Creating Semi-Independent 2x2 Videowalls Using One 16-Channel Brick-2 Videowall Processor

It is possible to drive several semi-independent videowall arrays using a single Brick-2 processor. The processor cannot display fully independent images on the arrays, but it can display different effects on each array creating the impression that there are several independent videowalls.

Here is an example creating two 2x2 videowalls using a single Brick-2 videowall processor.

Create the two videowalls by connecting the two arrays of monitors to the following processor outputs

Videowall Array 1:   CH1   CH2
                          CH5   CH6

Videowall Array 2:   CH11 CH12
                          CH15 CH16

When the videowall processor is set to a split of x2, both walls will display the same image.

It is possible to make either array display a 2x2 magnified image from (say) Video Input Channel 1, while the second 2x2 array displays single images on each monitor from Video Input Channel 2, or a colour wash or a combination of both colour wash or single images.

For example: to display a x2 magnified image on one wall from one video source and 4 single images on the other video wall from another source, create the following script.

```
; Set up sources, Input 2 = image to be magnified, Input 1 = single images
SETSPLIT 1              ; Set a split of 1, so wipes work
WIPE LEFT B INSTANT    ; Use channel 2 as input for Magnified image
SETSPLIT 2             ; Set a split of x2

; Set Array 1 = 2x2 magnified image
DISPLAY A1 0
DISPLAY A2 0
DISPLAY B1 0
DISPLAY B2 0

; Set Array 2 = 4 identical single images
DISPLAY C3 1
DISPLAY C4 1
DISPLAY D3 1
DISPLAY D4 1
```

The above could be in one sequence to set things up. Then to swap single images / magnified images between the video walls use the following script:-

```
; Set Array 1 = 4 single images
DISPLAY A1 1
DISPLAY A2 1
DISPLAY B1 1
DISPLAY B2 1

; Set Array 2 = 2x2 magnified image
DISPLAY C3 0
DISPLAY C4 0
DISPLAY D3 0
DISPLAY D4 0
```

These scripts can be cut and pasted into sequence files that can be run using the Brick-2 videowall control software.

<u>Alternative Configurations</u>

If a split of x4 is set, it is possible to split the image horizontally, or vertically so that one 2x2 array displays 1/4 of the 4x4 magnified image from video input channel 1 while the second 2x2 array displays 1/4 of the 4x4 magnified from channel 2.

You can achieve the same effect by pre-processing the video using a video editor to mix sources into one video image in the quarters of the screen and then use the video wall processor to display any 1/4 on either 2x2 videowall segment.

Of course the video quality will not be quite as good as a normal 2x2 but should be quite acceptable when viewed at normal distance from the arrays.

END.