Science On a Sphere® Geometry

For a 48” (1.22m) Sphere

Floor mounted projector.
The rigid projector structure is isolated from viewers by a "kick," or protective, wall. Requires a stable floor, such as a concrete slab.

Ceiling mounted projector.
Requires a stable ceiling, such as a slab. Temperature stability is also important. Can be an obstacle for very tall people.

Three thin suspension wires (black)

Projector Mounts
For both floor and ceiling mounted systems are movable in pitch, yaw, and height.

Elevation Scale
0 1 2 3 4 10

10’ (3 m) Min
6’10”
4’ (1.22 m)
6’ (1.83 m)
3’ (0.91 m)

9 to 11’
(2.74 to 3.35 m)
recommended

P1 --- Projectors numbered counterclockwise --- P2

NOTE: 11’ - 14’ (3.4 to 4.3 m) throw distance - projector lens dependent

9’ (2.74 m) minimum ceiling height.

18 to 21 feet (~5.5 to 6.4 m) square (depending on the projector throw distance)

Computers at a typical installation: One primary computer and one "hot" back-up.
The computers can be located as much as 200’ (~60 m) from the sphere without additional video cable boosters. The computers must be in a clean, well ventilated area.

Science on a Sphere® in Planet Theater®, Boulder, Colorado