

Case Study

AVerVision SPC300 Encourages Effective Synchronous Learning of Design Skills



"It's remarkable! AVerMedia's visualizer is able to provide real-time recording and instantaneously show my drawing process to the whole class. My students reaped the most benefits from it!"

-Professor Jung-Sheng Chen, an assistant professor in the product design department at Tainan University of Technology.

Located in Yongkang City, Tainan County, Taiwan, Tainan University of Technology places significant emphasis on inculcating students ethics and cultural refinement through its humanity and social science courses. Not only does its Department of Product Design play a major role in cultivating innovative professional commodity designers, it has also been actively involved in industry-academic cooperation. In fact, the adhesive tape dispenser that Professor Jung-Sheng Chen, Assistant Professor from Department of Product Design at Tainan University of Technology, helped develop with a manufacturer had won the world-renowned iF Product Design Award. Tainan University of Technology was also ranked the world's top 41 in iF's cumulative award ranking list this year.

Professor Chen is passionate towards his students, just as much as he is towards designing. Previously, to help his students understand the design principles better, he would use a video camera to record the lessons so that the students can review them after school by taking a closer look at the professor's work. However, such methodology required video post-production and the result is unsatisfactory. Ever since Professor Chen introduced AVerMedia's AVerVision SPC300 into his classroom two years ago, it has immediately received an unprecedented amount of compliments from students. In no time, AVerVision SPC300 has become an indispensable teaching tool in the commodity product designing department.

Perfect for Real-time Demonstration for Large Classes

Professor Chen teaches elementary design classes that stress on hand drawing and composition skills as part of the core curriculum. For a major part of the class, students are trained to examine product's appearance, and come up with creative ideas for product designs. Before AVerVision SPC300 was introduced to the class, Professor Chen had to divide as many as 60 students into groups so that each student got to observe his on-site demonstration of design techniques clearly. Typically, he had to repeat the same procedures up to four times for his students. He used to adopt the video recording approach by allowing students to watch the recorded lessons

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after school. The drawback, however, is that the students were not able to make full use of their time for in class practices. Although he also tried to give on-stage demonstrations, the result was disappointing since the students sitting in the rear of the room could hardly understand the lesson at all.

Luckily, the aforementioned problems with teaching in large classes have been solved with the facilitation of AVerVision SPC300. Almost all of Professor Chen's classes, be it contour designing, lighting, or shading, can now be captured by a 3.2 megapixel CMOS image sensor at an output rate of 24 frames per second. Meticulous drawing procedures can now be displayed on the big screen in real-time. With AVerVision SPC300, there's no need for the students to leave their seats, and they can also imitate professor's brushing strokes and color matching skills simultaneously. It is now possible for the students to finish their work as soon as Professor Chen finishes his. Sometimes, there's even time left for them to discuss and compare works with the demonstrated example. Heightened sense of satisfaction and self-efficacy in learning are achieved because of AVerVision SPC300.

AVerVision SPC300's Precise Zooming Capability Shows Delicate Brush Strokes Vividly

Many of the professor's students are indebted to him for using AVerVision SPC300 because the students can now see the brush strokes, color shades, the strength to exert and the direction of composition lines clearly during the instruction. In the past, this would hardly be possible even if the students were to gather around the professor. But now, through AVerVision SPC300's 48X

zooming and one-touch Auto Focus capabilities, the delicate drawing skills can be vividly and instantly displayed. Being able to immediately simulate the professor's drawing skills directly boosts the students' basic hand drawing and design composition skills. Not only that, AVerVision SPC300's compact, lightweight design, and the easy-to-set-up feature have increased its portability. The professor would conveniently carry it to teach in different classrooms, enabling more students to reap the most out of their lessons. The students from the Department of Product Design claimed that without AVerVision SPC300, it'll be impossible to watch the professor's demonstrations clearly, and the classes won't be as inspiring as it is now.