CLAIMS:

1. An operating apparatus for a vehicle characterized by comprising:

a first display (4) having a touch panel (5) and mounted on the vehicle;

a second display (3) arranged at a position higher than the first display (4) and away from a driver's seat of the vehicle compared to the first display (4);

a second display control section (2) configured to output a second image onto the second display (3);

a first display control section (110) configured to

output a first image onto the first display (4)

switch between in a first mode and in a second mode based on mode switching input from a user,

output a first mode image independent of the second image, as the first image, when the first display control section (110) is in the first mode,

output a second mode image, as the first image, the second mode image having the same external appearance as the second image, when the first display control section (110) is in the second mode; and

an input reception processing section (114) configured to execute, when the first display control section (110) is in the first mode, a first predetermined function related to the first mode image, based on operation input on the touch panel (5), and to execute, when the first display control section (110) is in the second mode, a second predetermined function related to the second image, based on the operation input on the touch panel (5), such that the first display control section (110) is configured to change the second image and the second mode image in accordance with one another.

2. The operating apparatus for the vehicle according to claim 1, wherein

the mode switching input includes predetermined input on the touch panel (5).

3. The operating apparatus for the vehicle according to claim 1 or 2, wherein

the first display control section (110) is configured to execute animation processing, the animation processing including continuous output of a composite image in which one of the first mode image and the second mode image is partially hidden by the other, over plural frame cycles, the animation processing including first animation processing, the first animation processing being executed prior to switching between the first mode and the second mode, and wherein

along with a lapse of time from a time point at which the first animation processing is started, the first display control section (110) is configured to realize one of (i) changing the composite image over the plural frame cycles and then outputting the second mode image with gradually reducing a display range of the first mode image and gradually displaying the second mode image when the first mode image is displayed before the first display control section (110) is switched between in the first mode and in the second mode, and (ii) changing the composite image over the plural frame cycles and then outputting the first mode image with gradually reducing a display range of the second mode image and gradually displaying the first mode image when the second mode image is displayed before the first display control section (110) is switched between in the first mode and in the second mode.

4. The operating apparatus for the vehicle according to claim 2, wherein

the predetermined input includes: first input accompanied with finger movement in a first direction; and second input accompanied with finger movement in a reverse direction from the first direction,

the first input causes switching from the first mode to the second mode, and the second input causes switching from the second mode to the first mode,

the first display control section (110) is configured to execute animation processing to continuously output a composite image over plural frame cycles, the composite image having: a part of the first mode image in the first direction from a boundary extending perpendicularly to the first direction; and a part of the second mode image in the reverse direction from the boundary, the boundary being on the composite image, and

the animation processing includes second animation processing to change the composite image, over the plural frame cycles, in an aspect that the boundary in the composite image moves in the first direction or the reverse direction in an interlocking manner with the finger movement in the first direction or with the finger movement in the reverse direction, on the touch panel (5).

5. The operating apparatus for the vehicle according to claim 3 or 4, wherein

the animation processing is based on: a door model or a shutter model in which the first mode image makes translational movement, within a screen of the first display (4) or out of the screen, while adopting an first aspect of a door or a shutter, the first aspect at least covering a part of the second mode image; or a roll-up-curtain model in which the second mode image is expanded within the screen or rolled up to the outside of the screen, while adopting an second aspect of a roll curtain, the second aspect at least covering a part of the first mode image.

6. The operating apparatus for the vehicle according to any one of claims 1 to 5, wherein

the first display control section (110) is configured to switch from the second mode to the first mode, when the first display control section (110) is in the second mode and the operation input is not made on the second mode image for a predetermined time or longer.

7. The operating apparatus for the vehicle according to any one of claims 1 to 6, wherein

the first display control section (110) is configured to generate the second mode image based on a video signal generated by the second display control section (2).

8. The operating apparatus for the vehicle according to any one of claims 1 to 7, wherein

the second display (3) does not have a touch panel.

9. The operating apparatus for the vehicle according to claim 4, wherein

the first direction is an up direction or a down direction in a vehicle up-down direction of the vehicle.

10. The operating apparatus for the vehicle according to claim 1, wherein

the second image includes a navigation image.