

P38-GE031-81046000



User's Manual

Product Specifications

★ HOMESTAR PRO 2nd Edition Unit	★ AC adapter
Outer dimensions 167 X 165 X 151	Power rating
Weight 0.7kg	Input AC100V, 50/60Hz
Power source AC adapter	Output DC 5V, 1.2A
Power consumption approx. 4W	

Thank you for purchasing HOMESTAR PRO 2nd EDITION Home Planetarium.
In order to properly use this product, please read the User's Manual prior to
use. Please keep this User's Manual so that you may refer to it as necessary.

SEGA
TOYS

~ To Start ~

This product was co-developed with Takayuki Ohira, who holds the Guinness World Record for "Most Advanced Planetarium", the MEGASTAR-II-Cosmos, so that you can enjoy the starry skies of the cosmos at home.

Japan, especially in the cities, suffers from light pollution due to neon lights, increase in nighttime lighting, making the stars of the night sky difficult to see. We developed HOMESTAR PRO 2nd Edition with the hope that you can experience comfortably, at home, the beauty of the night sky.

This product was developed so you can enjoy viewing the starry skies of the cosmos, comfortably, at home. This product does not have Planet Projection Functions, something normally found at commercial planetariums. We hope this product will spark your interest in stars and heavenly bodies, that you will visit a planetarium or go out and view the heavens, and have a wonderful experience.

Co-Developer Profile

Takayuki Ohira

Born in Kawasaki City, Kanagawa Prefecture, Japan in 1970, he started creating planetariums in elementary school days. In 1991, as a college student, he succeeded in creating an optical lens projection planetarium, Astroliner, although it was said to be impossible for an amateur to accomplish.

In 1998, he introduced Megastar, a portable planetarium weighing only 30kg, which projects 1.7 million stars.

In 2003, he developed MEGASTAR II-1 which projects 4.1 million stars, installed in Kawasaki Municipal Science Museum for Youth, followed by MEGASTAR II-3 which projects 5 million stars, installed in the National Museum of Emerging Science and Innovation. In December of 2004, MEGASTAR II-Cosmos was certified by Guinness as "The Most Advanced Planetarium in the World". In August 2005, he introduced the world's first home optical planetarium "Homestar".

Table of Contents

★ To Start/ Co-Developer Profile	1
★ Safety	3
★ Check Accessories	5
★ Part Names and Functions	6
★ Basic Operation	7
★ Adjusting Focus and Projection Angle	8
★ Changing Software Discs	9
★ Using the Diurnal Motion Function	10
★ Using the Meteor Function	11
★ Using the Timer	12
★ If you think there is trouble? (Q&A)	13
★ Inquiries/Warranty	14
★ Product Specifications/Warranty	15

Safety

This User's Manual contains many instructions and warnings that must be followed in order to safely use this product, and to prevent damage to your property.

All Sega Toy's products are designed with safety foremost. However, improper use may result in an accident such as fire or electrical shock. In order to protect the user, please adhere to the following guidelines in the use of any Sega Toys product.

Follow all safety guidelines.

DO NOT use a malfunctioning product.

If you notice anything unusual, sound, smell, or smoke, **DO NOT** try to repair the product yourself.

Be sure to read this User's Manual prior to use.

If a product malfunctions or is damaged, promptly contact the Sega Toys Customer Service Center or the store where you bought the product.

Turn off the electrical power and promptly contact the Sega Toys Customer Service Center or the store where you bought the product.

Icon meanings

The following icons are used in this User's Manual. Read the safety instructions only after understanding the meaning of these icons.

Warning

If you **DO NOT** follow these safety warnings, it could cause an accident such as fire or electrical shock, resulting in injury or death.

Note

If you **DO NOT** follow these safety notes, there could be an accident such as electrical shock resulting in injury or damage to surrounding property.

