CLAIMS

1. A device configured to play one or more of a plurality of audio streams comprising: a memory configured to store timing information and the plurality of audio streams, wherein the timing information comprises a delay; and one or more processors coupled to the memory, and configured to: control access to at least one of the plurality of audio streams based on the timing information; detect a trigger; compare the delay to a timer; and wait until the delay is equal to or greater than the timer to select a subset of the plurality of audio streams.

2. The device of claim 1, wherein the memory is further configured to store location information associated with coordinates of an acoustical space in which a corresponding one of the plurality of audio streams was captured or synthesized.

3. The device of claim 1, wherein the one or more processors are further configured to combine at least two of the plurality of audio streams by at least one of mixing or interpolation or another variant of soundfield manipulation.

4. The device of claim 1, wherein the one or more processors are further configured to change a gain of one or more of the plurality of audio streams.

5. The device of claim 1, further comprising a display device.

6. The device of claim 5, further comprising a microphone, wherein the one or more processors are further configured to receive a voice command from the microphone and control the display device based on the voice command.

7. The device of claim 1, further comprising one or more speakers.

8. The device of claim 1, wherein the device comprises an extended reality headset, and wherein an acoustical space comprises a scene represented by video data captured by a camera.

9. The device of claim 1, wherein the device comprises an extended reality headset, and

wherein an acoustical space comprises a virtual world.

10. The device of claim 1, further comprising a head-mounted display configured to present an acoustical space.

11. The device of claim 1, wherein the device comprises one of a mobile handset or a vehicle.

12. The device of claim 1, further comprising a wireless transceiver, the wireless transceiver being coupled to the one or more processors and being configured to receive a wireless signal.

13. A device configured to play one or more of a plurality of audio streams comprising: a memory configured to store timing information and the plurality of audio streams; and one or more processors coupled to the memory, and configured to: control access to at least one of the plurality of audio streams based on the timing information by selecting a subset of the plurality of audio streams, the subset of the plurality of audio streams excluding at least one of the plurality of audio streams; obtain, from a user, an override request to add at least one excluded audio stream of the plurality of audio streams; and based upon the override request, add the at least one excluded audio stream for a limited time period.

14. The device of claim 13, wherein the excluded streams are associated with one or more privacy zones.

15. The device of claim 14, wherein the one or more processors are further configured to: determine an authorization level for a user; compare the authorization level for the user to an authorization level of the one or more privacy zones; and select the subset of the plurality of audio streams based on the comparison.

16. The device of claim 13, wherein the one or more processors are configured to control access to the at least one of the plurality of audio streams by not downloading or receiving at least one of the plurality of audio streams based on the timing information.

17. The device of claim 13, wherein the timing information comprises a start time of when at least one of the plurality of audio streams includes audio content.

18. The device of claim 17, wherein the one or more processors are configured to: compare the start time to a current time; and select, when the start time is equal to or greater than the current time, a subset of the plurality of audio streams.

19. The device of claim 13, wherein the timing information comprises a duration of at least one of the plurality of audio streams.

20. The device of claim 19, wherein the one or more processors are configured to: compare the duration to a timer; and select, when the duration is equal or greater than the timer, a subset of the plurality of audio streams.

21. The device of claim 13, wherein the one or more processors are configured to: obtain from a user a request for one of a plurality of ambisonic soundfield types; and reproduce corresponding soundfields, based on the request for the one of a plurality of ambisonic soundfield types, and the plurality of audio streams or a subset of the plurality of audio streams, wherein the plurality of ambisonic soundfield types comprises at least two of first order ambisonic soundfield (FOA), higher order ambisonic soundfield (HOA), and mixed order ambisonic soundfield (MOA).

22. A method of playing one or more of a plurality of audio streams comprising: storing, by a memory, timing information and the plurality of audio streams, wherein the timing information comprises a delay; controlling access to at least one of the plurality of audio streams based on the timing information; detecting a trigger; comparing the delay to a timer; and waiting until the delay is equal to or greater than the timer to select a subset of the plurality of audio streams.

23. The method of claim 22, further comprising storing location information associated with coordinates of an acoustical space in which a corresponding one of the plurality of audio streams was captured or synthesized.

24. The method of claim 22, further comprising combining at least two of the plurality

of audio streams by at least one of mixing or interpolation or another variant of soundfield manipulation.

25. The method of claim 22, further comprising changing a gain of one or more of the plurality of audio streams.

26. The method of claim 22, further comprising receiving, by a microphone, a voice command and controlling a display device based on the voice command.

27. The method of claim 22, further comprising outputting at least one of the plurality of audio streams to one or more speakers.

28. The method of claim 22, wherein an acoustical space comprises a scene represented by video data captured by a camera.

29. The method of claim 22, wherein an acoustical space comprises a virtual world.

30. The method of claim 22, further comprising presenting an acoustical space on a head-mounted device.

31. The method of claim 22, further comprising presenting an acoustical space on a mobile handset or in a vehicle.

32. The method of claim 22, further comprising receiving a wireless signal.

33. A method of playing one or more of a plurality of audio streams comprising: storing, by a memory, timing information and the plurality of audio streams; controlling access to at least one of the plurality of audio streams based on the timing information, wherein the controlling access to the at least one of the plurality of audio streams comprises selecting a subset of the plurality of audio streams, the subset of the plurality of audio streams excluding at least one of the plurality of audio streams; obtaining, from a user, an override request to add at least one excluded audio stream of the plurality of audio streams; and based upon the override request, adding the at least one excluded audio stream for a limited time period.

34. The method of claim 33, wherein the excluded streams are associated with one or more privacy zones.

35. The method of claim 34, further comprising: determining an authorization level for a user; comparing the authorization level for the user to an authorization level of the one or more privacy zones; and selecting the subset of the plurality of audio streams based on the comparison.

36. The method of claim 33, wherein the controlling access to the at least one of the plurality of audio streams comprises not downloading or receiving at least one of the plurality of audio streams based on the timing information.

37. The method of claim 33, wherein the timing information comprises a start time of when at least one of the plurality of audio streams includes audio content.

38. The method of claim 37, further comprising: comparing the start time to a current time; and selecting, when the start time is equal to or greater than the current time, a subset of the plurality of audio streams.

39. The method of claim 33, wherein the timing information comprises a duration of at least one of the plurality of audio streams.

40. The method of claim 39, further comprising: comparing the duration to a timer; and selecting, when the duration is equal or greater than the timer, a subset of the plurality of audio streams.

41. The method of claim 33, further comprising: obtaining, from a user, a request for one of a plurality of ambisonic soundfield types; and reproducing corresponding soundfields, based on the request for the one of a plurality of ambisonic soundfield types, and the plurality of audio streams or a subset of the plurality of audio streams, wherein the plurality of ambisonic soundfield types comprises at least two of first order ambisonic soundfield (FOA), higher order ambisonic soundfield (HOA), and mixed order ambisonic soundfield (MOA).