

LEARN ALL ABOUT STAR CONSTELLATIONS AND PLANETS WITH THE **CYBERSKY CD**



**Computer requirements for using the CyberSky CD:**  
Windows 95, 98, ME, NT 4.0, 2000 or XP.  
Minimum screen resolution 800x600.  
PC with an Intel Pentium or compatible processor.

Requires 6 x AA batteries (not included).

**WARNING!**  
Do not point light pointer directly at the eyes of humans and animals.



The purpose of the crossed-out wheeie bin symbol is to remind us that most electrical product and batteries contain trace elements which could be harmful to our environment and therefore our health. We must all be careful to dispose of them responsibly in a specifically designated way – either using a collection scheme or into the correctly labelled civic amenity (NOT into general waste) – this will help your local authority to arrange to recycle or dispose of them in the appropriate manner.



Please retain the information on this manual for future reference.  
Colour, designs and decorations may vary from those shown in the photographs.  
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WATCH THE STARS MOVE AROUND **YOUR ROOM**



Inspired by **Discovery CHANNEL™**

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# Planetarium

## Instruction Manual

## Components

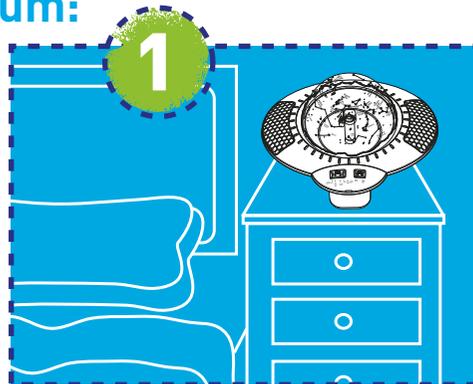


\*Choose position 1 for functions OFF, position 2 for rotation only, position 3 for sound only and position 4 for rotation and sound.

## Using The Planetarium:

1. Fit the globe over the bulb on the light stand. Place the light stand on a flat surface, such as a bedside table.

N.B. For best results (clearer projection) stand the Planetarium on a higher surface closer to the ceiling. Move the unit around to find the best place!



2. Your Planetarium comes with one bulb fitted and one spare. The bulbs are screwed into the socket, and then a cover is placed over and screwed (by screwdriver) into place. The globe then fits by lowering onto the stand (hole side down). Once the globe is fully lowered, turn the globe clockwise to lock it in place.

Your Planetarium is now ready for action!

### **WARNING! ADULTS ONLY: TO REPLACE THE BULB...**

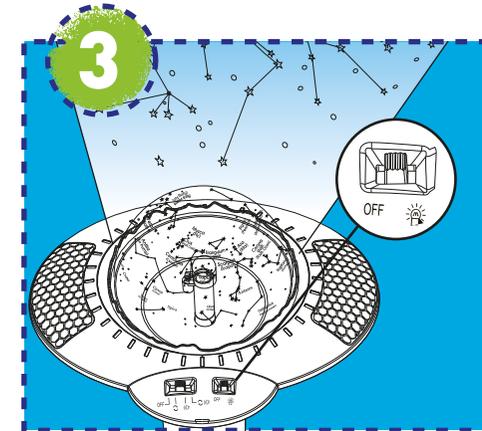
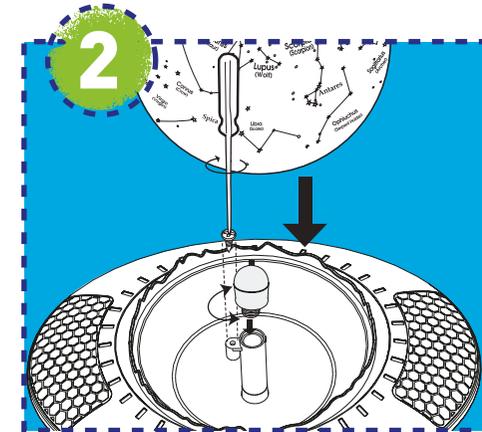
- (i) For safety, before you replace the bulb, please turn off the light for at least three minutes so that it may cool down.
- (ii) Open the bulb cover using a Phillips screwdriver, then remove the old bulb and replace it with a new 2.4V 500mA bulb. Replace the bulb cover and secure again using the screwdriver.

3. Turn the light ON by sliding the light switch across to the right. The light will then project the stars onto your walls and ceiling through the holes in the globe. To see more clearly, you should keep the room as dark as possible.

To turn the light OFF, simply slide the switch back to the left.

4. Position 1 for the function switch is OFF. Slide the function switch to position 2 (rotation icon) to make the globe rotate, creating a planetarium effect. Slide the switch to position 3 (sound icon) to hear interesting and educational facts about the planets (which do not form part of the light show, but are covered in much more detail in your CD). Slide the switch to position 4 (rotation and sound icon) for rotation of the star globe AND the commentary about the planets, (N.B. as above, planets are not part of the star light show).

