

Fulldome Immersive

## SPACE LIBRARY

V O L U M E O N E

Welcome to Volume I of Spitz's immersive Space Library. This DVD contains low-resolution previews of 55 custom-produced astronomy animations for use with your panoramic or fulldome video system, three fulldome video trailers and a brief overview of Spitz, Inc.

Our Space Library currently includes solar system objects, stars, galaxies, nebulae and a variety of other celestial phenomena. These animations are ideal for adding visual interest to your automated sky shows, or as visual support for your live "Sky Tonight" presentations. License the entire library, or pick the clips that are right for your needs.

Spitz Creative Media's immersive video shows are among the most innovative in the industry. With a strong story basis appealing to children and adults alike, they are a delightful blend of science, art and entertainment. Check out the trailers for *Oasis In Space*, *Legends of the Night Sky: Orion*, and *DarkStar Adventure*.

All Spitz immersive video content is mastered at high-resolution in the industry-standard "dome master" format, and is fully-compatible with our complete line of immersive video systems including ElectricSky®, ElectricSky®II and SciDome™, and with all competing fulldome video systems.

To learn more, just follow the links.  
Enjoy your tour of our universe!

Clip #	Title	Description	Length (sec)	Length (frames)
<b>DEEP SPACE OBJECTS</b>				
1	Gaseous nebula	Camera flies through a gaseous nebula	20	600
<b>GALAXIES</b>				
7	Galaxy collision	Two spiral galaxies are set on a collision course. After the collision, the central regions relatively quickly fall together and merge. Courtesy Space Telescope Science Institute	42	1256
12	Spiral galaxy	Rotating spiral galaxy zooms into view, then out	40	1200
13	Barred spiral galaxy	Barred spiral galaxy zooms into view, rotates, zooms out	40	1200
15	Irregular galaxy	Irregular galaxy zooms into view, rotates, zooms out	40	1200
16	Galaxy fly-through	A spiral galaxy rotates in space; we fly into the dust lanes along the galaxy's arm	43	1300
63	Cosmic web	This visualization is a flight through the 'cosmic web', the large scale structure of the universe. Courtesy Space Telescope Science Institute.	71	2140
14	Elliptical galaxy	Elliptical galaxy zooms into view, rotates, zooms out	40	1200

All animations mastered at 3600 x 3600 pixel resolution, dome master format.

Compatible with panoramic or fulldome video display systems.

Produced by **Spitz Creative Media**

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Clip #	Title	Description	Length (sec)	Length (frames)
<b>VIEWS FROM EARTH</b>				
17	Equinox sun path	The sun rises over an ocean, traverses the sky and sets on the day of the vernal equinox	33	1000
18	Winter solstice sun path	The sun rises over an ocean, traverses the sky and sets on the day of the winter solstice	33	1000
19	Summer solstice sun path	The sun rises over an ocean, traverses the sky and sets on the day of the summer solstice	33	1000
20	Sunrise with clouds, blue sky	The sun rises over an ocean, cloud cover disperses as sun approaches zenith	33	1000
21	Sunset with clouds, blue sky	The sun sets over an ocean, cloud cover thickens as sun approaches horizon	33	1000
22	Solar eclipse seen over ocean	Sun is eclipsed by the moon, Bailey's beads and corona visible for a bit, sky darkens, faint stars appear, sun reemerges	43	1300
23	Total lunar eclipse	Moon seen against black background. Earth's umbra passes across moon causing eclipse.	33	1000
24	Total lunar eclipse seen over illuminated city skyline	Moon seen above illuminated city skyline. Earth's umbra passes across moon causing eclipse.	37	1100
28	Aurora Borealis #1	Aurora borealis as seen on winter night in Yukon Territory, Canada.	20	600
29	Aurora Borealis #3	Aurora borealis as seen on winter night in Yukon Territory, Canada.	15	454
30	Aurora Borealis #6	Aurora borealis as seen on winter night in Yukon Territory, Canada.	20	600
<b>EARTH-MOON SYSTEM</b>				
23	Total lunar eclipse	Moon seen against black background. Earth's umbra passes across moon causing eclipse.	33	1000
27	Rotating moon	Moon as seen from space, rotating on its axis	40	1200
37	Earth approach	Earth zooms into view, rotates, zooms out	40	1200
38	Moon orbits earth	Moon orbits earth as seen from oblique perspective, earth spins on its axis	40	1200
<b>SOLAR SYSTEM [Planets]</b>				
35	Mercury approach	Mercury zooms into view, rotates, zooms out	40	1200
36	Venus approach	Venus zooms into view, rotates, zooms out	40	1200
39	Mars with moons	Mars, Phobos, Deimos zoom into view. Phobos, Deimos orbit once, then everything zooms out	40	1200
41	Gas giant planet	Jupiter-like gas giant planet zooms into view, rotates, zooms out	40	1200
42	Jupiter with moons	Jupiter and Galilean moons zoom into view, red spot appears, everything zooms out	40	1200
43	Jupiter, no moons	Jupiter zooms into view, rotates, zooms out	40	1200
44	Saturn approach, close-up view	Saturn zooms into view, extreme close up view of rings, zooms out	45	1350
45	Saturn with orbiting moons	Saturn and major moons zoom into view, Saturn rotates, everything zooms out	40	1200