Icons prohibiting actions

DO NOT

NO HOT SURFACES

DO NOT GET IT WET

DO NOT TOUCH

DO NOT

DO NOT

Icons indicating instructions

Warning

Keep out of the reach of children.

HOMESTAR PRO 2nd Edition generates a small amount of heat during use. Prolonged direct contact might result in low-temperature burn. If during use the unit becomes overheated, stop use immediately.

DO NOT disassemble, repair, or alter the HOMESTAR PRO 2nd Edition unit or AC adapter. It could cause electrical shock, fire, or malfunction.

DO NOT insert or drop into HOMESTAR PRO 2nd Edition any metal or flammable objects. This could cause electrical shock or fire. Be especially careful if there are children in the house.

If the power cord is damaged (loose or cut) stop use immediately. There is danger of electrical shock or fire.

DO NOT forcefully bend, twist, pull strongly, or alter the power cord. This could cause damage to the cord, electrical shock, or fire.

DO NOT place heavy objects on top of the power cord. This could damage the power cord and cause electrical shock or fire.

DO NOT use any voltage other than the stipulated 100V AC. This could cause electrical shock or fire.

DO NOT use any AC adapter other than the one included. It could cause electrical shock, fire, or malfunction.

When removing the AC adapter from the electrical outlet, **DO NOT** pull on the power cord, be sure to hold the AC adapter and remove from the outlet. This could cause damage to the power cord, electrical shock, or fire.

This product is for use only in Japan. If used overseas differences in voltage and operating environment etc. could cause fire or malfunction.

DO NOT use direct current (DC), such as from ship's power supply. This could cause a fire.

DO NOT place the unit in direct sunlight. There is a lens inside, which could cause a fire.

DO NOT place the power cord near a heat source. It could melt the insulation on the cord and start a fire.

DO NOT, under any circumstances use or store this product in the following places. There is danger of malfunction, leakage or fire.

- Places with direct sunlight, high temperatures, such as a car with the windows closed.
- Places where the temperature will drop below 10°C.
- Places close to kitchen appliances, humidifiers, or places where it might come into contact with soot or steam.
- Places with high humidity or lots of dust.
- Unstable places with vibrations or shocks.

In the case where smoke comes from the unit, emits a strange noise or odor, continued use of the unit could cause electrical shock or fire. Promptly turn the power switch on the unit to OFF, remove the AC adapter power cord from the main unit, and remove the AC adapter from the electrical outlet.

In case of water or foreign object has entered the main unit, promptly turn the power switch on the unit to OFF, remove the AC adapter power cord from the main unit, and remove the AC adapter from the electrical outlet. Continued use could cause electrical shock or fire.

If HOMESTAR PRO 2nd Edition is dropped or damaged, promptly turn the power switch on the unit to OFF, remove the AC adapter power cord from the main unit, and remove the AC adapter from the electrical outlet. Continued use could cause electrical shock or fire.

If you will not use the product for an extended period, for safety's sake, remove the AC adapter power cord from the main unit, and remove the AC adapter from the electrical outlet, as there could be risk of fire.

DO NOT use the battery box from HOMESTAR PRO 2nd Edition, it will cause a malfunction.

DO NOT handle or operate HOMESTAR PRO 2nd Edition main unit or AC adapter with wet hands. This could result in electrical shock or fire.

DO NOT use in the bath or bathroom. This could cause electrical shock or fire.

DO NOT immerse HOMESTAR PRO 2nd Edition main unit or AC adapter in water or GET IT WET. This could cause electrical shock or fire.

If lightning occurs, **DO NOT TOUCH** the AC adapter, power cord etc. This could cause electrical shock.