When you want to turn the functions off, slide the switch back to position 1 (OFF).

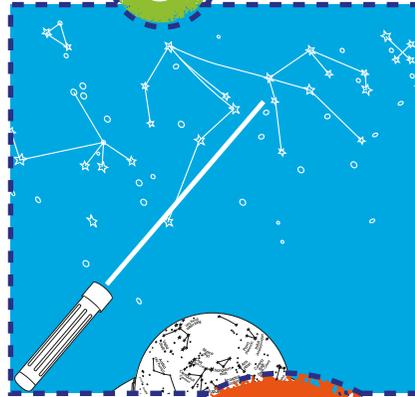


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- Now take the pointer from its holder, located on the light stand. Switch it on to point at the stars and constellations that are moving across the room. It is perfect to help you show your family and friends what you are looking at.

### TO REPLACE THE BULB

This should only be done by an adult. Remove the old bulb and replace it with a new 2.4V 500mA bulb.

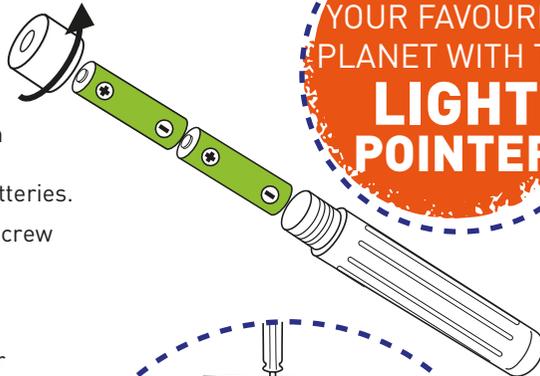


POINT OUT  
YOUR FAVOURITE  
PLANET WITH THE  
**LIGHT  
POINTER**

## Battery Instruction For Adults

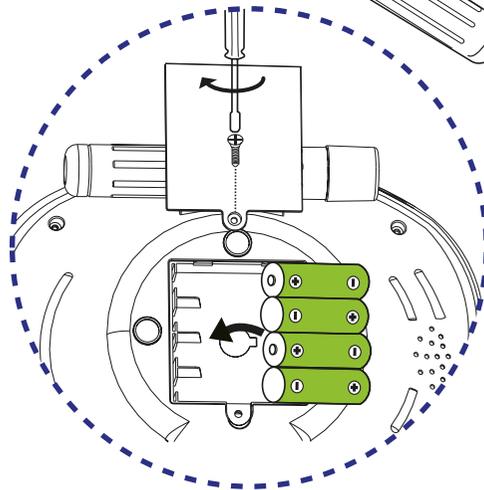
### For Pointer:

- Unscrew the pointer head in an anti-clockwise direction, and insert 2 x size AA (LR6) 1.5V batteries.
- Replace the pointer head and screw it back into place.

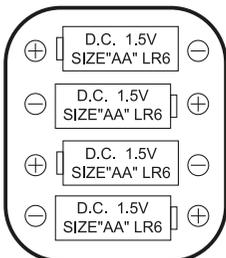


### For Planetarium:

- Unscrew the battery door cover with a Phillips screwdriver, and insert 4 x size AA (LR6) 1.5V batteries.
- Replace the battery cover and screw it back into place.



### For Battery Pack:



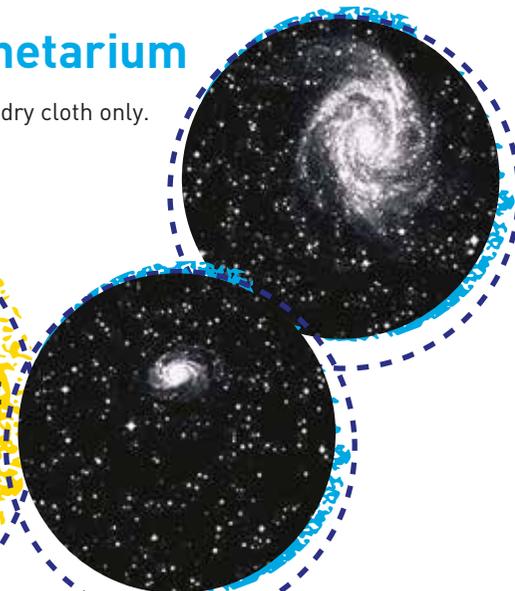
## IMPORTANT INFORMATION - Safe Battery Usage

- Batteries should only be replaced by an adult.
- Be sure to insert batteries correctly to prevent battery leakage.
- Always use fresh batteries, do not mix old and new.
- Replace all batteries at the same time.
- Do not mix alkaline, carbon-zinc or rechargeable batteries. Use only batteries of the same or equivalent type as recommended.
- Do not attempt to recharge non-rechargeable batteries.
- Always remove exhausted or dead batteries from product.
- If the unit will not be used for an extended term, remove the batteries. Otherwise batteries may leak or cause damage.
- Do not short-circuit the terminals.
- Make sure the battery compartment is secure.
- Do not take a battery apart.
- Do not dispose of batteries in fire; they may explode.
- Do not immerse battery-operated toys in water; wipe clean instead.
- Rechargeable batteries are to be removed from the toy before being charged.
- Rechargeable batteries are only to be charged under adult supervision.