Clip #	Title	Description	Length (sec)	Length (frames)
46	Uranus approach with moons, rings	Uranus and major moons zoom into view, Uranus rotates, everything zooms out	40	1200
47	Neptune approach with moons, rings	Neptune and major moons zoom into view, Neptune rotates, everything zooms out	40	1200
48	Pluto/Charon system	Charon orbits Pluto as seen in space; Pluto rotates on its axis	40	1200
49	Orrery - outer solar system	Orrery simulation of outer solar system; planets shown with illustrated orbits	50	1500
<b>SOLAR SYSTEM [Moons]</b>				
51	Deimos approach	Deimos zooms into view, rotates, zooms out	40	1200
53	Io approach	Io zooms into view, rotates, zooms out	40	1200
54	Io approach with volcanoes	Io with erupting geysers zooms into view, rotates, zooms out	40	1200
55	Ganymede approach	Phobos zooms into view, rotates, zooms out	40	1200
56	Callisto approach	Callisto zooms into view, rotates, zooms out	40	1200
57	Titan approach	Titan zooms into view, rotates, zooms out	40	1200
58	Miranda approach	Miranda zooms into view, rotates, zooms out	40	1200
59	Triton approach	Triton zooms into view, rotates, zooms out	40	1200
60	Charon approach	Charon zooms into view, rotates, zooms out	40	1200
<b>SOLAR SYSTEM [Asteroids/Comets]</b>				
11	Solar System [Asteroids/Comets]	Comet seen in space orbiting sun from oblique perspective; tail grows as comet approaches sun	40	1200
40	Orbiting comet	Flight through the asteroid belt	36	1079
<b>SOLAR SYSTEM [Space Exploration]</b>				
61	Mariner approaches Venus	Mariner spacecraft approaches Venus, flies around night side, and off towards Mercury seen in distance	40	1200
62	Voyager approaches Jupiter	Voyager spacecraft approaches Jupiter, flies overhead, then heads off toward Saturn, seen in distance	40	1200
<b>STELLAR OBJECTS</b>				
3	Simple binary star system	Two stars orbit each other around common barycenter	40	1200
4	Red dwarf star	Red dwarf star zooms into view, rotates, zooms out	40	1200
5	Yellow star	Yellow star zooms into view, rotates, zooms out	40	1200
6	Blue star	Blue star zooms into view, rotates, zooms out	40	1200
8	Globular cluster evolution	A movie showing approximately a quarter of a million years in the life of a dense star cluster. Courtesy Space Telescope Science Institute	68	2042
9	Pulsar	A pulsar is seen in space in an edge-on view so that the pulsar blinks on and off like a lighthouse	40	1200
10	Orion fly-around	We first see the constellation Orion from Earth. We fly around Orion and the pattern changes. Familiar pattern reappears as we land on Earth	40	1200