

### FPS Demonstrates Creative Exhibit Solutions with Image AnyPlace-200 at InfoComm 2010

Image AnyPlace scalers with Geometry Correction and Edge Blending have been designed into hundreds of fascinating and original projection display installations. Using the latest generation of Image AnyPlace (designated Image AnyPlace-200, or IA-200), it is possible to project onto any surface shape and size with single or multiple projectors.

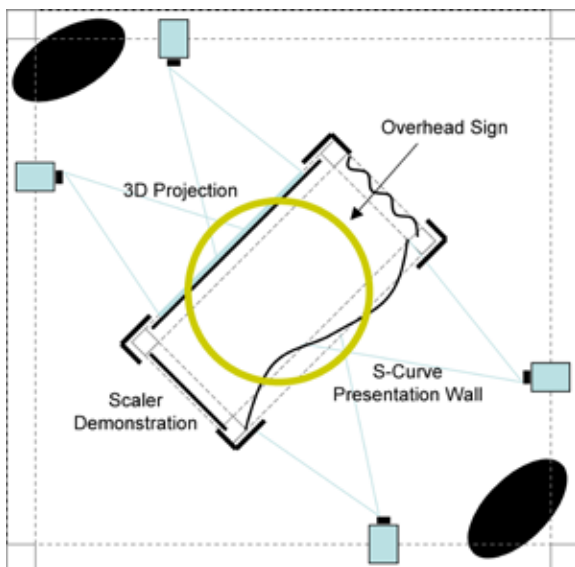
The InfoComm trade show is the meeting place of the Pro AV industry, and offers the ability to present products to installers from around the world. Given the visual nature of the industry, it is much better to show rather than tell, and we take this message to heart. Our approach is to demonstrate the power of our products by designing, implementing and operating sophisticated Pro AV installations. InfoComm 2010 gave us the opportunity to create 4 such installations in a single 20 x 20 trade show booth.



Our suspended booth sign is intended as a dynamic way of helping customers find our booth. We feel that the best way to display our presence in the Pro AV world is with Pro AV technology. Using the IA-200, we create a dynamic sign that is visible in all directions. Our company name and logo, along with some simple messaging is projected onto on a conical screen. We use the Geometry Correction features of the IA-200\_BEX to achieve the screen shaping. The continuous 360 degree visibility of the sign is achieved with the IA-200\_BEX's Edge Blending.

Our curved S-Wall presentation screen delivers the primary messages of the company. Here we show IA-200 in a typical eye catching application; creating a precise projection onto a curved wall with 2 points of inflection. Two SXGA+ projectors are used with an overlap zone

of 25%. The resultant image has a net aspect ratio of 7:3 or very close to 2.35:1. We use Geometry Correction to shape the projection to the S-shaped wall. The overlap and blend is accomplished by the IA-200\_BEX's Edge Blending.



Our 3D passive projection system demonstrates a superior method of 3D projection. By precisely co-locating the 2 images produced by 2 projectors (one for left eye; one for right eye), we can achieve precise position and time synchronization between the left and right eye. The result is a 3D system that simultaneously achieves the goals of using inexpensive, movie theater style 3D glasses and time synchronization between eyes (shown to significantly reduce negative effects associated with 3D such as headaches). We use the Keystone Correction features of the IA-200\_EX to precisely align right and left eye images.

Our OmniScale (OS-200) video wall demonstration shows high quality up and downscaling. The superior downscaling capability of the OS-200 can be used to prepare high quality video from high resolution sources for display onto a large area, with low resolution LED signs. The powerful upscaling capability of OS-200 can be used to spread a single high resolution image across multiple cube components of a video wall display. We use our Scriptex script display program to simultaneously control four OS-200 scalers in a dynamic demonstration of both down and upscaling, delivering Horizontal and Vertical Scale and Crop commands to each OS-200 at timed intervals. In our demo, the image expands from a postage stamp size, downscaled video image (1080P scaled to 192 x 108 pixels) in the corner of one of our 1080P monitors, to a full size image spread across all four 1080P monitors.



## Overhead Sign Details and Equipment List

The overhead screen is 8 feet in diameter at the top, and 5 feet in diameter at the bottom. The distance between top and bottom is 2.5 feet, and the sign hangs at 6 feet above the top of the truss. Canon SX-7 projectors are placed at each side of the 20 x 20 truss. Computer generated SXGA+ signals are provided to each of the four IA-200\_BEX systems. Each BEX shapes (geometrically corrects) the projected image for its quadrant (although the screen is theoretically conical, there are several irregularities in it, which makes the Geometry Correction more challenging). Each BEX unit also blends the image with its right hand and left hand neighbor, providing a wrap around image.



## Curved S-Wall Presentation Details and Equipment List

Two Canon SX-7 projectors are mounted from the truss. A computer generated signal is fed to a distribution amplifier that provides common input to two IA-200\_BEX units. The left side of the image (4/7 of the input display) is extracted, scaled and shaped to the left 4/7 of the curved wall by the left IA-200\_BEX. The right side of the image (4/7 of the input display) is also extracted, scaled and shaped to the right 4/7 of the curved wall by the right IA-200\_BEX. The central 1/7 portion of the display is overlapped by the output of both systems, and is then Edge Blended to create the seamless picture.



## 3D Demonstration Details and Equipment List

Two Canon SX-7 projectors are mounted from the truss. Each IA-200\_EX is provided with a DVI signal from a dual output display computer. Each IA-200 precisely Keystone corrects the output of each signal such that the two images are exactly aligned upon the Severtson screen. The projectors are fitted with polarizing filters that are aligned at 90 degrees with respect to each other. Paper 3D glasses with complementary polarization (\$0.25 each) are distributed to all booth visitors. The computer plays previously encoded 3D material using a stereoscopic player utility.



## Scaler Demonstration Details and Equipment List

The output of a Blu-Ray player at 1080P is sent to a 1 x 4 HDMI distribution amplifier. Each output of the distribution amplifier drives an OS-200 which crops and scales the incoming image, and drives an Acer monitor. A control computer interfaces through a network switch to each OS-200. The control computer runs the Scriptex script control program, which provides the scale and crop factors to each OS-200.