

WOLFVISION® *Application in Education*

San Diego State University
California, USA
www.sdsu.edu



WolfVision's high end Ceiling Visualizers are ideal for high ceiling rooms, displaying large 3D objects and allowing all students to have better viewing angles wherever they sit (see above).

One of the instructional goals of San Diego State University is to encourage and nurture innovative teaching methods that incorporate active learning into teaching. SDSU first started using WolfVision's Portable Visualizer series in 2001 and now have more than 100 devices in use in their learning spaces. They have also recently added two of WolfVision's high end Ceiling Series Visualizers. Following the positive responses received from faculty, SDSU has added 50 more ceiling mounted WolfVision Progressive Scan cameras.

People are using the Visualizers as they would a whiteboard to draw diagrams and to visually present theoretical concepts and statistical data, thereby enhancing the quality of the teaching/learning experience. Instructors are also using Visualizers to display 3-dimensional teaching objects along with traditional transparencies and documents.

As to the question of why Visualizers are so well accepted and frequently utilized by faculty, Dr. James Frazee, Director of Instructional Technology Services at San Diego State University says, "...using a Visualizer has made a huge difference, especially in large classroom spaces and lecture halls where the students who happen to sit in the rear or the side of rooms have a sideline perspective. The Visualizer gives them better viewing angles of what the instructor is writing. They also have an unobstructed view of the blackboard or whiteboard in the front of the room, and materials are displayed much larger on the screen so that students can see them much better. The instructors also display materials in a variety of new ways which they wouldn't have normally done without the Visualizer's additional capabilities. I think it has made a big difference in terms of the teaching and learning process."

Ceiling Visualizer Series



Sleek presentation room equipped with state of the art technology. Close up of the high end Ceiling Visualizer (top left) installed discreetly out of view. White box shows the actual Visualizer mounted above the lectern.

The high end Ceiling Visualizer is well suited for auditorium ceilings and sleek presentation rooms. One of the device's advantages is the WolfVision highpatented synchronized lightfield that allows quick and easy object display by means of a light projected working area that doesn't add any disturbing light or reflections. This Visualizer has perfect illumination of any objects without unwanted shadows and has an exceptional depth of focus.

The 50+ recently added Progressive Scan Cameras are also mounted in the ceiling with a Tile Bridge; they record images from above like the high end Ceiling Visualizers. This keeps the work surface free and allows large teaching materials to be displayed. The device also provides unobstructed views between the lecturer and the students because it is discretely installed in the ceiling. Since the Progressive Scan Cameras don't come equipped with lighting, SDSU has installed halogen spotlights that work very well.



WolfVision's patented synchronized lightfield is used for quick and easy object display by means of a light projected working area that doesn't have any disturbing reflections.

James Frazee says "The lecturers took to the ceiling mounted versions right away. In all cases we hear comments on how happy they are with the additional capabilities. The ceiling mounted cameras are very easy to handle and lecturers can use them by simply pressing one button. All the professors have to do is slide out the dry-erase surface they use to draw on, or just put their teaching materials directly onto the table and start the lesson. The working surface is situated a bit higher than the podium drawer which makes it easier to use from an ergonomic standpoint ..."

The Ceiling Series also has the added benefit of allowing more direct eye contact between faculty and students "...Teachers like the fact that they don't have to turn their backs on their students. This makes it easier for the students to hear them and to receive the non-verbal portion of the teacher's presentations. The faculty are really thrilled with the WolfVision systems that we have in place."

The lower priced Progressive Scan Cameras are a good alternative for environments with lower ceilings and permanent presentation areas. They free up more teaching space and can be fixed securely on ceilings, thus lessening the likelihood of damage or abuse of the cameras.



What deciding factors caused Instructional Technology Services to choose WolfVision Visualizers over similar products made by other manufacturers? One reason is that WolfVision always has the right solution for the customer's presentation needs: Ceiling, Professional or Portable Visualizer: each solves a specific presentation need.

The other factor according to James Frazee is: "WolfVision's exceptional customer service. WolfVision truly offers a superior product. It boils down to the quality of its presentation solutions and its workmanship. No other product even comes close. We are especially pleased with services such as WolfVision's free downloadable firmware updates which keep the Visualizers current and the technology well integrated in this rapidly evolving field.

We have developed a strong partnership with WolfVision over the years and have been really happy with WolfVision's rapid response to our needs. WolfVision has gone above and beyond the call of duty..."



Dr. James Frazee giving live demonstration of the Progressive Scan Camera. Smaller photo shows camera installed above lectern using the Tile Bridge. Actual ceiling camera shown in red box.