



Technical Specifications

Since 2015, the Cernan Earth and Space Center at Triton College has undergone significant upgrades in both video projection and sound reproduction. We continue to look for new opportunities to improve both our equipment and the programming we offer visitors.

Systems	Equipment
Projector System	A JVC DLA VS4010R 4K digital video projector, projecting 2400 x 2400 pixels on the dome, was installed in 2025, replacing the original JVC SH4 that was installed in 2015. The special fisheye lens used to spread images across the entire surface of our 44 foot (13.4 meter) diameter dome was manufactured by Konica-Minolta Planetarium of Japan. This combination provides an immersive visual experience of full color imagery, animation, and the starry sky.
Sound System	<p>Speakers</p> <p>4 - JBL AM7215/26 120x60 15" 2 way loudspeaker for L, R, Ls, Rs</p> <p>2 - JBL AM5212/66 60x60 12" 2 way loudspeaker for C</p> <p>1 - JBL 4642A Dual 18" Subwoofer</p> <p>Amplifiers</p> <p>1 - QSC PLD 4.2 amp</p> <p>1 - QSC PLD 4.5 amp</p> <p>1 - Crown DCI 2 1250 Amp</p> <p>Other</p> <p>1 - BSS Soundweb London BLU-100 audio processor</p> <p>1 - Denon DN-410X 12 channel mixer</p> <p>1 - Sennheiser ewD1 wireless mic kit</p> <p>1 - Shure SLXD Dual Wireless Receiver, G58 band</p>
Seating	93 BG250 Planetarium chairs by Seating Concepts are arranged in a unidirectional configuration, tiered 20 degrees.
Cove Lighting	LED strip lighting around the bottom edge of the dome for general illumination, computer controlled using QLC+ software
Projection Dome	44-foot / 13.4 meters in diameter dome subtending 165 degrees from center of curvature, tilted 25 degrees. The projection surface of the vinyl-clad aluminum dome is 23 percent void for acoustic performance and painted 36 percent reflective to minimize cross bounce. The dome is suspended from the roof, has unbeveled lap seams, and was custom manufactured by Northern Illinois Engineering of Schaumburg, Illinois (If you know someone who was with this firm, we are looking for architectural drawings for the dome itself).
Laser Projector	Voyager V-17OWC Laser Display System, custom manufactured by Aura Technologies Inc. of Chicago, IL, utilizing a Color Pro 3.0 watt "white light" argon-krypton ion laser from Lexel
Inset Video Projector	Epson Pro G 6800
Building	10,800 square feet, including dome theater, exhibit hall/lobby, gift shop, four offices, four classrooms, storage, circulation and mechanical space. Cost: \$1.1 million. Opened: June 23, 1984.