

New product information

Large screen smart glasses 3D display of robot and endoscopic surgery imagesHeadband method

"Smart glasses "

Product name "3D View Vision for Medical HMD "

Model name 3D.V.V-HMD



FA System Engineering Co., Ltd. (1-26 Kitafujiwaramachi, Matsuyama City, Ehime Prefecture, President Yasunori Nakamura) displays images of robot-assisted surgery and endoscopic surgery on a large screen image. Smart glass type head mount with 3D headband method. Display H / M / D product name "3D View Vision for Medical H / M / D" will begin shipping around the end of May.

This unit is a glasses-type display that is used by wearing it on the head using a headband method. The screen size is displayed in 57-inch high-resolution 3D at a distance of 2 m, and the operation is performed in a free posture by looking at this image using a glass panel. Taking advantage of the characteristics of the organic EL panel, it is equipped with two glass panels (1980 x 1080 for one eye, 3840 x 1080 for both eyes) for the left eye and the right eye to display 3D images, and it makes the eyes stressed, which is said to be a drawback of 3D images. Depth information is displayed so that cross-talk can be eliminated and more natural stereoscopic vision can be observed. It is designed so that the eyes do not feel stress even during long-term surgery. In addition, the surgical field can be visually observed from the gap between the eye and the lens, and a wide field of view is provided so that external communication can be freely performed unlike the goggles method such as VR.

The smart glasses that have been sold in the past have a problem that the angle of view is small and the eyeglass frame method is heavy. By improving the 3D angle of view and improving the heavy weight from the glasses frame method to the headband method, the doctor can operate more comfortably.

The headband type is used, and the total weight including the headband is about 260g, so that the operation can be performed in any posture and the burden on the neck is eliminated. In addition, the field of view can be seen larger than the lower part of the display surface.

The glasses 2D / 3D display that is displayed from the headband is a 3-axis viewpoint adjustment arm that allows you to freely adjust the head frame attachment part and the eye viewpoint adjustment.

The left / right / upside down display of the image, switching of 2D / 3D image, brightness adjustment, etc. can be set with normal PC original software.

[Features]

- 1. With a large 3D screen angle of view, it can withstand long-term surgery with high-definition images.
- 2. Free external communication with a light headband system
- 3. 3D images with more natural and beautiful image quality by eliminating left-right parallax
- 4. Surgery is possible with direct real-time display without delay
- 5. Viewpoint adjustment is freely adjustable

[Price]: Open price

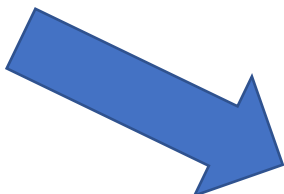
[Shipping time]: Around the end of May 2021

[Reference photo]



Visually
Wide field of view

Traditional 3D Smart GLASS (HMD)



New product 3D View Vision



New product 3D View Vision

[Detailed specifications]

Model	3DV.V-HMD
resolution	One eye: 1980 x 1080 Binocular 3840 x 1080
Screen size	2m ahead 57 inches (40 degrees diagonal viewing angle)
contrast	10.000: 1
frame rate	60Hz
Input cable	Type C / HDMI
3D mode	Side by Side
External dimensions	Glasses part 124 x 42 x 30 mm
weight	Headband method

