CLAIMS

1. A method for observing a virtual item in a virtual environment, performed by a computer device, the method comprising:

displaying a first environment interface, the first environment interface comprising a picture of a virtual environment when performing rotation observation by using a first rotation axis distance, the first rotation axis distance being a distance between an observation point of a virtual object and a rotation center;

receiving a viewing angle rotation operation, the viewing angle rotation operation being configured for rotating the observation point about the rotation center;

adjusting, when an operation parameter of the viewing angle rotation operation satisfies an item observation condition, the first rotation axis distance to a second rotation axis distance by adjusting a position of the rotation center; and

displaying a second environment interface, the second environment interface comprising a picture of the virtual environment when performing rotation observation on a virtual item in the virtual environment by using the second rotation axis distance;

wherein the adjusting the first rotation axis distance to a second rotation axis distance by adjusting a position of the rotation center comprises:

determining a motion status of the virtual object;

determining an axis distance length corresponding to the motion status of the virtual object, the axis distance length being an axis distance length of the second rotation axis distance; and

adjusting the position of the rotation center according to the axis distance length, to adjust the first rotation axis distance to the second rotation axis distance;

wherein the determining an axis distance length corresponding to the motion status of the virtual object comprises:

using an axis distance length corresponding to a target status as a reference axis distance length, and determining an axis distance coefficient corresponding to the motion status and the target status of the virtual object; and

determining a product of the axis distance coefficient and the reference axis distance length as the axis distance length corresponding to the motion status of the virtual object; and

wherein the determining an axis distance coefficient corresponding to the motion status and the

target status of the virtual object comprises:

determining a personal viewing angle at which the virtual environment is observed; and

determining the axis distance coefficient corresponding to personal viewing angle and the motion status of the virtual object.

2. The method according to claim 1, wherein the motion status is any one of a driving status and a swimming status, and the target status is a standing status; and

the determining an axis distance coefficient corresponding to the motion status and the target status of the virtual object, and the determining a product of the axis distance coefficient and the reference axis distance length as the axis distance length corresponding to the motion status of the virtual object comprises:

determining, when the virtual object is in the driving status, a first axis distance coefficient corresponding to the driving status, and determining a product of the first axis distance coefficient and the reference axis distance length as an axis distance length corresponding to the driving status; or determining, when the virtual object is in the swimming status, a second axis distance coefficient corresponding to the swimming status, and determining a product of the second axis distance coefficient and the reference axis distance length as an axis distance length corresponding to the swimming status.

3. The method according to claim 1 or 2, wherein the operation parameter comprises an operation angle; and

the adjusting, when an operation parameter of the viewing angle rotation operation satisfies an item observation condition, the first rotation axis distance to a second rotation axis distance by adjusting a position of the rotation center comprises:

adjusting, when the operation angle falls within a target angle range, the first rotation axis distance to the second rotation axis distance by adjusting the position of the rotation center.

4. The method according to claim 3, wherein the operation parameter further comprises a virtual item existence status in a preset distance range of the virtual object in the virtual environment; and

the adjusting, when the operation angle falls within a target angle range, the first rotation axis distance to the second rotation axis distance by adjusting the position of the rotation center comprises:

adjusting, when the operation angle falls within the target angle range and a virtual item exists

in the preset distance range of the virtual object in the virtual environment, the first rotation axis distance to the second rotation axis distance by adjusting the position of the rotation center.

5. The method according to claim 3, wherein the virtual environment is observed by using a camera model at the observation point, and the operation parameter further comprises a rotation ending position of the camera model; and

the adjusting, when the operation angle falls within a target angle range, the first rotation axis distance to the second rotation axis distance by adjusting the position of the rotation center comprises:

adjusting, when the operation angle falls within the target angle range and the rotation ending position falls within a preset position range, the first rotation axis distance to the second rotation axis distance by adjusting the position of the rotation center.

6. An apparatus for observing a virtual item in a virtual environment, comprising:

a display module, configured to display a first environment interface, the first environment interface comprising a picture of a virtual environment when performing rotation observation by using a first rotation axis distance, the first rotation axis distance being a distance between an observation point of a virtual object and a rotation center;

a receiving module, configured to receive a viewing angle rotation operation, the viewing angle rotation operation being configured for rotating the observation point about the rotation center; and

an adjustment module, configured to adjust, when an operation parameter of the viewing angle rotation operation satisfies an item observation condition, the first rotation axis distance to a second rotation axis distance by adjusting a position of the rotation center;

the display module being further configured to display a second environment interface, the second environment interface comprising a picture of the virtual environment when performing rotation observation on a virtual item in the virtual environment by using the second rotation axis distance;

wherein the adjustment module configured to adjust the first rotation axis distance to a second rotation axis distance by adjusting a position of the rotation center is further configured to:

determine a motion status of the virtual object;

determine an axis distance length corresponding to the motion status of the virtual object, the axis distance length being an axis distance length of the second rotation axis distance; and

