CLAIMS

1. An image data distribution method applied to a terminal, comprising:

generating a surface texture instance for processing information acquired by an image acquisition means;

generating an image acquisition means instance corresponding to the image acquisition means;

binding the image acquisition means instance with the surface texture instance;

generating image data, by the surface texture instance processing the information acquired by the image acquisition means; and

acquiring the image data in an interface callback manner by using the image acquisition means instance, and distributing the image data to an application and/or a page instance; wherein:

the distributing the image data to an application and/or a page instance comprises:

judging whether an image data distribution interface of the application and/or the page instance is registered in the image acquisition means instance, wherein the image data distribution interface is used for realizing callback distribution of the image data and providing an image distribution method; and

distributing the image data to the corresponding application

and/or the page instance, by the image acquisition means instance performing callback on the image distribution method , if the image data distribution interface of the application and/or the page instance is registered in the image acquisition means instance;

the image data distribution method further comprises:

the application and/or the page instance receives the image data distributed by the image acquisition means instance by performing callback on the image distribution method, and performs processing based on the image data; and

the application comprises: a video preview application, a face recognition application, a video recording application, and a quick response (QR) code scanning application; and the performing processing based on the image data comprises:

the video preview application performing video interface rendering based on the image data; the face recognition application inputting the image data into a face recognition software development kit (SDK) for processing, and performing face recognition processing based on a processing result; the video recording application performing video recording based on the image data; and the QR code scanning application performing QR code identification processing based on the image data.

2. The image data distribution method according to claim 1, wherein the acquiring the image data in an interface callback

manner by using the image acquisition means instance comprises:

creating an image acquisition callback interface in the image acquisition means instance, wherein the image acquisition callback interface is used for realizing callback transmission of the image data and providing an image data transmission method;

providing the image acquisition callback interface to the surface texture instance; and

receiving the image data sent by the surface texture instance by performing callback on the image data transmission method, by using the image acquisition means instance.

3. The image data distribution method according to claim 1, wherein the generating a surface texture instance for processing information acquired by an image acquisition means comprises:

creating a texture instance by using OpenGL ES; and

generating the surface texture instance by using the texture instance.

4. The image data distribution method according to claim 1, wherein the generating an image acquisition means instance corresponding to the image acquisition means comprises:

judging whether the image acquisition means is started; and

generating the image acquisition means instance, if it is determined that the image acquisition means is started.

5. The image data distribution method according to claim 1, wherein the binding the image acquisition means instance with the surface texture instance comprises:

judging whether the surface texture instance is generated;

providing the surface texture instance to the image acquisition means instance, if it is determined that the surface texture instance is generated, wherein the image acquisition means instance, by taking the surface texture instance as a call parameter, realizes the binding with the surface texture instance.

6. The image data distribution method according to any of claims 1 to 5, wherein

the image acquisition means comprises: a camera; and the image data comprises: video streaming data.

7. An image data distribution apparatus applied to a terminal, comprising:

a texture instance generation module configured to generate a surface texture instance for processing information acquired by an image acquisition means;

a means instance generation module configured to generate an image acquisition means instance corresponding to the image acquisition means;

an instance binding processing module configured to bind the image acquisition means instance with the surface texture instance;

an image data generation module configured to generate image data, by the surface texture instance processing the information acquired by the image acquisition means; and

an image data distribution module configured to acquire the image data in an interface callback manner by using the image acquisition means instance, and distribute the image data to an application and/or a page instance; wherein:

the image data distribution module comprises:

a callback distribution unit configured to judge whether an image data distribution interface of the application and/or the page instance is registered in the image acquisition means instance, wherein the image data distribution interface is used for realizing callback distribution of the image data and providing an image distribution method; and distribute the image data to the corresponding application and/or the page instance, by the image acquisition means instance performing callback on the image distribution method, if the image data distribution interface of the application and/or the page instance is registered in the image acquisition means instance;

the application and/or the page instance receives the image data distributed by the image acquisition means instance by

performing callback on the image distribution method, and performs processing based on the image data; and

the application comprises: a video preview application, a face recognition application, a video recording application, and a quick response (QR) code scanning application; and processing performed based on the image data comprises:

the video preview application performs video interface rendering based on the image data; the face recognition application inputs the image data into a face recognition software development kit (SDK) for processing, and performs face recognition processing based on a processing result; the video recording application performs video recording based on the image data; and the QR code scanning application performs QR code identification processing based on the image data.

8. The image data distribution apparatus according to claim 7, wherein

the image data distribution module comprises:

an interface callback unit configured to create an image acquisition callback interface in the image acquisition means instance, wherein the image acquisition callback interface is used for realizing callback transmission of the image data and providing an image data transmission method; provide the image acquisition callback interface to the surface texture instance; and by using

the image acquisition means instance, receive the image data sent by the surface texture instance by performing callback on the image data transmission method.

9. The image data distribution apparatus according to claim 7, wherein

the texture instance generation module is specifically configured to create a texture instance by using OpenGL ES; and generate the surface texture instance by using the texture instance.

10. The image data distribution apparatus according to claim 7, wherein

the means instance generation module is specifically configured to judge whether the image acquisition means is started; and generate the image acquisition means instance, if it is determined that the image acquisition means is started.

11. The image data distribution apparatus according to claim 7, wherein

the instance binding processing module is specifically configured to judge whether the surface texture instance is generated; and provide the surface texture instance to the image acquisition means instance, if it is determined that the surface

texture instance is generated, wherein the image acquisition means instance, by taking the surface texture instance as a call parameter, realizes the binding with the surface texture instance.

12. An image data distribution apparatus applied to a terminal, comprising:

a memory; and a processor coupled to the memory, the processor being configured to perform, based on instructions stored in the memory, the method according to any of claims 1 to 6.

13. A terminal, comprising:

the image data distribution apparatus according to any of claims 7 to 12.

14. A computer-readable storage medium having thereon stored computer instructions which, when executed by a processor, implement the method according to any of claims 1 to 6.