

ABSTRACT

The present application provides a method and device for constructing a projection image. The method for constructing a projection image comprises: performing projection on an equirectangular panoramic image with a cylindrical surface equal-area projection model to obtain a cylindrical surface equal-area projection image; obtaining a two-dimensional coordinate of each of pixels in the cylindrical surface equal-area projection image; obtaining a two-dimensional coordinate in the equirectangular panoramic image corresponding to each of pixels in the cylindrical surface equal-area projection image; performing pixel interpolation on the cylindrical surface equal-area projection image based on color information of each of pixels in the equirectangular panoramic image and the obtained two-dimensional coordinate in the equirectangular panoramic image corresponding to each of pixels in the cylindrical surface equal-area projection image to generate a panoramic image subjected to the cylindrical surface equal-area projection transformation. The resolution and bit rate of the panoramic image or video can be reduced by the method of the present application.