INTEGRATED MOBILE DEVICE PACKAGING AND VIRTUAL REALITY HEADSET

TECHNICAL FIELD

[0001] This disclosure relates to packaging for mobile electronic devices (e.g., smartphone shipping containers) that include integrated virtual reality headsets for use with a respective mobile electronic device. More specifically, this disclosure relates to packaging for mobile electronic devices where the shipping container is configured to be used as a virtual reality headset.

SUMMARY

[0002] In a general aspect, an apparatus can include a base portion that is open on a first side, and a first lens and a second lens disposed within a second side of the base portion. The apparatus can also include a ledge disposed around at least a portion of an interior perimeter of the base portion, the ledge being configured to physically support an electronic device inserted from the first side of the base portion. The apparatus can further include a lid portion that is open on a first side and closed on a second side, and a hinge that couples the base portion with the lid portion. The base portion, the lid portion and the hinge can be configured such that the base portion and the lid portion are hingeably moveable, relative to one another, between an open position and a closed position.

[0003] Implementations can include one or more of the following features. For example, the base portion and the lid portion can have corresponding angled mating surfaces. The base portion can include an outer base portion having a first lens aperture, a second lens aperture and an inner base portion. The inner base portion can include a first lens aperture aligned with the first lens aperture of the outer base portion and a second lens aperture aligned with the second lens aperture of the outer base portion. The base portion can include an adhesive layer affixing the inner base portion to the outer base portion. The inner base portion can be at least partially disposed within the outer base portion.

[0004] The first lens and the second lens can be fixedly retained between the inner base portion and the outer base portion. An optical portion of the first lens can be disposed within the first lens aperture of the inner base portion and the first lens aperture of the outer base portion. An optical portion of the second lens can be disposed within the second lens aperture of the inner base portion and the second lens aperture of the outer base portion. The first lens and the second lens can each include a plurality of tabs configured to fixedly retain the first lens and the second lens between the inner base portion and the outer base portion.

[0005] The base portion and the lid portion can have a cutout defined therein. The cutout can be configured for placement over a nose of a user.

[0006] The apparatus can include a button mechanism affixed with the base portion. The button mechanism can be configured to selectably interact with a touchscreen of the electronic device. The base portion can include an aperture that is associated with the button mechanism. A portion of the button mechanism can be exposed through the aperture. The button mechanism can include a conductive material.

[0007] The base portion can include an inner base portion and an outer base portion. The button mechanism can be fixedly retained between the inner base portion and the outer base portion. The inner base portion can include a cutout configured to receive a portion of the button mechanism. The outer base portion can include an aperture that is associated with the button mechanism. A portion of the button mechanism can be exposed through the aperture.

[0008] The base portion can include an inner base portion and an outer base portion. The inner base portion can include a recessed portion. The button mechanism can be fixedly attached to the recessed portion, such that the button mechanism is fixedly retained between the inner base portion and the outer base portion. The inner base portion can include a cutout configured to receive a portion of the button mechanism.

[0009] The hinge can include a first hinge portion and a second hinge portion. The first hinge portion can be coupled with at least one interior surface of the apparatus. The second hinge portion can be coupled with at least one exterior surface of the apparatus.

[0010] In another general aspect, an article of manufacture can include a base portion that is open on a first side, and a first lens and a second lens disposed within a second side of the base portion. The article can also include a ledge disposed around at least a portion of an interior perimeter of the base portion. The ledge can be configured to physically support an electronic device inserted from the first side of the base portion. The article can also include a lid portion that is open on a first side and closed on a second side. The article can also include a hinge that couples the base portion with the lid portion. The base portion, the lid portion and the hinge can be configured such that the base portion and the lid portion are hingeably moveable, relative to one another, between an open position and a closed position. The article can also include a sleeve configured to slidably fit over the base portion and the lid portion when in the closed position. The article can further include a tray that is configured to be placed within the base portion. The tray can include a plurality of legs configured to prevent physical contact between the tray and the first lens and the second lens.

[0011] Implementations can include one or more of the following features. For example, the tray can be configured to contain at least one accessory for the electronic device. The base portion and the lid portion can have corresponding angled mating surfaces.

[0012] The base portion can include an outer base portion and an inner base portion. The outer base portion can have a first lens aperture and a second lens aperture. The inner base portion can have a first lens aperture aligned with the first lens aperture of the outer base portion and a second lens aperture aligned with the second lens aperture of the outer base portion. The base portion can include an adhesive layer affixing the inner base portion to the outer base portion, the inner base portion being at least partially disposed within the outer base portion.

[0013] The first lens and the second lens can be fixedly retained between the inner base portion and the outer base portion. An optical portion of the first lens can be disposed within the first lens aperture of the inner base portion and the first lens aperture of the outer base portion. An optical portion of the second lens can be disposed within the second lens aperture of the inner base portion and the second lens aperture of the outer base portion.