

CLAIMS:

1. A special effects light system configured to generate a halo effect, the special effects light system comprising:

one or more sensors configured to output one or more signals;

a retroreflective target;

an object comprising one or more light sources disposed on an end of the object, wherein the end of the object is spatially oriented to face the retroreflective target such that light from the one or more light sources is emitted onto the retroreflective target; and

a controller communicatively coupled to the one or more sensors and the one or more light sources, wherein the controller comprises a processor configured to adjust the light from the light source based in part on the one or more signals output by the one or more sensors, wherein the one or more signals output by the one or more sensors are indicative of a position of the object, a condition of the one or more light sources, or a combination thereof.

2. The special effects light system of claim 1, wherein the one or more light sources comprises a light emitting diode.

3. The special effects light system of claim 1, wherein the one or more signals output by the one or more sensors are indicative of a position of an individual holding the object or a gaze direction of the individual holding the object.

4. The special effects light system of claim 1, wherein the object is a toy, a prop, or a wearable device.

5. The special effects light system of claim 1, wherein the one or more sensors are disposed on or in the object.

6. The special effects light system of claim 1, wherein the one or more sensors are disposed in an environment surrounding the object.
7. The special effects light system of claim 6, wherein the one or more signals are indicative of a location of the light source within the environment.
8. The special effects light system of claim 1, wherein the one or more sensors are coupled to a retroreflective target or a moveable platform.
9. The special effects light system of claim 8, wherein the controller is configured to adjust a speed or a movement of the retroreflective target or the moveable target.
10. The special effects light system of claim 1, wherein the controller is configured to illuminate a first light source of the one or more light sources independently from a second light source of the one or more light sources based in part on the signal received by the one or more sensors.
11. A special effects light system, comprising:
 - a moveable platform comprising a retroreflective target;
 - a location sensor configured to output a signal indicative of a guest's location or line of sight;
 - an object comprising a light source, wherein the object is disposed in the guest's line of sight; and
 - a controller communicatively coupled to the moveable platform and the location sensor, wherein the controller comprises a processor configured to:
 - identify a gaze direction of the guest based at least in part on the signal;
 - determine that a change in the gaze direction of the guest has occurred based at least in part on a second signal indicative of the guest's location or the guest's line of sight; and

in response to determining that the gaze direction has changed, performing an action to adjust the location of the moveable platform.

12. The system of claim 11, wherein the controller is configured to adjust a speed of the retroreflective target.

13. The system of claim 11, wherein the controller is configured to adjust the location of the moveable platform such that the object and the movable platform are within the guest's line of sight based on the second signal.

14. The system of claim 11, wherein the object is a wand or a wearable object.

15. The system of claim 11, wherein the light source comprises a light emitting diode.

16. The system of claim 11, wherein the object is not illuminated when the moveable platform is out of the guest's line of sight.

17. A special effects light system configured to generate a halo effect, comprising:
an object in an environment comprising at least a surface or end oriented to face a retroreflective target;

one or more sensors configured to output one or more signals indicative of a position of the surface or end of the object; and

a controller communicatively coupled to the one or more sensors and one or more light sources of a projector, wherein the controller comprises a processor configured to receive the one or more signals output by the one or more sensors and to control the projector to project light from one or more light sources onto the surface or end of the object.

18. The system of claim 17, wherein the one or more light sources are laser light sources and wherein the projector is a laser projector.

19. The system of claim 17, wherein the controller is configured to select a color of the projected light based on identification information of the object or a guest holding the object.

20. The system of claim 17, wherein the object is a wand and wherein the surface or end comprises a reflector.