CLAIMS:

1. A restraint system for a ride vehicle, comprising:

a soft restraint configured to extend across a passenger to secure the passenger within a seat of the ride vehicle, wherein the soft restraint comprises a pliable material configured to conform to a substantial portion of a torso of the passenger;

an inflatable bladder system integrated with the soft restraint, wherein the inflatable bladder system is configured to inflate with a gas to increase contact between the soft restraint and the torso of the passenger, wherein the inflatable bladder system comprises an inflatable bladder disposed within an internal volume of the soft restraint; and

a sensory stimulation system integrated with the soft restraint, wherein the sensory stimulation system is configured to generate sensory effects and impart the sensory effects to the torso of the passenger, and wherein the sensory stimulation system comprises an effect-generating element disposed between the inflatable bladder and the torso of the passenger when the soft restraint is in a deployed position.

2. The restraint system of claim 1, wherein the effect-generating element comprises a motor, a vibrational actuator, a thermal component, a fan, or any combination thereof.

3. The restraint system of claim 1, wherein the inflatable bladder system comprises a pump coupled to the inflatable bladder via a hose, and wherein the pump is configured to supply the gas to the inflatable bladder.

4. The restraint system of claim 3, wherein the pump is coupled to or disposed within the seat.

5. The restraint system of claim 1, wherein the inflatable bladder system comprises:

a sensor configured to collect feedback associated with the passenger, the inflatable bladder system, the ride vehicle, or a combination thereof; and

a controller configured to control adjustment of an operation of the inflatable bladder system based on the collected feedback.

6. The restraint system of claim 5, wherein the sensor comprises a heart rate sensor configured to detect a heart rate of the passenger, a pressure sensor configured to detect a pressure of the gas within the inflatable bladder of the inflatable bladder system, or both.

7. The restraint system of claim 1, comprising a rigid restraint configured to extend across the passenger to secure the passenger within the seat of the ride vehicle, wherein the soft restraint is coupled to the rigid restraint.

8. The restraint system of claim 1, comprising a plurality of straps configured to couple the soft restraint to the seat of the ride vehicle and to secure the soft restraint against the torso of the passenger.

9. The restraint system of claim 1, wherein the sensory stimulation system comprises:

a sensor configured to collect feedback associated with the passenger, the sensory stimulation system, the ride vehicle, or a combination thereof; and

a controller configured to control adjustment of an operation of the sensory stimulation system based on the collected feedback.

10. The restraint system of claim 1, comprising:

a controller configured to control adjustment of an operation of the sensory stimulation system, the inflatable bladder system, or both; and

an input device communicatively coupled to the controller, wherein the input device is configured to enable adjustment of an operation of the sensory stimulation system, the inflatable bladder system, or both, by the passenger.

11. A method for operating a ride system, comprising:

securing a passenger within a seat of a ride vehicle with a rigid restraint of the ride vehicle;

applying a soft restraint to a torso of the passenger, wherein the soft restraint is coupled to the rigid restraint;

inflating an inflatable bladder of an inflatable bladder system integrated with the soft restraint to increase contact between the soft restraint and the torso of the passenger;

biasing an effect-generating element against the torso of the passenger, wherein the effect-generating element is integrated with the soft restraint and is disposed between the inflatable bladder and the torso of the passenger;

generating a sensory effect with the effect-generating element; and

imparting the sensory effect to the torso of the passenger.

12. The method of claim 11, wherein generating the sensory effect comprises generating vibrations, heat, air flow, sound, light, or any combination thereof.

13. The method of claim 11, wherein inflating the inflatable bladder comprises filling the inflatable bladder with gas via a pump and a hose, wherein the inflatable bladder is disposed within an internal volume of the soft restraint.

14. The method of claim 11, comprising:

collecting, via a sensor, feedback associated with the passenger, the inflatable bladder system, the ride vehicle, or a combination thereof; and

adjusting operation of the inflatable bladder system based on the feedback.

15. The method of claim 11, comprising:

collecting, via a sensor, feedback associated with the passenger, the effect-generating element, the ride vehicle, or a combination thereof; and

adjusting operation of the effect-generating element based on the feedback.

16. A ride vehicle system, comprising:

a ride vehicle comprising a seat configured to accommodate a passenger;

a restraint system of the ride vehicle, wherein the restraint system comprises:

a rigid restraint configured to secure the passenger within the seat;

a soft restraint coupled to the rigid restraint, wherein the soft restraint comprises a pliable material configured extend across and conform to a torso of the passenger; and

a sensory stimulation system integrated with the soft restraint, wherein the sensory stimulation system is configured to generate sensory effects and impart the sensory effects to the torso of the passenger; and

an inflatable bladder system disposed within an internal volume of the soft restraint, wherein the inflatable bladder system is configured to inflate with a gas to bias an effect-generating component of the sensory stimulation system against the torso of the passenger; and

a controller configured to regulate operation of the sensory stimulation system, the inflatable bladder system, or both, based on sensor feedback associated with the passenger, the ride vehicle, the sensory stimulation system, the inflatable bladder system, or a combination thereof.

17. The ride vehicle system of claim 16, wherein the effect-generating component of the sensory stimulation system comprises a motor, a vibrational actuator, a thermal component, a fan, or a combination thereof.

18. The ride vehicle system of claim 16, wherein the inflatable bladder system comprises a plurality of inflatable bladders disposed within the internal volume of the soft restraint, wherein each inflatable bladder of the plurality of inflatable bladders is configured to inflate with the gas.

19. The ride vehicle system of claim 16, wherein the sensory stimulation system comprises a plurality of modules integrated with the soft restraint, wherein each module of the plurality of modules is configured to generate at least one of the sensory effects.

20. The ride vehicle system of claim 19, wherein a first module of the plurality of modules is disposed within the internal volume of the soft restraint, and wherein a second module of the plurality of modules is external to the internal volume of the soft restraint.