iGlass AR, the Next Generation 4K Quality Giant Screen Non-immersive XR Glasses On-The-Go

iGlass USA inc, a technology company in Silicon Valley, announces it completed the development of its $299, 130g ultra-light, palm-sized small iGlass AR glasses

MILPITAS, CALIF., USA, January 3, 2019 /EINPresswire.com/ -- iGlass USA inc announces it will demonstrate its sub-$300 high performance AR glasses at CES 2019, targeting consumer market related applications. iGlass USA inc claims its iGlass AR glasses are the very first Mobile AR Theater product in the United States, and the very first Mobile Phone Tethered AR Theater product in the world.

Question: What is iGlass?
iGlass is the next generation 4K Quality Giant Screen Non-immersive XR Glasses On-The-Go, with a 30-foot giant screen size, folded in a 130-gram palm-sized glasses form factor, with significantly improved comfortability.

From a ergonomic perspective, since human nose can not support weight more than 30g for an extended period of time, iGlass distributes its 130g light-weight evenly on the forehead, like a hat, zero pressure on nose and face. It is very comfortable to wear, even a 6-year old kid can wear iGlass comfortably for a long time . And iGlass fit daily prescription glasses underneath easily, very convenient.

iGlass is designed for providing mobile non-immersive GIANT SCREEN for Smart Phones, Gaming Consoles like Nintendo Switch, for young generations' TV and Movie Theater replacement in college dorm and at home, and for non-immersive mobile entertainment on-the-go, on Airplane, Train, Bus or passenger seats of Car, etc.

iGlass USA inc believe the success of AR largely lays on the existing of a simple plug-and-play device that lets a novice user engage casually, similar to the approach that Nintendo wanted its Switch to create a device that could play "leisurely" video games along games that are aimed to be played "deeply". iGlass USA inc wanted its iGlass to provide a "leisurely, non-immersive" GIANT SCREEN entertainment experience, on-the-go or at home.

iGlass is affordable, small, light-weight (130g body, 40g USB-C cable) and provide 30-foot gigantic high quality screen: you can see the darkened environment directly, thus safe and do not anti-social, which makes iGlass unique and suitable for user cases on-the-go.

From an image quality perspective, iGlass delivers professional level super sharp and vivid image quality, small font text reading ready.

From an easy to use perspective, iGlass is a simple plug and play device. No device / user specific calibration nor content preprocessing necessary. iGlass can directly play your downloaded 2D/3D Video files on your phone or your PC, and you can live stream YouTube content too. iGlass has vast amount of content already in exist thus do not need to work on content ourselves.

From a privacy protection perspective, iGlass not only protect the wearer's privacy but also

protect other people around the wearer's privacy as well: iGlass project the image into the wearer's retina, so the wearer is the only perosn who can see the 30-feet virtual semi-transparent screen. Also, to make iGlass suitable for out of home public space use, iGlass have NO cameras on it, so it will not invade other people's privacy in public space.

From a broader technology perspective, iGlass is a generic ultra-affordable, 4K image quality, Giant-screen Transparent 3D Display Technology. iGlass technology is with wide application across many sectors, from entertainment, gaming, education, medical application, to industrial application, it even enables flying drones while watching the view from sky, etc.

The professional image quality at consumer price, simple plug and play nature, and dual-directional privacy protection make iGlass a very unique device, differentiate it from other AR devices currently in exists (i.e., Microsoft HoloLens, Magic Leap One, etc.), of which all need device specific content generating/rendering/calibration, and their multiple cameras/trackers limited them to business user cases only, not really for typical consumer user cases with other people around.

Question: What is iGlass Core Technology?

iGlass Core tech is its "Small form-factor, Ultra-light weight, Professional Image Quality, Giant-Screen, Semi-Transparent Dual-eye 3D Projection System".

From a fundamental display technology perspective, iGlass use its “off-axis” optical see-through dual-eye projection system, which put the light source out of your view, on top of your forehead. The light reflect off a pair of curved transparent lens to you eye. This arrangement allows you seeing the digital content while seeing the real environment directly. And you can easily balance how much digital/real content you want to see by control the transparent lens coating.

Question: How is iGlass' Off-Axis AR Imaging tech Comparing to Waveguide tech?

Comparing to wave-guide based AR glasses (i.e., Lumus, HoloLens, Magic Leap One, etc), iGlass AR solved the Three Major Problems wave-guide AR display systems have in common: 1) The small FOV (Limited by TIR Law of Physics), 2) The non-uniform color (Limited by Angular efficiency Law of Physics), 3) The ultra-expensive manufacturing cost (due to Law of Physics limitation also).

iGlass' screen size many times than wave-guide based systems. iGlass delivers professional image quality with vivid and accurate color. iGlass' BOM (bill of materials) is only a few percent of the competing waveguide AR display tech.

Question: How is iGlass' Off-Axis AR Imaging tech Comparing to Traditional Free-Form Optics?

Traditional Free-Form AR systems all have three fundamental problems: 1) The relatively low image quality of the optical system (i.e., only able to read large font, not sharp enough for reading detailed small font texts like an email text at a comfortable reading distance), 2) The super close-by image (screen is about 1 to 2 feet away, images right in-front of the wearer's eye), 3) The huge size of optical engine.

iGlass dual-eye off-axis projection system solved these problems. Comparing to traditional free-form optical systems, iGlass’ image is super sharp, small text reading ready. iGlass' image distance is rather far away at about 10-meter, which is even further than Microsoft HoloLens’ 6-feet image distance. And iGlass is super-small and ultra-lightweight, at palm-size and 130g body weight.

Question: How can I learn more about iGlass?

In this 1.2 million people watched Video, Linus Tech Tips provided a detailed introduction on iGlass. You can read more about iGlass

Question: I like iGlass, how can I help on bringing iGlass to the Hands of Consumer, Faster?

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