12. The motion detector of claim **9**, wherein the first portion of the housing is coupleable with a manipulatable accessory instead of the second portion.

13. A method of controlling an electronic device, the method comprising:

based on a magnetic field generated by a source, obtaining a coordinate of a user's hand based on the generated magnetic field; and

reflecting the obtained coordinate of the user's hand in a virtual reality environment based on a change of a location of the source due to a movement of the user.

14. The method of claim **13**, further comprising attaching the source generating a magnetic field to the virtual reality providing device,

wherein, in the obtaining of the coordinate of the user's hand, the coordinate of the user's hand is obtained based on the magnetic field generated by the attached source.

15. The method of claim **13**, wherein the reflecting of the obtained coordinate of the user's hand in the virtual reality comprises correcting the coordinate of the user's hand based on a location of the source in relation to a portion of the body of the user as a reference point, and the detected change of the location of the source due to the movement of the user.

16. The method of claim **13**, further comprising displaying the virtual reality environment having reflected therein the coordinate of the user's hand to the user.

17. The method of claim **13**, further comprising transmitting the virtual reality environment having reflected therein the coordinate of the user's hand to an external display apparatus.

18. The method of claim **13**, further comprising generating a vibration generating signal based on a coordinate of an object in the virtual reality environment and the reflected coordinate of the user's hand.

19. The method of claim **18**, wherein the generating of the vibration generating signal comprises:

calculating the coordinate of an object in the virtual reality environment;

determining whether the coordinate of the object overlaps the reflected coordinate of the user's hand within a certain range; and

generating a vibration based on a result of the determining.

20. The method of claim **13**, wherein the obtaining of the coordinate of the user's hand comprises further obtaining finger movement information regarding the user by using at least one sensor located at a side of a motion detector that obtains the coordinate of the user's hand.

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