

CLAIMS:

1. An amusement park attraction installation, comprising:
 - a camera disposed on a side of a window, wherein the camera comprises a lens and is configured to capture image data indicative of movement of a guest on an opposite side of the window;
 - a light source positioned on the side of the window; and
 - a camera housing disposed at least partially about the camera, wherein the camera housing comprises an inner volume and an opening to the inner volume surrounded by an edge of the camera housing, wherein the lens is disposed within the inner volume, and the edge of the camera housing is in abutment with a surface of the window.
2. The amusement park attraction installation of claim 1, wherein the camera housing comprises a plurality of panels that define the inner volume and the opening, and wherein a respective surface of each panel of the plurality of panels facing the inner volume comprises a black shade or color.
3. The amusement park attraction installation of claim 2, wherein the black shade or color is a matte black shade or color or a flat black shade or color.
4. The amusement park attraction installation of claim 1, comprising an articulating arm coupled to the camera and configured to suspend the camera within the inner volume, wherein a body of the camera is completely disposed within the inner volume, and wherein the articulating arm is partially disposed within the inner volume.
5. The amusement park attraction installation of claim 4, wherein the articulating arm extends through a panel of the plurality of panels to an exterior of the camera housing.
6. The amusement park attraction installation of claim 1, wherein the edge of the camera housing comprises a gasket in abutment with the surface of the window.

7. The amusement park attraction installation of claim 6, wherein the gasket is formed from a compressive material, and the compressive material comprises foam, rubber, neoprene, a polymeric material, or any combination thereof.

8. The amusement park attraction installation of claim 1, wherein the light source is a display screen.

9. The amusement park attraction installation of claim 1, comprising a camera system including the camera, wherein the camera system comprises processing circuitry and one or more tangible, non-transitory, computer-readable media that store instructions executable by the processing circuitry, wherein the instructions, when executed, cause the processing circuitry to track motion of the guest based on the image data using skeletal tracking.

10. The amusement park attraction installation of claim 1, wherein a portion of the camera is disposed within the inner volume, and a remaining portion of the camera is disposed external to the inner volume.

11. A camera housing, comprising:

a plurality of panels defining an inner volume, an opening to the inner volume, and an edge extending about a perimeter of the opening, wherein a respective surface of each panel of the plurality of panels facing the inner volume comprises a black shade or color, and wherein the plurality of panels is configured to surround a camera lens disposed within the inner volume; and

a gasket disposed on the edge and extending about the perimeter of the opening,

wherein the camera housing is configured to be positioned against a surface of a transparent panel, such that the gasket is disposed against the surface.

12. The camera housing of claim 11, wherein the plurality of panels is configured to contain a camera having the camera lens disposed within the inner volume.

13. The camera housing of claim 11, wherein a panel of the plurality of panels is removably coupled to remaining panels of the plurality of panels.
14. The camera housing of claim 11, wherein the gasket comprises foam, felt, rubber, neoprene, a polymeric material, or any combination thereof.
15. The camera housing of claim 11, wherein the camera housing is configured to couple to a camera having the camera lens, such that a portion of the camera including the lens is disposed within the inner volume, and a remaining portion of the camera is disposed external to the inner volume.
16. The camera housing of claim 11, wherein the black shade or color is a matte black shade or color or a flat black shade or color.
17. A feature installation of an amusement park attraction, the feature installation comprising:
- a light source positioned on a first side of a window;
 - a camera positioned on the first side of the window and configured to capture image data of a guest of the amusement park attraction located on a second side of the window opposite the first side; and
 - a camera housing defining an inner volume and an opening to the inner volume, wherein the camera is at least partially disposed within the inner volume and is configured to receive the image data via the opening, the camera housing comprises a gasket extending about a perimeter of the opening, and the gasket is positioned against a surface of the window on the first side of the window.
18. The feature installation of claim 17, comprising an opaque substrate applied to an additional surface of the window on the second side of the window, wherein the opaque substrate overlaps with the opening of the camera housing.

19. The feature installation of claim 17, wherein the camera housing comprises a plurality of panels defining the inner volume and the opening, wherein each panel of the plurality of panels comprises a surface facing the inner volume, and the surface comprises a matte black shade or color or a flat black shade or color.

20. The feature installation of claim 17, comprising a camera system including the camera, wherein the camera comprises a wide-angle lens, and the camera system is configured to perform skeletal tracking of the guest based on the image data.