Note

- ★ Set the main unit in a stable location. If you set it in an unstable location, it could fall or fall over, causing injuries.
- ★ While the main unit is plugged in, **DO NOT** look into the lens or point the lens at people's faces, it could damage their eyes.
- ★ **DO NOT** place vases, flowerpots, cups filled with water, makeup, chemicals etc. around the main unit. They could tip over and spill onto the main unit, causing malfunction.
- ★ **DO NOT** drop, subject to shock, compress, or handle the unit roughly, it could cause malfunction.
- ★ **DO NOT** move HOMESTAR PRO 2nd Edition, or change the software discs while the room is dark, this could cause an accident. Be sure to brighten the room first.
- ★ If the product is cold and you bring it to a warm room, the sudden temperature change may cause condensation to form on the lens, which will prevent the product from functioning properly. If this happens, keep approximately 10 minutes in the room to allow the condensation to clear.
- ★ If you will not use the product for an extended period, be sure to remove the software discs, leaving them in could cause malfunction.

※ Notes Regarding Usage of HOMESTAR PRO 2nd Edition (Be sure to read!)

- ★ When projecting, make the room as dark as possible so that you may enjoy the image. Also keep in mind that it takes 5-10min. (varies per individual) for your eyes to become accustomed to the darkness, so you may not be able to see the stars clearly when the projection is just turned on. Over time, your eyes will adjust to the darkness, so please wait patiently.
- ★ For the screen, a light-colored ceiling or wall, with few bumps will give the best effect. A space approx. 2.5-4m is best.
- ★ Optimal Projection Distance is approx. 2m - 2m30cm. If the projection distance is too long, you may not get a sufficient projection effect.
- ★ The color of the stars will depend on the light level of the room, color of the ceiling and walls, and projection distance.
- ★ When projecting the software disc "Moon and Earth" sometimes you can see a swirling striped pattern, this is a characteristic of the lens and not a defect.
- ★ Depending on what direction you set the software disc in the tray, the locations of the stars and moon will change. If you want to move the projection, leave the disc in the tray, turn the diurnal motion function to ON, and rotate the image. When you reach the desired image position, turn the diurnal motion function to OFF to hold the image.
- ★ Meteors will shoot approximately 1 every 30 seconds. The timing is random, however the location is fixed.
- ★ Clean the main unit and discs by wiping with a soft cloth. DO NOT use any chemical such as paint thinner, benzene etc.
- ★ HOMESTAR PRO 2nd Edition works only with the AC adapter included. DO NOT use the battery box from HOMESTAR, it will cause a malfunction.

Check Accessories

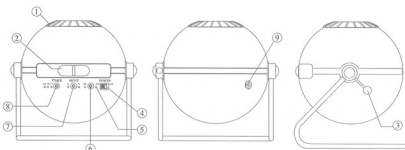
If parts are missing or damaged when you open the box, please contact us. DO NOT use the product as is. However, there may be minor differences between the actual product and what is shown on the package or in the diagrams.

- ① main unit 1
- ② software discs 3
- ③ AC adapter 1
- ④ lens cap 1
- ⑤ User's manual 1
[This Manual]



Part names and functions

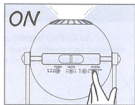
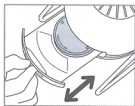
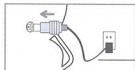
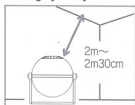
- ① Focus adjustment Dial
Use to adjust focus.
- ② Software disc tray
Use to place/remove the software discs.
- ③ Projection angle set screw
Use to adjust and fix the projection angle.
- ④ Power ON/OFF switch
Use to switch the main unit ON or OFF.
- ⑤ Power ON/OFF indicator light
Indicates if the main unit power is ON or OFF.
- ⑥ Meteor switch
Use to switch the meteor function ON or OFF.
- ⑦ Diurnal motion switch
Use to switch the diurnal motion function ON or OFF, and to set the diurnal motion direction clockwise or counterclockwise.
- ⑧ Timer switch
Use to set the timer and turn timer OFF.
(When the timer is OFF the power will turn OFF automatically after 3 hours.)
- ⑨ Power plug socket
Socket for the AC adapter plug



Basic Operation

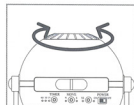
◆ The HOMESTAR PRO 2nd Edition has a powerful light, so DO NOT switch the power ON without a software disc in the tray. With no software disc in the tray the bright light could damage your eyes.

