CLAIMS

1. An input device comprising:

a housing comprising a lower portion and an upper portion;

a depressible button provided in the upper portion;

a first magnetic component mounted on the depressible button and configured to move at least substantially along an axis when the depressible button is depressed;

a second magnetic component coupled to the lower portion at least substantially at the axis, wherein at least one of the first magnetic component and the second magnetic component comprises an electromagnet;

an interface configured to receive control information from a computing device external to the input device; and

a control circuit configured to control the electromagnet based on the control information;

wherein the control information activates or deactivates at least one electromagnet for a pre-determined time after activation of the depressible button.

2. The input device of claim 1,

wherein the control circuit is configured to control the electromagnet to adjust a click force of the depressible button.

3. The input device of any one of claims 1 to 2,

wherein the control circuit is configured to control the electromagnet to adjust a rebound force of the depressible button.

4. The input device of any one of claims 1 to 3,

wherein the control circuit is configured to at least one of control the electromagnet to provide a constant offset force to a click force of the depressible button, and control the electromagnet based on an activation of the depressible button.

5. The input device of any one of claims 1 to 4,

wherein the control circuit is configured to control the electromagnet to adjust a speed of returning of the depressible button to an un-depressed state before activation of the depressible button.

6. The input device of any one of claims 1 to 5,

wherein the interface is further configured to communicate user input received at the input device to the computing device.

7. The input device of any one of claims 1 to 6,

wherein the interface comprises at least one of universal serial bus or Bluetooth.

8. The input device of any one of claims 1 to 7,

wherein the control information is user-definable in the computing device.

9. A method for controlling an input device, the input device comprising a housing comprising a lower portion and an upper portion, a depressible button provided in the upper portion, a first magnetic component mounted on the depressible button and configured to move at least substantially along an axis when the depressible button is depressed, and a second magnetic component coupled to the lower portion at least substantially at the axis, wherein at least one of the first magnetic component and the second magnetic component comprises an electromagnet; the method comprising:

receiving control information from a computing device external to the input device via an interface; and

controlling the electromagnet based on the control information;

wherein the control information activates or deactivates the at least one electromagnet for a pre-determined time after activation of the depressible button.

10. The method of claim 9, further comprising:

controlling the electromagnet to adjust at least one of a click force and a rebound force, of the depressible button.

11. The method of any one of claims 9 to 10, further comprising:

controlling the electromagnet to provide a constant offset force to a click force of the depressible button.

12. The method of any one of claims 9 to 11, further comprising:

controlling the electromagnet based on an activation of the depressible button.

13. The method of any one of claims 9 to 12, further comprising:

controlling the electromagnet to adjust a speed of returning of the depressible button to an un-depressed state before activation of the depressible button.

14. The method of any one of claims 9 to 13, further comprising:

communicating user input received at the input device to the computing device via the interface.

15. The method of any one of claims 9 to 14,

wherein the interface comprises at least one of universal serial bus or Bluetooth.

16. The method of any one of claims 9 to 15,

wherein the control information is user-definable in the computing device.

17. A non-transitory computer readable medium comprising program instructions which when executed by a processor cause the processor to perform a method for controlling an input device, the input device comprising a housing comprising a lower portion and an upper portion, a depressible button provided in the upper portion, a first magnetic component mounted on the depressible button and configured to move at least substantially along an axis when the depressible button is depressed, and a second magnetic

component coupled to the lower portion at least substantially at the axis, wherein at least one of the first magnetic component and the second magnetic component comprises an electromagnet; the method comprising:

receiving control information from a computing device external to the input device via an interface; and

controlling the electromagnet based on the control information;

wherein the control information activates or deactivates at least one electromagnet for a pre-determined time after activation of the depressible button.

18. The non-transitory computer readable medium of claim 17, further comprising instructions which when executed by a processor cause the processor to perform at least one of :

controlling the electromagnet to adjust at least one of a click force and a rebound force, of the depressible button,

controlling the electromagnet to provide a constant offset force to a click force of the depressible button, and

communicating user input received at the input device to the computing device via the interface.

19. The non-transitory computer readable medium of any one of claims 17 to 18, further comprising instructions which when executed by a processor cause the processor to perform:

controlling the electromagnet based on an activation of the depressible button.

20. The non-transitory computer readable medium of any one of claims 17 to 19, further comprising instructions which when executed by a processor cause the processor to perform:

controlling the electromagnet to adjust a speed of returning of the depressible button to state before activation of the depressible button.