CLAIMS

1. A three-dimensional display system, comprising:

a first display;

a second display spaced apart from the first display and comprising one or more light sources configured to emit light and to illuminate the first display, wherein the first display is at least partially transparent such that the second display is visible through the first display;

a special effect system disposed at least in part between the first display and the second display and configured to be activated to cause a release of a special effect material into a space between the first display and the second display and to be visible through the first display; and

a controller communicatively coupled to the first display, the second display, and the special effect system.

2. The three-dimensional display system of claim 1, comprising one or more sensors coupled to an enclosure and configured to generate a sensor signal indicative of proximity or presence of a user.

3. The three-dimensional display system of claim 2, wherein the controller is configured to drive the activation of the special effect material based on the sensor signal generated by the one or more sensors.

4. The three-dimensional display system of claim 2, wherein the controller is configured to drive display content on the first display, the second display, or both based on the sensor signal generated by the one or more sensors.

5. The three-dimensional display system of claim 2, wherein the one or more sensors comprises a camera, a proximity sensor, a sound sensor, or a motion sensor.

6. The three-dimensional display system of claim 1, wherein the special effect system comprises a motor that is configured to actuate one or more dynamic features positioned between the first display and the second display.

7. The three-dimensional display system of claim 6, wherein the one or more dynamic features is actuated to move into the space from an exterior of the space.

8. The three-dimensional display system of claim 2, wherein the controller is configured to activate a haptic effect based on a detected motion of the user, wherein the detected motion is based on the sensor signal.

9. The three-dimensional display system of claim 1, wherein the first display displays first display content while the second display displays second display content such that the second display content is visible through the first display content of the first display.

10. A three-dimensional display system, comprising:

a first display that is at least partially transparent;

a second display comprising one or more light sources configured to emit light and to illuminate the first display;

a special effect system disposed between the first display and the second display and configured to release a special effect material into a space between the first display and the second display;

a plurality of sensors configured to generate one or more sensor signals indicative of a detected motion of a user; and

a controller configured to activate the special effect system based in part on the sensor signals generated by the plurality of sensors to cause the special effect system to release the special effect material into the space.

11. The three-dimensional display system of claim 10, wherein the plurality of sensors comprises a camera, a noise sensor, or a position sensor.

12. The three-dimensional display system of claim 10, wherein the controller is configured to adjust a speed, timing, angle, or position of the release of the material of the special effect system based in part on the sensor signals generated by the plurality of sensors.

13. The three-dimensional display system of claim 10, wherein the special effect system activates a haptic effect based in part on the detected motion of the user.

14. The three-dimensional display system of claim 10, wherein the special effect system generates a voice font based in part on the one or more sensor signals indicative of the presence of the user.

15. A method of forming a three-dimensional display, comprising:

receiving a sensor signal indicative of a presence or proximity of a user;

activating a first display configured to display a first display content, the first display being at least partially transparent, and a second display configured to display a second display content, the second display comprising one or more light sources, based on the sensor signal, wherein the first display and the second display are spaced apart from one another such that the one or more light source illuminate the first display when the second display is activated; and

activating a special effect system to actuate an actuatable object within a space between the first display and the second display based on the sensor signal, such that the display content of the first display or the second display is aligned with a position of the actuatable object during actuation and such that the display content together with the actuatable object forms a three-dimensional object.

16. The method of claim 15, comprising adjusting a distance between the actuatable object of the special effect system and the first display.

17. The method of claim 16, comprising controlling a speed at which the distance between the actuatable object and the first display is adjusted.

18. The method of claim 15, comprising adjusting an orientation, an angle, or a position of an actuatable object of the special effect system.

19. The method of claim 15, comprising actuating an actuatable object of the special effect system from a first position, wherein the first position is at least partially disposed outside of an enclosed space between the first display and the second display.

20. The three-dimensional display system of claim 1, wherein the special effect material is released from a reservoir, the reservoir being at least partially disposed outside of the space.

21. The three-dimensional display system of claim 2, wherein the controller is configured to receive the sensor signal and select a characteristic of the release of the special effect material based on the sensor signal.