1. Place the main unit on a stable, flat surface level with the ground. (Optimal Projection Distance is approx. 2m - 2m30cm)
2. Insert the AC adapter power cord into the electrical outlet, insert the AC adapter plug into the socket at the rear of the main unit, insert the plug fully into the socket.
3. Grasp the handle of the software disc tray and pull it towards you, parallel to the ground. Check front/back of the software disc and place a disc face-up in the tray, push the tray closed by hand.
4. Remove the lens cap.
5. ※ Remove the lens cap only after placing a software disc in the tray.
6. With the focus adjustment dial facing towards you, rotate the dial clockwise and counterclockwise to adjust the focus.
※ When shipped from the factory the focus adjustment dial is closed tightly and may be hard to rotate. Rotate the dial approx. 5-10 times until focused.



Adjust Focus

1. Following "Basic Operation" on page 7, project an image with a software disc.
2. If the image in the middle of the projection is out of focus, rotate the focus adjustment dial located at the top of the main unit until focused.



Adjusting Projection Angle

1. Following "Basic Operation" on page 7, project an image with a software disc.
2. Loosen the set screws on both sides.
3. Grasp the main unit and adjust the projection angle.
4. Once the angle is set, tighten both of the set screws to set the angle.



1. Loosen set screws on both sides



2. Adjust the angle



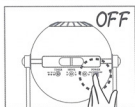
3. Tighten set screws on both sides

※ Notes About Adjusting the Projection Angle

- ★ If you try to change the projection angle without loosening the set screws on both side of the main unit, undue force will be placed on the set screws, and they could break. Use the method outlined above to adjust projection angle.
- ★ When projecting an image horizontally rotate the main unit so that the software disc tray handle is facing upwards. If the tray is facing downwards, the tray could slip out of place, leading to incorrect projection and even malfunction.
- ★ When projecting onto a surface that is diagonal to the projection surface the image will be elongated and may be out of focus. This is a characteristic of the lens and is not a defect.

Changing Software Discs

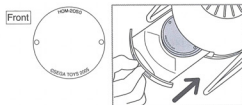
1. Switch the main unit Power ON/OFF switch to OFF.



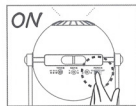
2. Pull the software disc tray towards you, remove the software disc.



3. Place new disc in the tray and push the tray to close.



4. Switch the main unit Power ON/OFF switch to ON, and the image will be projected.



※ If you turn the main unit Power ON/OFF switch to OFF with the room darkened, the room may become completely dark, which could lead to an accident. To be safe, brighten the room before you change software discs.

Using the Diurnal Motion Function

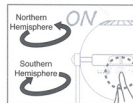
This function rotates the night sky clockwise and counterclockwise. Rotation speed is one revolution approx. every 12 minutes.

1. Following "Basic Operation" on page 7, project an image with a software disc.

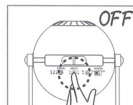
2. Press the diurnal motion switch (MOVE), located on the front of the main unit, to turn it on.



3. Press the switch once for counterclockwise rotation (star motion in the northern hemisphere), press again for clockwise rotation (star motion in the southern hemisphere) and the night sky will rotate. Indicator lamp N will indicate counterclockwise rotation and indicator lamp S will indicate clockwise rotation.



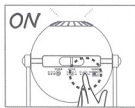
4. Push the switch one more time and diurnal motion function will switch OFF, stopping night sky rotation. When OFF, both N and S lamps will be dark.



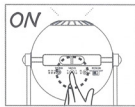
Using the Meteor Function

This function shoots a meteor randomly. The timing is random, but the location is fixed.

