

MEGASTAR ZERO SPECIFICATION

	H-type	M-type	L-type
Star Ball Diameter	27 cm(10.6 inches)		
Weight	11 kg		
Number of Projectable Stars	2.2 million		
Magnitude of Projectable Stars	11		
Galaxies (Milky Way Galaxy)	Reproduced as a cluster of pinpoint stars, close to reality		
Nebulae & Clusters	Reproduces 50 constellations, nebulae and other celestial clusters		
Applicable Dome Size	8.0 — 11.0m	6.0 — 8.0m	4.5 — 6.0m
Motion Control	3 axes (diurnal, latitude, azimuth)	3 axes (diurnal, latitude, azimuth)	2 axes (diurnal, latitude)
Sun Projector	○	○	×
Auto Calibration for Digital Synchronization	○	×	×
Console	Windows PC-GUI		

Takayuki Ohira – Time Line

- 1970

Born in Kawasaki City, Kanagawa Prefecture.
- 1980

Age 10

Developed a desk-top pinhole planetarium.
- 1991

Age 21

Created an optical lens projection planetarium, ASTROLINER, a first-time achievement for an amateur.
- 1998

Age 28

ASTROLINER 2 (currently called MEGASTAR I) debuted at the IPS Conference in London, projecting over one million stars. This number was several hundred times greater than any existing star projectors.
- 2000

Age 30

ASTROLINER was unveiled to the public at the Spiral building in Omotesando, Tokyo.
- 2003

Age 33

First-time projection of MEGASTAR II at the former Goto Planetarium, on the 8th floor of the Tokyu Bunka Kaikan in Shibuya, Tokyo.
- 2004

Age 34

MEGASTAR II was installed at the Kawasaki Municipal Science Museum for Youth and the Miraikan (National Museum of Emerging Science and Innovation). The third MEGASTAR II ("cosmos") was designated by the Guinness Book of World Records as the "world's most advanced planetarium projector".
- 2005

Age 35

Established Ohira Tech Ltd
- 2006

Age 36

MEGASTAR II was honored with selection for the "100 Items in the Japanesque Modern Collection".

In addition to holding various mobile planetarium shows across Japan, Takayuki Ohira has collaborated with various artists such as Matsutoya Yumi, Kiroro, BUMP OF CHICKEN, Nanamusic, SINSKE and others.

He collaboratively developed HOMESTAR (with Sega Toys) and MYSTAR (with Gakken).

Appearances include Nescafe Gold Blend commercials on TV as "A man who can taste the difference."

His biographical book, I Made a Planetarium (published by X Knowledge), was made into a TV drama by Fuji Television.

Finally, he is recipient of various coveted awards: Nihon University Best Award, Kawasaki Azalea Kagayaki Award, Japan Innovator Grand Prix (Nikkei BP), and the BVLGARI Brilliant Dreams Award 2006, while being officially commended by the Minister of Education, Culture, Sports, Science and Technology Award.

Corporate Data

Company Name	Yugengaisha OhiraGiken		
Company Name in English	Ohira Tech Ltd.		
President	Takayuki Ohira		
Head Office	1st Fl. Prestige Bldg., 1-28-38 Mita, Tama-ku, Kawasaki City, Kanagawa Prefecture Postal Code: 214-0034 TEL: +81-44-931-5610 FAX: +81-44-931-5612		
Date of Incorporation	March 2005		
Founding Capital	¥3,000,000-(as of March 2008)	Designer Takayuki Ohira	
Staff	4 employees (as of March 2008)		
Mission	To design, construct and sell planetarium projectors. To organize and execute traveling planetariums, collaborate and produce events, program and other occasions.		
Membership	International Planetarium Society (IPS) Japan Planetarium Association (JPA)		
Main Clients	JAXA(Japan Aerospace Exploration Agency) SEGATOYS GAKKEN CO.,LTD. HoriPro Inc.		TOKYO LABORATORY LTD. Sony PCL Inc. Sony Techno Create Corporation
Website URL	http://www.megastar.jp/en/		



Designer Takayuki Ohira



 **MEGASTAR** the latest in the series, unveiled!

MEGASTAR-ZERO

The Super Planetarium MEGASTAR was first introduced at the International Planetarium Society's London Conference in 1998. It projected over one million fixed stars. The Milky Way, for example, came alive as a brilliant cluster of innumerable precision pinpoints, rather than a hazy band of light against the dark sky that the viewers used to see before. The awe, excitement, and breathtaking surprises of this first MEGASTAR are happening again.

