NCTech Unveils New 3D Virtual Reality Camera

NCTech, a developer of reality imaging systems, has unveiled new reality capture products at the SPAR 3D Expo and Conference earlier this week. The new developments are designed to put professional-grade reality capture into the hands of both technical and non-technical users, lowering the barriers to adoption of user-created virtual reality content.

The LASiris VR is a 3D reality capture camera that combines vivid 120MP HDR imagery with a 100-metre range Lidar scanner, seamlessly blending high quality 360 imaging with colourised point cloud output for 3D visualisation.

Reality capture

LASiris VR is relevant in sectors already using terrestrial laser scanning technology, such as surveying, engineering and construction, but is also intended for those looking for simple and economical access to reality capture, particularly for applications involving virtual reality, augmented reality, and mixed reality.

Easily controlled via an app from any smartphone or tablet, LASiris VR is suitable for any market where the capture of true 3D reality content is desirable. For example facilities management, where asset owners, facilities and project managers can easily collect their own realistic, as-built visualisations of a site, and stockpile measurement, where its simple operation means in-house staff can capture their own point-cloud and calculate volume.

Democratisation of virtual reality

The democratisation of virtual reality comes from being able to visualise and dimension your own real-world space – they have created the LASiris VR to provide a long-range, high-quality solution, to capture real-world spaces for 3D visualisation, said Neil Tocher, CTO, NCTech. With this new camera we are offering 3D capture capability with high visual quality, and suitable for providing a good understanding of scale and dimension.

The company is also showing the latest version of its 360-degree camera – the iris360 Pro is the latest version of the iris360 product line and is NCTech's highest resolution one-shot system to date, using precision optics to capture 10 bit true HDR panoramic images at a resolution of 90MP.

Cloud-based VR data

With a new alloy interlocked cage internal structure, iris360 Pro features a rigid core with a unique anti-slip outer skin, offering full protection for companies that incorporate 360-degree imaging into their business. iris360 Pro incorporates the Open Spherical Camera API, giving developers complete control of the system.

In support of its new VR cameras, NCTech is also launching a new cloud-based platform for backing-up, processing, and sharing VR data. onestopvr.com harnesses the pure processing power of Google Compute Engine's exceptional infrastructure capabilities, combined with Intel's advanced hardware. Using onestopvr.com, point cloud data and images uploaded to the cloud are automatically mapped precisely to the depth data, delivering automatically colourised point clouds.