## Care Tips for the Planetarium

- Clean the Planetarium light with a clean, dry cloth only.
- Do not immerse the unit in water.

ACCORDING  
TO LEADING  
ASTRONOMERS THERE  
ARE **BETWEEN 200 AND  
400 BILLION STARS IN THE  
MILKY WAY GALAXY.**  
EVERY INDIVIDUAL STAR  
YOU CAN SEE WITH THE  
NAKED EYE IS IN THE  
MILKY WAY.



## Planetarium

The Planetarium combines an impressive visual recreation of the constellations that make up our expansive universe. Using the motorised Planetarium to project the rotating universe onto a ceiling, children will learn to identify groups of stars and be able to point at them with the light pointer. Children can choose to watch the stars move across the ceiling or listen to a commentary about the planets (not part of the light show) just by a simple flick of a switch. The enclosed CyberSky CD is full of details about stars, constellations, planets and other phenomena in the night sky.

## Your CyberSky CD Features:-

**CyberSky lets you do all of the following, and much more.**

- View colourful, detailed maps of the sky as seen from any location on the Earth at any moment from 15,000 BC to 15,000 AD.
- Display constellations, asterisms, about 2.5 million stars, over 5,500 deep-sky objects, the Milky Way, the Sun and Moon, planets, both moons of Mars, Jupiter's four brightest moons, Saturn's eight brightest moons, the five brightest moons of Uranus, Neptune's brightest moon Triton, asteroids, comets and meteor showers.
- Display proper-motion vectors, which are lines that show the speeds and directions that the stars are moving.
- Display the cross-section of the Earth's shadow at the distance of the Moon, which lets you see the circumstances of lunar eclipses.

WHEN YOU LOOK UP AT THE SKY ON A CLEAR NIGHT YOU CAN SEE STARS, BUT WHAT ARE THEY? STARS ARE BALLS OF GAS HELD TOGETHER BY THEIR OWN GRAVITY. **DID YOU KNOW THAT THE SUN IS A STAR, AN INCREDIBLY HOT BALL OF GLOWING GASES AT THE HEART OF OUR SOLAR SYSTEM? WITHOUT THE SUN'S INTENSE ENERGY AND HEAT, THERE WOULD BE NO LIFE ON EARTH.**



TAKE TIME TO LOOK AT THE CONTENT OF THE **CYBERSKY CD** IT IS JAMMED WITH DETAIL ABOUT OUR UNIVERSE

- Display the paths of the Sun and Moon, planets, asteroids and comets, with respect to the background stars and the horizon.
- Display equatorial, horizontal, ecliptic, and galactic coordinate-system lines, as well as the positions of the coordinate-system poles, the equinoxes and solstices, and other important points in the sky.
- Display finder circles like those you see through a Telrad reflex sight or a similar sighting device.
- Save maps to files and open them again later, just like saving and opening documents in a word processor. Many sample maps are included. You can also save maps as Windows bitmap, GIF, JPEG, PNG, and TIFF images.
- Print beautiful, high-quality maps on any printer supported by Windows, in black and white or in full colour. Use print preview to see what a printed map will look like before you print it.
- Use night-vision mode to preserve the dark adaptation of your eyes while using the programme outdoors as you observe the night sky.
- Use the animation feature to watch objects move across the sky, solar and lunar eclipses take place, moons revolve around planets, and many other astronomical events unfold at whatever pace you desire.
- Display a view of the planets and their orbits around the Sun. This view appears in a separate window, so you can watch the planets revolve around the Sun and see them move across the sky at the same time.

THE SUN IS **109 TIMES BIGGER THAN** PLANET EARTH!

- View detailed information about objects, as well as information about the seasons of the year, the beginning and end of twilight, the visibility of the planets, and the phases of the Moon.
- Customise the programme's user interface by rearranging menu commands and toolbar buttons, adding commands you use often to new or existing toolbars, and reassigning keyboard shortcuts to your liking. You can also customise the application's appearance by selecting among eight Office-like themes.

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THE **MOON IS APPROXIMATELY 384,400KM FROM EARTH**. EVEN THOUGH IT IS ONE OF THE MOST SIGNIFICANT OBJECTS IN THE NIGHT SKY, SECOND ONLY IN BRIGHTNESS TO THE SUN, IT IS ACTUALLY SMALLER THAN OUR PLANET. AT JUST A LITTLE MORE THAN A QUARTER OF THE SIZE (27%).