adjust the position of the rotation center according to the axis distance length, to adjust the first rotation axis distance to the second rotation axis distance;

wherein the adjustment module configured to determine the axis distance length corresponding to the motion status of the virtual object is further configured to:

use an axis distance length corresponding to a target status as a reference axis distance length, and determine an axis distance coefficient corresponding to the motion status and the target status of the virtual object; and

determine a product of the axis distance coefficient and the reference axis distance length as the axis distance length corresponding to the motion status of the virtual object; and

wherein the adjustment module configured to determine the axis distance coefficient corresponding to the motion status and the target status of the virtual object is further configured to:

determine a personal viewing angle at which the virtual environment is observed; and

determine the axis distance coefficient corresponding to personal viewing angle and the motion status of the virtual object.

7. A computer device includes a memory and a processor, the memory storing computer-readable instructions, the computer-readable instructions, when executed by the processor, causing the processor to perform the following operations:

displaying a first environment interface, the first environment interface comprising a picture of a virtual environment when performing rotation observation by using a first rotation axis distance, the first rotation axis distance being a distance between an observation point of a virtual object and a rotation center;

receiving a viewing angle rotation operation, the viewing angle rotation operation being configured for rotating the observation point about the rotation center;

adjusting, when an operation parameter of the viewing angle rotation operation satisfies an item observation condition, the first rotation axis distance to a second rotation axis distance by adjusting a position of the rotation center; and

displaying a second environment interface, the second environment interface comprising a picture of the virtual environment when performing rotation observation on a virtual item in the virtual environment by using the second rotation axis distance;

wherein the adjusting the first rotation axis distance to a second rotation axis distance by adjusting a position of the rotation center comprises:

determining a motion status of the virtual object;

determining an axis distance length corresponding to the motion status of the virtual object, the axis distance length being an axis distance length of the second rotation axis distance; and

adjusting the position of the rotation center according to the axis distance length, to adjust the first rotation axis distance to the second rotation axis distance;

the determining an axis distance length corresponding to the motion status of the virtual object comprises:

using an axis distance length corresponding to a target status as a reference axis distance length, and determining an axis distance coefficient corresponding to the motion status and the target status of the virtual object; and

determining a product of the axis distance coefficient and the reference axis distance length as the axis distance length corresponding to the motion status of the virtual object; and

wherein the determining an axis distance coefficient corresponding to the motion status and the target status of the virtual object comprises:

determining a personal viewing angle at which the virtual environment is observed; and

determining the axis distance coefficient corresponding to personal viewing angle and the motion status of the virtual object.

8. The computer device according to claim 7, wherein the motion status is any one of a driving status and a swimming status, and the target status is a standing status; and

the determining an axis distance coefficient corresponding to the motion status and the target status of the virtual object, and the determining a product of the axis distance coefficient and the reference axis distance length as the axis distance length corresponding to the motion status of the virtual object comprises:

determining, when the virtual object is in the driving status, a first axis distance coefficient corresponding to the driving status, and determining a product of the first axis distance coefficient and the reference axis distance length as an axis distance length corresponding to the driving status; or determining, when the virtual object is in the swimming status, a second axis distance coefficient corresponding to the swimming status, and determining a product of the second axis distance coefficient and the reference axis distance length as an axis distance length corresponding to the swimming status.

9. The computer device according to claim 7 or 8, wherein the operation parameter comprises

an operation angle; and

the adjusting, when an operation parameter of the viewing angle rotation operation satisfies an item observation condition, the first rotation axis distance to a second rotation axis distance by adjusting a position of the rotation center comprises:

adjusting, when the operation angle falls within a target angle range, the first rotation axis distance to the second rotation axis distance by adjusting the position of the rotation center.

10. The computer device according to claim 9, wherein the operation parameter further comprises a virtual item existence status in a preset distance range of the virtual object in the virtual environment; and

the adjusting, when the operation angle falls within a target angle range, the first rotation axis distance to the second rotation axis distance by adjusting the position of the rotation center comprises:

adjusting, when the operation angle falls within the target angle range and a virtual item exists in the preset distance range of the virtual object in the virtual environment, the first rotation axis distance to the second rotation axis distance by adjusting the position of the rotation center.

11. The computer device according to claim 9, wherein the virtual environment is observed by using a camera model at the observation point, and the operation parameter further comprises a rotation ending position of the camera model; and

the adjusting, when the operation angle falls within a target angle range, the first rotation axis distance to the second rotation axis distance by adjusting the position of the rotation center comprises:

adjusting, when the operation angle falls within the target angle range and the rotation ending position falls within a preset position range, the first rotation axis distance to the second rotation axis distance by adjusting the position of the rotation center.

12. One or more non-volatile storage media storing computer-readable instructions, the computer-readable instructions, when executed by one or more processors, causing the one or more processors to perform the operations in the method of any one of claims 1 to 5.