A virtual retinal display is a small headgear-mounted device. When mounted on eyeglasses, it creates an image directly onto the retina of a viewer's eye. From a coherent photon source, the device generates a beam of light to project the image. Intensity modulation is done with the beam to match the image being produced and then it is directly projected onto the retina. The image is formed by scanning low power laser light directly onto the eye (retina). The prime advantages of Virtual Retinal Displays are low power consumption, improvement in resolution, brightness, contrast, color, etc. and wide range of view.

The overall market can be segmented into components of VRD as well as end user application. In this report, the components of VRD are Video Electronics, Light Source and Modulator, Scanners, Pupil Expander, Viewer Optics, Holographic Optical Element, etc. VRD has a widespread range of potential applications such as Medical, Radiology, Surgery, Therapeutics, Productions, Communication, Augmented/Virtual Reality, Aerospace, Military, Gaming, Training and Development, etc.

The market is also analyzed based on geographic regions which are grouped into Americas, APAC, Europe as well as RoW regions. North America is expected to be the largest market of Virtual Retinal Display. In APAC, countries like Japan, Taiwan, South Korea, etc. are the major market of VRD. By 2021, there will be increase of this market in European and ROW countries.

The necessity of virtual environments and augmented visions are the prime driving factors of the use of Virtual Retinal Display. Other driving factors are demand of higher resolution, higher contrast, increased luminance and bright images.

The top companies manufacturing the virtual retinal display are Avegant Corporation (U.S.A.), Brother Industries Ltd. (Japan), Sony Corp. (Japan), HTC Corp. (Taiwan), Oculus RV, LLC., etc.

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