

ABSTRACT

Influences of physiological stereoscopic elements are removed by image processing using projection transformation. A horopter-plane image projection unit 311 is designed to project a non-stereo image supplied via a signal line 129 onto a cylindrical plane (horopter plane) including a horopter circle. The size of the horopter circle is specified using, for example, the radius as horopter circle information. Additionally, the relationship with two eyes is specified by the interocular distance. A display surface right-eye projection unit 316 is designed to project an image projected on the horopter plane onto a display surface for the right eye. A display surface left-eye projection unit 317 is designed to project the image projected on the horopter plane onto a display surface for the left eye. Therefore, retinal images that are identical to each other are supplied to the two eyes to remove influences of physiological stereoscopic elements, and stereoscopic depth is given.