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Bellus3D Launches ARC 3D Face Scanning Solution at CES 2020

New 3D multi-camera system captures lifelike 3D face in under three seconds

Campbell, California – (December 18, 2019) -- Bellus3D, Inc. a Silicon Valley startup formed by leading computer vision experts, is launching Bellus3D ARC, a revolutionary multi-camera 3D face scanning solution that captures commercial grade, full 3D face scan with the click of a single button in less than three seconds. The unique system provides near instant capture with no moving parts and requires no movement by the subject. Bellus3D ARC is a configurable arrangement of up to seven ARC smart depth-sensing WiFI cameras. Bellus3D ARC was developed in response to the market demand by a wide variety of industries that require facial measurements for a personalized and custom product fit. Initial target markets for the ARC solution include dental, eyewear, cosmetics, medical, virtual and augmented reality, and gaming. At CES 2020, ARC will be demonstrated using the seven-camera configuration providing full-head scans of all attendees visiting their booth.

Bellus3D ARC is the first mobile, multi-camera, 3D capturing system that can be used without the need of an operator. The system consists of a Windows-based host device and a configurable array of 3D vision cameras arranged in a semicircular arc surrounding a subject’s head. Each ARC 3D vision camera contains a high-res RGB sensor and IR sensors with a structured light projector, and an embedded mobile processor running on Android OS. The cameras capture and process data in parallel from different camera angles and send the data wirelessly to the host device. The host device merges data from all cameras to generate a full head model in a few seconds

using Bellus3D patented proprietary face scanning software. The Bellus3D ARC system can be configured as a four camera system for face-only capture or expanded up to a seven camera configuration for full head capture. The included configuration mounting frame incorporates a standard VESA mount for easy mounting on industry standard armatures and desktop stands. The ARC camera is also available as a single-camera solution, which requires the user to to turn their head during scanning as with the previous generation of Bellus3D face scanning cameras.

A Windows developer API is provided to allow third-party developers to create innovative apps that require high-quality 3D face scans.The API uses a WebSocket interface to enable developers to quickly and easily incorporate Bellus ARC 3D face scans into their products and services using web-based programming languages, such as Javascript.

“The ARC solution is the next step in the goal of Bellus3D which is to allow product companies to bring a high level of personalization to their products by ensuring they fit the exact contours of the human face. There is no other solution available that can deliver such a high quality face scan in seconds with the click of a single button,” said Eric Chen, CEO of Bellus3D, Inc.

The company is demonstrating the power and ease of use of the ARC solution by providing free 3D face scans to interested CES attendees.

Bellus3D ARC will be available for developers in Q1, 2020. ARC multi-camera configurations start at under $2,500.

About Bellus3D, Inc.

Bellus3D (https://www.bellus3d.com) is the innovative leader in high-resolution 3D face scanning designed for mobile platforms.

More information about Bellus3D products: https://www.bellus3d.com

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