

CUBEX

PORTABLE PLANETARIUM

Model A20



Let us show how you can improve your astronomy teaching capabilities with a CUBEX Planetarium. This marvelous and affordable portable planetarium can be installed in minutes and bring you and your audience the wonders of the night sky.

Although a technically advanced instrument, the CUBEX portable planetarium is remarkably simple to operate. It features a high quality stellar projection system that is capable of projecting a total of 2000 stars down to Mag 5.0. onto its inflatable dome.

This remarkably versatile system also works with cylinders from other manufacturers to expand your CUBEX system with equipment you may already have.



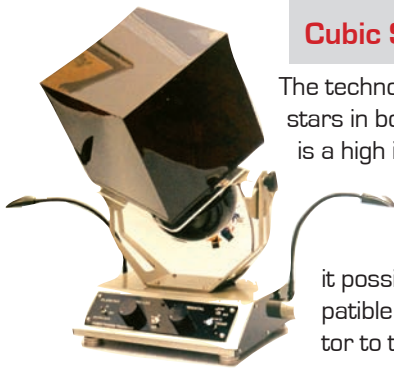
Highlights of the CUBEX portable planetarium:

- 5, 6, or 7 meter inflatable dome
- High quality star projector which includes:
 - Compact, solid construction
 - Smooth, quiet sidereal motion rotation
 - 2000 high definition stars (down to Mag 5.0)
 - Visible planets, Moon with phases and Sun projection
 - Rotation motor toggle switch for use with northern and southern hemisphere projection
- Hand-held constellation outlines slide projector with dimmer switch
- Sturdy, aluminum frame, foam-padded carrying case with wheels
- High quality 3 speed electric dome blower
- Projector and Dome Operation manuals and CUBEX Teacher's Guide & Activity Sampler. An easy to use 100 page lesson planner.

Projector

The CUBEX star projector has unique characteristics. It is a star projector that projects more than two thousand stars down to, and including, magnitude 5.0. It includes an independent projector that shows the Sun, the Moon, and the five naked eye planets: from Mercury to Saturn.

A motor smoothly recreates movement of the Earth's diurnal motion allowing it to simulate the rotation of the celestial sphere. Its speed, from 0.5 to 2 rotations per minute, can be regulated by the operator. Also the direction of rotation can be reversed to show the rotation of the celestial sphere in either hemisphere. This feature, combined with the CUBEX star projector's capacity to project the celestial sphere from any latitude of 0 to 90 degrees (Equator to the poles), allows the Cubex to represent the sky and its movements as it would be seen from any point on the surface of the Earth.



Cubic Star Projector

The technological heart of the Cubex is its projection cube, on whose six faces all the stars in both hemispheres are accurately and sharply placed. In the interior of the cube is a high intensity halogen lamp that emits sufficient light to generate crisp and brilliant star images. The brightness of the stars is fully adjustable. The projector also includes 2 fully adjustable side lamps for reading and drawing ease inside the dome. The dimmable lighting can be used during a presentation to make it possible for your audience to read or take notes. The CUBEX projector is fully compatible with cylinders of other manufacturers, allowing you to use your CUBEX projector to teach other sciences such as geography, biology, meteorology, geology, etc.

The Control Panel

The captions on the ergonomic control console is custom made according to the language of the customer. A red LED lights when the projector is turned on.

Hand held Constellation Outlines Projector



The CUBEX projector comes with a hand-held constellation projector. It is similar to a flashlight that uses special slides with 12 figures: Orion, Lepus, Taurus, Canis Major, Gemini, Scorpius, Cygnus, Crux, Leo, Hercules, Ursa Major, and Ursa Minor.

The images are projected on the star field by the hand projector with its power source on the control panel. Eight additional constellations may be purchased: Sagittarius, Libra, Cassiopeia, Cancer, Draco, Corona Australis, Cepheus, and Canis Minor. A hand held projector gives the operator the flexibility of being able to move the image around and to "animate" the mythological figure on the dome.



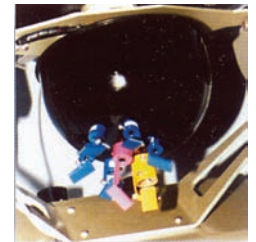
Independent Planet, Sun, and Moon Projector

A series of secondary projectors is located underneath the star projector. These projectors can show the five visible (naked eye) planets: Mercury, Venus, Mars, Jupiter, and Saturn. In addition, it can project the Sun and the Moon with all its phases.

These projectors are separate from the star projector, which means that the user can show the stars with or without the planets.

The planet projectors are synchronized with the star projector to enable the planets to move along with diurnal rotation.

Having an independent planet projector frees the stars cube from having to physically support extra components. This design permits the star projector to do its job of projecting all the stars in the celestial sphere without any obstruction from cumbersome add-ons.



MMI Domes

The dome is an inflatable dome measuring 5, 6 or 7 meters in diameter. It is inflated by a three-speed fan that continuously blows air into its interior. The dome fabric is a blackout type with fire retardant treatment. Its complete opacity ensures optimum darkness and thus the best sky possible, regardless of the lighting outside the dome. Entrance to the dome is quick, comfortable and safe. The two meter high entrance is easily opened and closed with a double-sided, easy to grasp zipper. Since the dome does not have a floor, emergency evacuation is instantaneously and safely achieved by simply lifting the dome over the audience's heads and to one side, exposing the interior in seconds.

The dome is very lightweight at only 22 Kg. (50 lbs) for the 5 meter size, it can be transported by one person. Once folded, the dome fits neatly in the provided carry bag. The exterior color of the dome is blue. As an extra option, we can print the name and logo of your organization in two places on the outside of the dome. Please inquire for details and price.



Heavy Duty Carrying Cases

The CUBEX star projector with included accessories comes in a sturdy, protective travel case. The aluminum reinforced case has two wheels incorporated at its base for easy transportation by one person. The carrying case also serves as a platform on which to support the projector once inside the dome. Additionally, it can be used by the operator to place any accessories needed during the presentation.



MMI CORPORATION

2950 Wyman Parkway
PO Box 19907
Baltimore, MD 21211 USA

Email: mail@mmicorporation.com

www.mmicorporation.com

Phone: 410-366-1222

Fax: 410-366-6311

CUBEX

Your Best Choice in Portables