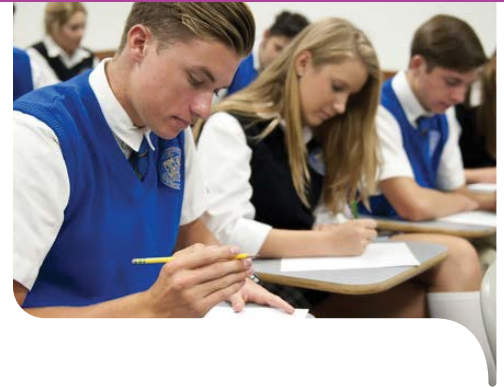


# Santa Margarita Catholic High School Untethers Classrooms with ScreenBeam



Santa Margarita Catholic High School is a college-preparatory school nestled against the Saddleback Mountains in Orange County, California. The school prides itself in offering a variety of academic programs allowing all types of learners the opportunity to succeed, including an Auxiliary Studies Program, the academically-rigorous IB track, and an Interdisciplinary Program. It has been named a Microsoft Showcase School for its dedication to creating a whole-school innovative learning environment enabled by technology.

After rolling out a one-to-one device initiative, Santa Margarita deployed forty ScreenBeam wireless display receivers to give teachers maximum mobility with their new tablets. With wireless display technology, teachers can now control the classroom projector and share content from their tablets from anywhere in the classroom. This new mobility empowers teachers to better engage the class and accommodate the different needs of each student.

## Challenge: How to Bring Cutting Edge Technology to the Classroom

As part of a one-to-one teacher and student device initiative, the high school rolled out Lenovo Helix tablets to the teachers and Lenovo Thinkpad Yoga tablets to all 1750+ students. Students pay a technology fee to lease their device and all associated software when they enter high school and keep it for all four years, at which time they are eligible for a minimal buyout of the tablet if they choose to keep it rather than turn it back in to the school.

Before the tablet deployment, teachers used a desktop computer on their desk located in the corner of the room. This meant that teachers were tethered to their desks if they wanted to use multimedia content, like presentations or video, in their class. Being fixed in one location, it's hard to hold the attention of the class or provide individual attention when needed.



### School

Santa Margarita Catholic High School

### Population

About 1,750 students and 110 faculty

### Number of Classrooms: 85

### Installed

40 ScreenBeam receivers in classrooms and conference rooms

### Teacher Devices

Lenovo Helix

### Classroom Devices

Lenovo Thinkpad Yoga

**"There are a lot of things I like about ScreenBeam, but if I had to pick one, it would be mobility. This generation of students have short attention spans, so teachers can't lecture in front of the classroom all day."**

— Scott Bricker, Director of Education Technology / Math Teacher  
Santa Margarita Catholic High School

The tablets brought a new level of mobility to the classroom, but the challenge of connecting to the classroom projector remained. Since the tablets weren't connected to the projector, teachers still needed to return to their desk whenever they wanted to show a slide, lecture notes, or any other content via the projector.

"Using a desktop to connect to the projector just wasn't interactive enough. The technology wasn't to the level that we wanted yet," Bricker stated.

As such, the school began to look for a wireless display solution that would enable teachers to control the projector from their tablets from anywhere in the classroom.

## Wireless Display with ScreenBeam

Santa Margarita heard about wireless display and Actiontec's ScreenBeam through Microsoft. ScreenBeam is recommended by Microsoft as a premier wireless display receiver for Windows 8.1 and Windows 10 devices. Actiontec and Microsoft have been working closely to deliver the best possible wireless display and second screen experience for Windows devices.

Santa Margarita's IT department began an evaluation of ScreenBeam, as well as other wireless display solutions. In addition to appreciating ScreenBeam's performance and ease of use, the team concluded that ScreenBeam was the best fit for two key reasons:

- **Remote Manageability:** ScreenBeam is CMS-ready. The ScreenBeam Central Management System provides the ability to remotely manage and troubleshoot all devices from a central location. It gives Santa Margarita more than just the ability to manage firmware updates and remote troubleshooting; it allows the IT team to set device policies, process receivers in groups, set custom background images, and more, all from a central location, ultimately saving both time and money.
- **Added Security:** ScreenBeam's local management features allow teachers to maintain control of the device, so students can't take over the receiver to display unauthorized content.