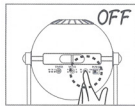
1. Following "Basic Operation" on page 7, project an image with a software disc.
2. Press the meteor switch (★//) to ON. When ON, the SS indicator lamp will be lit.



3. Next, press the diurnal motion switch, switching it to ON. (Note: meteor function will not activate if diurnal motion is OFF)



4. Meteors will shoot across the night sky in accordance with the rotation. Press the meteor switch again to switch the meteor function to OFF. When OFF, the SS indicator lamp will be dark.



Using the Timer

This function turns the main unit OFF after a set time period - handy for bedtime.

1. Following "Basic Operation" on page 7, project an image with a software disc.
2. Press the **TIMER** switch on the front of main unit to switch the timer ON.
3. Press once for 15 minutes, twice for 30 minutes, 3 times for one hour, the power will switch off in accordance with the time set. If you press the timer switch one more time the time function itself will switch OFF.
4. If the time function is left OFF, the power will switch OFF automatically after 3 hours.



※ When the power shuts down by the timer or by the 3 hour limit (if the timer is OFF), restart by pressing the power button.

If you think there is trouble? (Q&A)

Q I cannot see the stars clearly.

- A**
- Check that the stars in the middle of the image are in focus.
 - If you suddenly darkened the room, wait for your eyes to adjust to the darkness.
 - Check that the room and screen (ceiling, walls etc.) are dark.
 - Check if there is anything around the main unit blocking the projection.
 - Check that the projection distance is not too long. (Optimal projection distance is approx. 2m ~ 2m30cm)
 - If you are projecting onto ceiling/walls that are not white, it may be difficult to discern the colors of the stars.
 - When projecting onto a surface that is diagonal to the projection surface, the image may appear elongated and out of focus.

Q The Milky Way, Moon etc. are on the edge of the image and hard to see.

- A**
- Depending on what direction you set the software disc in the tray, the locations of the stars and moon will change. If you want to move the projection, leave the disc in the tray, turn the diurnal motion function to ON, and rotate the image. When you reach the desired image position, turn the diurnal motion function to OFF to hold the image.

Q When projecting the software disc "Moon and Earth" I can see a swirling striped pattern and strange objects.

- A**
- The swirling striped pattern is a characteristic of the lens and not a defect. If there is a small piece of dust etc. on the disc, this will be magnified and projected. If this happens, wipe the disc with soft cloth and project the image again.

Q The main unit switched OFF suddenly.

- A**
- Check and see if the timer function is ON. When the timer reaches its target time, it switches the main unit OFF, press the power switch again to switch the main unit ON.
 - Even if the timer is OFF, the main unit will switch OFF after 3 hours. Press the power switch again to switch the main unit ON.

Q The main unit does not function at all.

- A**
- Check that the power cord is fully inserted.

Q No meteors

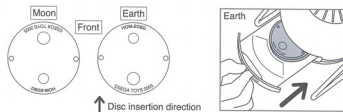
- A**
- Switch the meteor switch to ON.
 - Switch the diurnal motion switch to ON.

Q Night sky does not rotate.

- A**
- Switch the diurnal motion switch to ON.
 - Check that the software disc and software disc tray are set properly.

Notes Regarding Projection of the HOMESTAR disc "Moon and Earth"

The "Moon and Earth" disc has been made to make the most beautiful images of the Moon and Earth when the image is fixed and focused in the center of the projection. Following the diagram below, set the disc properly with diurnal motion switched OFF, and enjoy the view of the Moon and Earth.



※ Even if you set the disc straight in the tray, there are times when the Moon and Earth will not be in the center of the projection. If this happens, use diurnal motion function to adjust location.

※ If you view the "Moon and Earth" disc with diurnal motion ON and the image of Moon and Earth not in the center of the projection, you may be able to see a swirling pattern on the surface. This is a characteristic of the lens and not a defect. If the pattern bothers you, fix the image of the Moon and Earth in the center of the projection and switch diurnal motion OFF.

