

WHAT IS CLAIMED IS:

1. An integrated audio-visual system, comprising:
 - one or more loudspeakers configured to generate sound; and
 - a visual display configured to deliver a visual representation of an event, the visual display comprising a plurality of openings configured to allow the sound to propagate through the visual display,
 - wherein the loudspeaker and the visual display are situated to be a displacement distance from each other to allow a wavefront of the sound to form between the loudspeaker and the visual display before the sound is to propagate through the visual display.
2. The integrated audio-visual system of claim 1, wherein the loudspeaker comprises:
 - one or more line arrays of loudspeakers.
3. The integrated audio-visual system of claim 1, wherein the visual display comprises:
 - a plurality of visual display panels, each display panel from among the plurality of visual display panels comprising:
 - a printed circuit board substrate; and
 - a plurality of visual emission elements arranged in a plurality of rows and a plurality of columns on the printed circuit board substrate to form an array of visual emission elements, and
 - wherein the plurality of openings are situated between adjacent rows from among the plurality of rows.
4. The integrated audio-visual system of claim 3, wherein each display panel from among the plurality of visual display panels further comprises:
 - a plurality of first transmission lines situated along rows from among the plurality of rows; and
 - a plurality of second transmission lines situated along columns from among the plurality of columns,

wherein the plurality of openings are situated between adjacent transmission lines from among the plurality of second transmission lines.

5. The integrated audio-visual system of claim 3, wherein visual emission elements from among the plurality of visual emission elements along each row from among the plurality of rows are separated by a row distance,
wherein visual emission elements from among the plurality of visual emission elements along each column from among the plurality of columns are separated by a column distance, and
wherein the row distance is equal to the column distance.
6. The integrated audio-visual system of claim 5, wherein the row distance and the column distance is six (6) millimeters (mm) or nine (9) mm.
7. The integrated audio-visual system of claim 3, wherein the plurality of visual emission elements comprises:
a plurality of light-emitting diodes (LEDs);
a plurality of organic light-emitting diodes (OLEDs) displays; or
a plurality of quantum dots (QDs).
8. The integrated audio-visual system of claim 1, wherein the plurality of openings are characterized as being rectangular geometric shapes.
9. The integrated audio-visual system of claim 8, wherein the rectangular geometric shapes are further radially shaped in accordance with a radius.
10. The integrated audio-visual system of claim 1, wherein the loudspeaker is positioned behind the visual display to be shielded from a field of view of one or more spectators of the event.

11. The integrated audio-visual system of claim 1, wherein the displacement distance is 50 centimeters (cm).
12. A visual display for an integrated audio-visual system, the visual display comprising:
 - a plurality of visual display panels, each visual display panel from among the plurality of visual display panels comprising:
 - a plurality of visual emission elements situated along a plurality of rows and a plurality of columns,
 - a plurality of first transmission lines situated along rows from among the plurality of rows,
 - a plurality of second transmission lines situated along columns from among the plurality of columns, and
 - a plurality of openings situated between adjacent rows from plurality of rows and between adjacent transmission lines from among the plurality of second transmission lines; and
 - a visual display mechanical housing configured to arrange the plurality of visual display panels to be in a second plurality of rows and a second plurality of columns to form an array of visual display panels, the plurality of visual display panels functionally cooperating to deliver a visual representation of an event.
13. The visual display of claim 12, wherein the plurality of visual emission elements is arranged to be in a second plurality of rows and a second plurality of columns to form an array of visual emission elements, and
 - wherein the plurality of openings are situated between adjacent rows from among the second plurality of rows.
14. The visual display of claim 13, wherein the plurality of visual display panels comprises:
 - a plurality of first transmission lines situated along rows from among the second plurality of rows; and
 - a plurality of second transmission lines situated along columns from among the second plurality of columns,

wherein the plurality of openings are situated between adjacent transmission lines from among the plurality of second transmission lines.

15. The visual display of claim 13, wherein visual emission elements from among the plurality of visual emission elements along each row from among the second plurality of rows are separated by a row distance,
 - wherein visual emission elements from among the plurality of visual emission elements along each column from among the second plurality of columns are separated by a column distance, and
 - wherein the row distance is equal to the column distance.
16. A visual display panel, comprising:
 - a substrate having a plurality of openings;
 - a plurality of visual emission elements, coupled to the substrate, arranged in a plurality of rows and a plurality of columns to form an array of visual emission elements, wherein each opening from among the plurality of openings is situated between adjacent rows from among the plurality of rows; and
 - a plurality of first transmission lines, formed onto the substrate, situated along rows from among the plurality of rows; and
 - a plurality of second transmission lines, formed onto the substrate, situated along columns from among the plurality of columns,
 - wherein each opening from among the plurality of openings is further situated between adjacent transmission lines from among the plurality of second transmission lines.
17. The visual display panel of claim 16, wherein visual emission elements from among the plurality of visual emission elements along each row from among the plurality of rows are separated by a row distance,
 - wherein visual emission elements from among the plurality of visual emission elements along each column from among the plurality of columns are separated by a column distance, and
 - wherein the row distance is equal to the column distance.

18. The visual display panel of claim 17, wherein the row distance and the column distance is six (6) millimeters (mm) or nine (9) mm.
19. The visual display panel of claim 16, wherein the visual display panel is from among a plurality of visual display panels, the plurality of visual display panels being arranged in a second plurality of rows and a second plurality of columns to form a visual to deliver a visual representation of an event
20. The visual display panel of claim 16, wherein the plurality of openings are characterized as being rectangular geometric shapes.
21. The visual display panel of claim 20, wherein the rectangular geometric shapes are further radially shaped in accordance with a radius.