22. A three-dimensional display system, comprising:

one or more first displays that are at least partially transparent;

a second display comprising one or more light sources configured to emit light and to illuminate the at least one of the one or more first displays;

one or more special effect systems disposed between at least one of the one or more first displays and the second display and configured to release one or more special effect materials;

one or more sensors configured to generate one or more sensor signals indicative of a presence of a user; and

one or more controllers configured to activate the at least one of the one or more special effect systems based in part on at least one of the one or more sensor signals generated by at least one of the one or more sensors to cause at least one of the one or more special effect systems to release at least one of the one or more special effect materials.

23. The three-dimensional display system of claim 22, wherein at least one of the one or more controllers is configured to identify the user based on the at least one of the one or more sensor signals and to select one or more special effects of at least one of the one or more special effect systems based on the identified user.

24. The three-dimensional display system of claim 23, wherein the at least of the one or more controllers is configured to perform facial recognition to identify the user as being a repeat visitor.

25. The three-dimensional display system of claim 24, wherein the at least one of the one or more controllers is configured to select at least one of the one or more special effects of at

least one of the one or more special effect systems based on the identified user being the repeat visitor such that the selected at least one of the one or more effects is a different effect relative to a previous visit of the user.

26. The three-dimensional display system of claim 22, wherein at least one of the one or more controllers is configured to identify the user and additional users based on at least one of the one or more sensor signals and to select one or more effects of at least one of the one or more special effect systems based on the identified user and the additional users.

27. The three-dimensional display system of claim 26, wherein the at least one of the one or more controllers is configured to select the at least one of the one or more effects of the one or more special effect systems based on a number of the additional users.

28. The three-dimensional display system of claim 22, wherein the one or more sensors comprises a camera, a noise sensor, or a position sensor.

29. The three-dimensional display system of claim 22, wherein at least one of the one or more the controllers is configured to adjust a speed, timing, angle, or position of the release of the at least one of the one or more special effect materials of the one or more special effect systems based in part on at least one of the one or more sensor signals.

30. The three-dimensional display system of claim 22, wherein at least one of the one or more special effect materials comprises one or more of a smoke, fog, rain, or snow effect.

31. The three-dimensional display system of claim 22, wherein at least one of the one or more special effect materials is released from a reservoir.

32. A special effects method, comprising:

receiving one or more sensor signals from one or more sensors, at least one of the one or more sensor signals being indicative of a presence and/or proximity of a user;

activating one or more first displays, the one or more first displays being at least partially transparent;

activating a second display, the second display comprising one or more light sources, wherein at least one of the one or more first displays and the second display are spaced apart from one another such that the one or more light sources illuminate the at least one of the one or more first displays when the second display is activated; and

activating one or more actuatable elements to move based on at least one of the one or more sensor signals.

33. The method of claim 32, comprising releasing one or more special effect materials based on the at least one of the one or more sensor signals.

34. The method of claim 33, wherein at least one of the one or more special effect materials is released into one or more spaces between the at least one of the one or more first displays and the second display.

35. The method of claim 32, wherein activating at least one of the one or more actuatable elements comprises adjusting one or more distances between the at least one of the one or more actuatable elements and the at least one of the one or more first displays.

36. The method of claim 35, comprising controlling one or more speeds at which the one or more distances between the at least one of the one or more actuatable elements and the at least one of the one or more first displays are adjusted.

37. The method of claim 32, wherein actuation of at least one of the one or more actuatable elements comprises activation of one or more motors.

38. The method of claim 32, comprising determining a location of the user based on the at least one of the one or more sensor signals.

39. The method of claim 32, comprising identifying the user based on the at least one of the one or more sensor signals and activating one or more special effects and/or changing one or more actuation characteristics of at least one of the one or more actuatable elements based on the identification.

40. The method of claim 39, wherein the identifying comprises facial recognition.

41. The method of claim 32, comprising adjusting an orientation, an angle, or a position of at least one of the one or more actuatable elements based on the at least one of the one or more sensor signals.