"Altogether, we found that ScreenBeam was the best product from top to bottom," remarked Bricker.

## Wireless Display Brings New Teaching Opportunities

Wireless display technology brings a new level of interactivity to today's classrooms. The ScreenBeam receiver connects to the classroom projector and creates a direct wireless connection to the mobile device using the Miracast wireless display standard. Once the connection is made, everything (from apps to videos to websites) is duplicated on the big screen. This means that anything a teacher can do on a tablet, they can now show the whole class.

**"We launched the one-to-one initiative since we wanted to be on the forefront of technology. Once teachers had their tablets, we wanted them to take full advantage of mobility and interact with students around the classroom."**

— Scott Bricker, Director of Education Technology / Math Teacher  
Santa Margarita Catholic High School

**"With ScreenBeam, I can stand right next to a student and put my notes into OneNote and project it. I can make sure my kids are on task, asking questions, and answering questions. This new level of mobility creates a different classroom environment than we've ever had. It's changing the way we deliver and execute our lesson plans."**

— Scott Bricker, Director of Education Technology / Math Teacher  
Santa Margarita Catholic High School

With wireless display, teachers are free to move around the classroom and interact with their students, while simultaneously sharing content to the classroom projector with the swipe of a finger. This interactive learning environment increases classroom participation, enabling teachers to work more closely with students.

“There are a lot of things I like about ScreenBeam, but if I had to pick one, it would be mobility. This generation of students have short attention spans, so teachers can’t lecture in front of the classroom all day,” said Bricker.

## Training the Teachers

Whenever new technology is introduced into a school, there’s always an important human element involved. Getting teacher buy-in is critical for success. As a math teacher, Bricker understands the nuances of how to train teachers to be successful with new technology.

“Miracast is a simple technology and ScreenBeam is easy to use. So once you get a teacher to understand ScreenBeam and how to connect to it, that’s all the training they really need. The key is to get them to see how it works and all the possibilities for their classroom,” said Bricker.

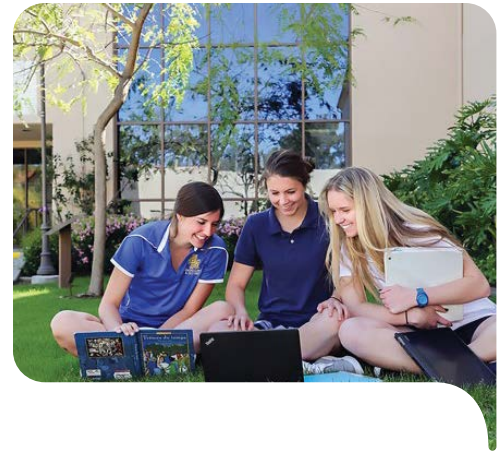
Bricker’s newly formed Department of Education Technology is responsible for training teachers and helping them implement the technology in the classroom. There are two to three teacher workdays where part of the focus is to get familiar with the new technology. Bricker holds various training sessions throughout the year, in faculty meetings, department meetings, and TechTalk programs.

## Santa Margarita’s Future Roadmap

According to Bricker, some teachers use ScreenBeam every day in their classroom, while others are using it on an occasional basis. It’s primarily used as a teacher device right now. For example math teachers will write out and work on a math problem on their tablet and project this to show students the process of solving the problem.

The school plans to install ScreenBeam across the entire campus in classrooms, conference rooms and offices. The whole school plans to move to Windows 10.

“We anticipate that a good majority of our teachers will be using ScreenBeam on a regular basis next year. And our use of wireless display will evolve as well, as we’ll discover new opportunities to design lessons that are more student-centered and engaging,” said Bricker.



## Industry Leader

ScreenBeam wireless display is the only solution that truly enables commercial deployment of secured and IT manageable wireless display. ScreenBeam wireless display is the industry standard for benchmarking and device interoperability, making it the most broadly compatible solution available. ScreenBeam solutions are used as the validation platform for wireless display functionality by companies like Microsoft, Intel, and leading PC OEM and device companies.

Actiontec is Microsoft’s co-engineering partner for wireless display technologies in Windows. Because of Actiontec’s status as the industry leader, and our ongoing investment in supporting industry device manufacturers, you can be assured that you’re deploying the most broadly compatible, feature-rich wireless display platform.



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