CLAIMS

1. An effect display method, comprising:

obtaining images of a captured video;

determining position information of a recognition object based on the images of the captured video, and drawing a trajectory recording image based on the position information of the recognition object;

performing superposition processing on the trajectory recording image and a preset effect material image to obtain a unit effect image, wherein the unit effect image comprises the trajectory recording image and the preset effect material image used as a background of the trajectory recording image; and

performing transformation processing on the unit effect image to obtain at least one transformed unit effect image; combining the unit effect image and the at least one transformed unit effect image to generate an effect image, and adding the effect image to the images of the captured video for display, wherein the effect image is a complete effect image obtained by combining a plurality of unit effect images.

2. The method according to claim 1, wherein the drawing a trajectory recording image based on the position information of the recognition object comprises:

creating a canvas, and drawing in the canvas circular areas at two positions corresponding to the recognition object based on the position information of the recognition object in first and second frame images of the captured video;

determining a line connecting the two positions, and determining a trajectory area based on the line, wherein a distance of each point in the trajectory area to the line is less than or equal to a radius of the circular area; and

setting transparencies of the two circular areas and the trajectory area to transparent, to obtain the trajectory recording image.

3. The method according to claim 2, wherein the determining a trajectory area based on the line comprises:

determining a point between the two positions, filtering out and drawing the point based

on a distance of the point to the line, to obtain the trajectory area, wherein an angle between a first line corresponding to the point and the line and an angle between a second line corresponding to the point and the line are both acute angles, and the first line and the second line are lines respectively connecting the point and the two positions.

4. The method according to claim 1, wherein the superposition processing is used to replace a background of the trajectory recording image with the effect material image.

5. The method according to claim 1, wherein the transformation processing comprises a first transformation operation or a second transformation operation, wherein the first transformation operation comprises a replication operation and a mirroring operation, and the second transformation operation comprises a rotation operation and a moving operation.

6. The method according to claim 5, wherein a transformation parameter corresponding to the transformation processing is adjustable, and the transformation parameter comprises at least one of replication times corresponding to the replication operation, a rotation angle corresponding to the rotation operation, an image position, and an image size.

7. The method according to claim 1, further comprising:

displaying the unit effect image in real-time on the images of the captured video in a process of drawing the trajectory recording image.

8. The method according to claim 7, wherein the displaying the unit effect image in real-time in a process of drawing the trajectory recording image comprises:

setting transparency of other areas in the effect image except the unit effect image to transparent in the process of drawing the trajectory recording image, to obtain an effect image to be displayed; and

superposing the effect image to be displayed on the images of the captured video for display.

9. The method according to claim 1, wherein the adding the effect image to the images of the captured video for display comprises:

adding the effect image to the images of the captured video in a set animation mode for display, after the trajectory recording image is drawn.

10. The method according to claim 1, wherein the recognition object is a preset part of a human face, and the effect image is an effect image of paper-cut.

11. An effect display apparatus, comprising:

an image obtaining module configured to obtain images of a captured video;

a trajectory recording module configured to determine position information of a recognition object based on the images of the captured video, and draw a trajectory recording image based on the position information of the recognition object;

a first effect module configured to perform superposition processing on the trajectory recording image and a preset effect material image to obtain a unit effect image, wherein the unit effect image comprises the trajectory recording image and the preset effect material image used as a background of the trajectory recording image; and

a second effect module configured to perform transformation processing on the unit effect image to obtain at least one transformed unit effect image; combining the unit effect image and the at least one transformed unit effect image to generate an effect image, and add the effect image to the images of the captured video for display, wherein the effect image is a complete effect image obtained by combining a plurality of unit effect images.

12. An electronic device, comprising:

a processor; and

a memory for storing instructions executable by the processor;

wherein the processor is configured to read the instructions from the memory and execute the instructions to implement the effect display method according to any one of claims 1 to 10.

13. A computer readable storage medium, wherein the computer readable storage medium stores a computer program for performing the effect display method according to any one of claims 1 to 10.

14. A computer program product, wherein the computer program product, when running on a computer, causes the computer to perform the effect display method according to any one of claims 1 to 10.