

Dimenco: 52" Glasses-free 3D Display

Written by Bob Snyder
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Remember that glasses-free 3D technology that Philips closed? Dimenco is an independent company based in Veldhoven (near the Philips Mecca of Eindhoven) founded by four young Dutch folks that all worked together at a former venture on 3D autostereoscopic technology. Dimenco also acquired a 3D technology license from Philips, enabling them to commercially use and further develop this technology.

Dimenco with a solutions partner, **Triaxes Vision**, provided a total solution for an immersive glasses-free 3D video experience during NAB. Triaxes Vision is up-and-coming software company that solves the challenges in 2D+Depth content preparation.

Current 3D technologies use 2 video channels (L&R) that is enough for glasses-type 3D. To get a realistic glasses-free 3D effect, films will have to be shot from up to 8 and more different positions, making next-gen content preparation complicated in terms of production and editing. Depth maps offer the solution to this problem by generating the number of channels required.

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With depth map technology, 3D output can be generated for both glasses and glasses-free equipment.

Until now, 3D auto-stereoscopic (glasses-free) displays were only used in professional industries, such as advertising, visualization, and interactive applications. The reasons why lenticular displays aren't widely adopted in consumer applications is the loss of 3D resolution and the difficulty to prepare the input content of the appropriate format.

Dimenco and Triaxes Vision solve these drawbacks with their solution. By introducing their new 52", Dimenco is able to show a proven 3D auto-stereoscopic display. Inside the display Dimenco's rendering core enables the display to use the 2D+Depth as an input format to reach significant results. The Dimenco control tool enables the user to adapt the enables the user to adapt the required viewing distance, amount of depth, offset and all in real-time.

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