CLAIMS

1. A ride control system, comprising:

   a plurality of ride vehicles positioned within a course and configured to travel within the course;

   a plurality of sensors configured to obtain data relating to operation of the plurality of ride vehicles as they travel within the course, wherein the plurality of sensors include cameras configured to capture images;

   a control system configured to control operation of the plurality of ride vehicles based on the obtained data;

   a workstation including at least one interface panel configured to provide, based on the obtained data, an animated representation of positioning and movement of the plurality of ride vehicles on the course as the plurality of ride vehicles travel within the course, wherein the at least one interface panel faces an operator position for the workstation; and

   one or more panel displays positioned beyond the workstation, wherein the one or more panel displays face the operator position for the workstation, wherein the one or more panel displays are configured to present multiple views in a matrix, wherein a portion of the multiple views corresponds to camera feeds from the obtained data, wherein the control system is configured to provide a graphic indicator within a view of the portion of the multiple views based on the obtained data, and wherein the graphic indicator indicates that an image of the plurality of ride vehicles is expected within the view based on the obtained data, wherein the one or more panel displays include actuators that automatically adjust a location of the one or more panel displays based on an operator login.

2. The ride control system of claim 1, wherein the multiple views in the matrix are arranged left to right and top to bottom based on a progression of the course.

3. The ride control system of claim 1, wherein the portion of the multiple views corresponding to the camera feeds includes graphic labels of associated cameras, and wherein each graphic label comprises a symbol, shape, color, or combination thereof indicative of the associated camera.

4. The ride control system of claim 1, wherein the control system is configured to provide a first additional graphic indicator and a second additional graphic indicator within the view of the

portion of the multiple views, wherein the first additional graphic indicator is indicative of an entry location of the plurality of ride vehicles into the view, and wherein the second additional graphic indicator is indicative of an exit location of the plurality of ride vehicles out of the view.

5. The ride control system of claim 4, wherein the graphic indicator, the first additional graphic indicator, the second additional graphic indicator, or any combination thereof is rendered as translucent.

6. The ride control system of claim 4, wherein the second additional graphic indicator includes a reference to a subsequent view of the portion of the multiple views within the matrix.

7. The ride control system of claim 4, wherein the first additional graphic indicator includes a reference to a previous one of the other multiple views within the matrix.

8. The ride control system of claim 1, wherein a lowest row of the matrix is clearly visible above the at least one interface panel from the operator position.

9. The ride control system of claim 1, wherein a portion of the plurality of sensors is resident on the plurality of ride vehicles, and wherein each of the plurality of ride vehicles comprises a vehicle controller configured to interface with the control system.

10. The ride control system of claim 1, wherein the workstation and the one or more panel displays are disposed within a control room remote from the course.

11. The ride control system of claim 1, comprising a solo panel configured to display digitally superimposed images on the animated representation.

12. The ride control system of claim 11, wherein the digitally superimposed images comprise information associated with at least one ride vehicle of the plurality of ride vehicles, information associated with a particular sensor, a scene name, an architectural reference along the course, a show event name or status, or a combination thereof.

13. The ride control system of claim 11, wherein the control system is configured to store data from the plurality of sensors, the stored data including previous images from the cameras, and to display a ghosted image based on the stored data of the plurality of sensors to facilitate detection of anomalous motion.

14. A system, comprising:

a central controller communicatively coupled to a plurality of ride vehicles, wherein the plurality of ride vehicles is positioned within a course and is configured to travel within the course, and wherein each ride vehicle of the plurality of ride vehicles comprises a vehicle controller configured to control movement of the ride vehicle;

a workstation positioned in a control room;

an interface of the workstation facing an operator position of the workstation and comprising one or more interface panels configured to display an animation of the plurality of ride vehicles at expected locations along the course as the plurality of ride vehicles travels along the course, wherein the expected locations are determined based on sensor feedback; and

one or more panel displays configured to display a matrix of views providing camera feeds from cameras disposed in camera zones positioned along the course, wherein the views of the matrix are ordered left to right and up to down according to a corresponding sequence of movement of the plurality of ride vehicles traveling along the course, wherein the one or more panel displays are positioned beyond the workstation and face the operator position for the workstation;

a plurality of speakers positioned along the course and a microphone of the workstation configured to activate one or more speakers of the plurality of speakers, wherein a solo screen of the one or more interface panels is configured to display a portion of the camera feeds, wherein activation of the one or more speakers of the plurality of speakers by the microphone when the solo screen is displaying imagery from the portion of the camera feeds comprises activation of a specific speaker of the plurality of speakers associated with a specific camera feed of the portion of the camera feeds.

15. The system of claim 14, wherein the control room comprises an array wall that includes the one or more panel displays located in an unobstructed line-of-sight from the operator position for the workstation.

16. A ride control system, comprising:

a plurality of ride vehicles positioned within a course and configured to travel within the course;

a plurality of sensors configured to obtain data relating to operation of the plurality of ride vehicles as they travel within the course, wherein the plurality of sensors include cameras configured to capture images;

a control system configured to control operation of the plurality of ride vehicles based on the obtained data;

a workstation including at least one interface panel configured to provide, based on the obtained data, an animated representation of positioning and movement of the plurality of ride vehicles on the course as the plurality of ride vehicles travel within the course, wherein the at least one interface panel faces an operator position for the workstation; and

one or more panel displays positioned beyond the workstation, wherein the one or more panel displays face the operator position for the workstation, wherein the one or more panel displays are configured to present multiple views in a matrix, wherein a portion of the multiple views corresponds to camera feeds from the obtained data, wherein the control system is configured to provide a graphic indicator within a view of the portion of the multiple views based on the obtained data, and wherein the graphic indicator indicates that an image of the plurality of ride vehicles is expected within the view based on the obtained data, wherein the at least one interface panel of the workstation includes an overview panel positioned between a solo screen and a menu panel, wherein each of the overview panel, the solo screen, and the menu panel is pitched backward such that its corresponding bottom edge is adjacent a worksurface of the workstation, its corresponding upper edge is positioned away from the operator position, and its rear edge is positioned at an acute angle relative to the horizontal.