MEGASTAR-ZERO, the latest model in the series, has achieved "super miniaturization" and portability never before possible. The ZERO weighs only 11 kilograms, and yet, all the awe-inspiring functionality of the earlier models is retained. Only the size of a basketball, this amazingly small, portable, precision planetarium projector allows you to view over two-million fixed stars that form galaxies and constellations, most of which are otherwise invisible. The depth of our universe unfolds in real life 3D images before your eyes. MEGASTAR-ZERO uses an ultra-bright LED as its light source, a feat accomplished for the first time in the planetarium industry. As a result, planetarium operators hardly need to change the lamp. High-precision, small and portable and yet maintenance free, the ZERO is just as amazing as the starry skies it projects.

MEGASTAR-ZERO is for every dreamy-eyed stargazer. While offering unlimited potential in education in astronomy, star-studded skies created by the ZERO are also a source of wonderment and sheer entertainment. Witness the never seen and invisible skies with the ZERO.



CONTACT

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Suggested Venues

Science museums, planetariums and ordinary theaters :

MEGASTAR-ZERO projects best in a planetarium dome of up to 11 meters in diameter. The ultra-realistic and yet surrealistic starry skies recreated by the ZERO meet the expectations of every child and grownup: to bask in the sheer brilliance of millions of stars and mix with the star dust we came from.

Based on the newly-developed Auto Geometric System*1, the MEGASTAR-ZERO can synchronize with any digital planetarium system, thus providing an unlimited source of collaborative entertainment.

*1: Auto Geometric System: A system for the automatic synchronization of the MEGASTAR's starry skies with digital planetarium systems by the use of a built-in calibrator.



Commercial venues, museums and art galleries :

MEGASTAR-ZERO is a dream machine. It delivers the beauty of the stars and galaxies to any place, whether it be a shopping mall, restaurant, banquet hall, or art gallery. The ambience of starry skies makes for a relaxing atmosphere. Stars add immeasurable charm to any venue or occasion.



As a portable planetarium :

We deliver the skies to you! One of MEGASTAR-ZERO's key features is its amazing small size and mobility. Deliver star-studded skies by caravan fitted with the ZERO and a portable, inflatable dome. Reproduce the wonders of millions of celestial bodies, literally, anytime, anywhere. View skies far more beautiful than provided by traditional pinhole planetariums and far more exciting than the observable real skies obscured by light pollution.



Special Features

1 MEGASTAR-ZERO is small, light-weight, and compact.

MEGASTAR-ZERO's star ball is only 27 cm (10.6 inches) in diameter, about the size of a basketball, and it weighs only 11 kilograms. It's very portable, and you can take it by yourself to any dome, theater, and even commercial venues, to recreate the wonders of the universe. It's a revolutionary innovation in star optics. The impossible is now possible!

2 MEGASTAR-ZERO creates super-real starry skies.

MEGASTAR-ZERO uses a newly-developed cross-optical projector capable of showing a staggering 2.2 million stars, enabling you to view even the faint stars of magnitude 11. Earth's Milky Way, for example, only one of the billions of galaxies in the universe, is represented as it really is a cluster of millions of individual stars, not simply a soft band of light. It also projects more than 10 Messier Objects.

3 There is no need to change the lamp.

MEGASTAR-ZERO uses an ultra-bright LED as its light source, a feat achieved for the first time in the planetarium industry. It has amazingly long service life of 50 thousand hours.

4 It's also ultra quiet - fit for the universe filling the calm night skies.

The awe-inspiring sensations of our universe, otherwise spoiled by the constant mechanical fans of ordinary projectors, are left undisturbed by the MEGASTAR-ZERO. Using a conduction cooling device for L and M types in place of a cooling fan, the MEGASTAR-ZERO allows you to sit back, bask in the projected star light, and savor the recreation of the unfathomable night skies.

5 Only 60 seconds set-up.

MEGASTAR-ZERO is a very portable that takes about only 60 seconds to set-up easily as a traditional pinhole planetarium and yet projects sublime starfield.

NEW MEGASTAR-II SERIES COMING ATTRACTION!

"MEGASTAR-II" is registered in the Guinness Book of World Records as the "World's most advanced planetarium projector". And now its latest upgrade, the New MEGASTAR-II, is available for sale, as the series was previously available only for lease or rental. The "NEW MEGASTAR-II" series best projects in medium-size to large domes, with the dome size of 10 to 25 meters in diameter. Equipped with the Auto Geometric System that automatically synchronizes the star projector with digital planetariums, the NEW MEGASTAR-II allows you to combine star-studded skies with various features of a digital system. Witness record-breaking history in star projection and digital planetarium technology! From science to entertainment, our coming attraction NEW MEGASTAR-II will give you ultimate enjoyment of the night sky!



MEGASTAR-II Phoenix



MEGASTAR-II Titan



MEGASTAR-II Cosmos