and materials for a period of three (3) years from the original purchase invoice date from Emerald™ planetariums-Bareket observatory (warranty period). During the warranty period, should a defect arise which results from a breach of warranty, Emerald™ planetariums will repair or replace the product free of charge other than shipping and handling charges. In no event will Emerald™ planetariums liability exceed the product purchase price. Emerald™ planetariums stand behind the products it sells.

This warranty does not cover damage caused by accident, improper care, modifying the system and its components, negligence, getting the system wet, storing in an environment below freezing, pinholes in the dome, normal wear and tear, or the natural breakdown of colors and materials over extended time and use.

Damage not covered under warranty will be repaired for a reasonable rate and a fee will be charged for repair and return shipping. Customer is responsible for all reasonable collection costs, court costs, and attorneys' fees (whether or not suit is filed) incurred in the collection of any amount due.

Warranty does not apply to any product on which original identification information, Emerald stickers or warranty stickers have been altered, defaced, or removed.

External brands hardware:

The system may include components from external brands. These may have special warranties for each country. The warranty should be global, however Emerald planetariums has no direct means to enforce a given brand's warranty, as it depends on the local support efforts of each brand.



EMERALD™ Planetarium Systems

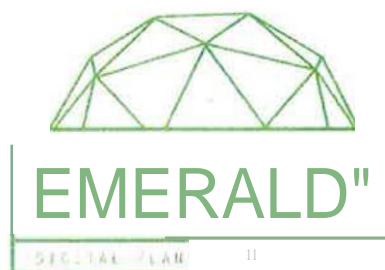
<http://emerald-planetariums.com>

Tech specs of the final product may vary from time to time, depending on the available hardware. The Bareket observatory is working consistently in order to create the most optimal products, while staying up-to-date for the latest technological developments.

This warranty gives you specific legal rights; you may have other rights, which vary from country to country. This warranty policy supersedes all previous warranty policies. Conditions may be changes without notice, keep updated about the latest warranty conditions at the Emerald planetariums web site: <http://emerald-planetariums.com/faqs.html#warranty>

We wish you a successful and enjoyable usage of your new  
Emerald™ planetarium!

The Bareket observatory team





# Warranty & usage conditions

## EMERALD™ PLANETARIUM PROJECTOR

### Three-Year-Limited-Warranty

Emerald™ planetariums warrants that the Emerald™ digital planetarium systems and Emerald™ dome & inflatable domes will be free from defects of workmanship and materials for a period of three (3) years from the original purchase invoice date from Emerald™-planetariums-Bareket observatory (warranty period). During the warranty period, should a defect arise which results from a breach of warranty, Emerald™ planetariums will repair or replace the product free of charge other than shipping and handling charges. In no event will Emerald™ planetariums liability exceed the product purchase price.

Emerald™ planetariums stands behind the products it sells.

This warranty only covers defective or workmanship encountered in normal use and service of a Product and does not apply in the following cases:

- a. This warranty shall not apply to any Product that shall have been subject to misuse, abuse, accident, disaster, improper cleaning or which has been contrary to current instructions.
- b. If a Product is defective as a result of leaking batteries or damage due to water or other liquid.
- c. Defective materials or workmanship where the defect is due to a Product having been serviced or modified by other than Emerald™ official service.
- d. Malfunction resulting from the use of accessories, attachments, supplies, parts or devices (including, without limitation, batteries, drivers, USB attachments, hard drives and other accessories) that do not conform to Emerald™ specifications.
- e. Damage resulting during shipment. (Claim must be presented and examined by the shipper).
- f. Damage or service resulting from modifications or alterations to a Product in any way (including any alteration or removal of its serial number or identification marks).
- g. Projector's lamp replacement or issues due to overheat or the natural breakdown of colors and materials over extended time and use.

Warranty does not apply to any product on which original identification information, Emerald stickers or warranty stickers have been altered, defaced, or removed.

Damage not covered under warranty will be repaired for a reasonable rate and a fee will be charged for repair and return shipping. Customer is responsible for all reasonable collection costs, court costs, and attorneys' fees (whether or not suit is filed) incurred in the collection of any amount due.





External brands hardware:

The system may include components from external brands (ie BenQ, Dell, Sony or else). These may have special warranties and conditions for each country. The warranty should be global, however Emerald planetariums has no direct means to enforce a given brand's warranty, as it depends on the local support efforts of each brand. Either way we will do our best to assist with future potential failures as they may occur. Tech specs of final product may vary from time to time, depending on the available hardware.

The Bareket observatory is working consistently in order to create the most optimal products, while staying up-to-date for the latest technological developments.

The images in this booklet and/or at the official website are for demonstration purposes only.

Software:

Stellarium is being offered for free (we are not selling it). For non-commercial or education use only. For profit use by commercial entities is not allowed by the general license, and would require a different license terms. Please contact the software developers for legal options.

Shows - the standard-package is provided 'as is' with the system, for no cost, while subordinate to the specific producer's terms/conditions of use.

This warranty gives you specific legal rights; you may have other rights, which vary from country to country. This warranty policy supersedes all previous warranty policies.

Conditions may be changes without notice, keep updated about the latest warranty conditions at the Emerald planetariums web site

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