

CLAIMS:

1. An augmented reality system, comprising:
 - a first scene;
 - a second scene;
 - a partially reflective surface positioned relative to the first scene, the second scene, and an audience to facilitate viewing of one of the first scene or the second scene through the partially reflective surface and to facilitate reflection of the other of the first scene or the second scene toward the audience as augmented reality imagery;
 - a sensor configured to detect a characteristic of the first scene and generate data indicative of the characteristic; and
 - a correlative effect system configured to receive the data and adjust the second scene based on the data.
2. The augmented reality system of claim 1, wherein the first scene comprises first lighting, the second scene comprises second lighting, the characteristic is a lighting characteristic, and the correlative effect system is configured to adjust the second lighting based on the lighting characteristic of the first scene.
3. The augmented reality system of claim 2, wherein the first scene is a background scene, the first lighting is background scene lighting, the second scene is an augmented reality scene, and the second lighting is augmented reality lighting.
4. The augmented reality system of claim 2, wherein the first scene is an augmented reality scene, the first lighting is augmented reality lighting, the second scene is a background scene, and the second lighting is background scene lighting.
5. The augmented reality system of claim 1, wherein the second scene comprises an image generator and the correlative effect system is configured to adjust a color, a

contrast or a combination thereof of an image provided by the image generator based on the data, wherein the data is indicative of lighting of the first scene.

6. The augmented reality system of claim 1, wherein:

the sensor is configured to detect a position of a physical object in the first scene and generate the data to be indicative of the position, and

the correlative effect system is configured to adjust the second scene such that the augmented reality imagery is positioned relative to the position of the physical object.

7. The augmented reality system of claim 1, comprising an image generator configured to mimic a reflection of the augmented reality imagery in the first scene based on the data.

8. The augmented reality system of claim 1, wherein the first scene comprises a three-dimensional stage setting and the sensor comprises a camera configured to detect lighting characteristics of the three-dimensional stage setting.

9. The augmented reality system of claim 1, wherein the first scene comprises an electronic display.

10. The augmented reality system of claim 1, wherein the sensor is one of a plurality of sensors configured monitor one or both of the first scene and the second scene for movement and lighting characteristics.

11. The augmented reality system of claim 1, wherein the correlative effect system is configured to adjust lighting of the first scene to create shadows in the first scene based on a position of a virtual luminous object of the augmented reality imagery on the partially reflective surface.

12. An augmented reality system, comprising:
a background scene including background scene lighting;
an augmented reality scene including augmented reality scene lighting;
a partially reflective surface positioned relative to the background scene, the augmented reality scene, and an audience to facilitate viewing of the background scene through the partially reflective surface and to facilitate reflection of the augmented reality scene toward the audience as augmented reality imagery;
a sensor configured to detect a lighting characteristic of the background scene and generate data indicative of the lighting characteristic; and
a correlative effect system configured to receive the data and adjust the augmented reality scene lighting based on the data.

13. The augmented reality system of claim 12, comprising a motion detection system configured to detect positioning of a physical object in the background scene and adjust the augmented reality imagery to provide a virtual object in a position corresponding to the detected positioning of the physical object.

14. The augmented reality system of claim 12, wherein the background scene comprises a theatre stage and the partially reflective surface comprises a partially mirrored foil.

15. The augmented reality system of claim 12, comprising a display in the background scene configured to mimic a reflection of the augmented reality imagery.

16. The augmented reality system of claim 12, comprising an additional sensor configured to detect an additional lighting characteristic of the augmented reality scene and generate additional data indicative of the additional lighting characteristic, wherein the correlative effect system is configured to receive the additional data and adjust the background scene lighting based on the additional data.

17. The augmented reality system of claim 16, wherein the augmented reality scene comprises a three-dimensional staging area.

18. An augmented reality system, comprising:

a background scene including a three-dimensional staging area and background scene lighting configured to adjustably illuminate the three-dimensional staging area;

an augmented reality scene including augmented reality scene lighting configured to provide augmented reality imagery;

a partially reflective surface positioned relative to the background scene, the augmented reality scene, and an audience to facilitate viewing of the background scene through the partially reflective surface and to facilitate reflection of the augmented reality imagery toward the audience;

a sensor configured to detect a characteristic of one of the background scene or the augmented reality scene, wherein the sensor is also configured to generate data indicative of the characteristic; and

a correlative effect system configured to receive the data and adjust an aspect of the other of the background scene or the augmented reality scene based on the data.

19. The augmented reality system of claim 18, wherein the augmented reality scene comprises a display screen, the augmented reality scene lighting comprises lighting of the display screen, the sensor is configured to generate the data being indicative of a lighting characteristic of the background scene, and the correlative effect system is configured to control the lighting of the display screen to provide characteristics of the augmented reality imagery correlative to the data.

20. The augmented reality system of claim 18, comprising a motion detection system configured to detect positioning of a physical object in the background scene and

adjust the augmented reality imagery to provide a virtual object in a position corresponding to the detected positioning of the physical object.