

Leica Cyclone & SpheronLite panoramic camera

Ultimate HDR colourised point clouds



Easy data acquisition

On-site the Spheron SceneCam captures 360° high dynamic range images with all levels of light in a scene. It handles complex light conditions from the darkest shadows to the brightest sunlight for indoor or outdoor scenarios. With no previous photographic knowledge required anyone can create HDR images of highest resolution and unmatched geometrical correctness.

SpheriCAL workflow

With the SpheronLite camera system, Leica Geosystems and SpheronVR offer the ultimate solution for High Dynamic Range (HDR) imaging for 3D point clouds. Leica ScanStation scan data is easily colour mapped in Leica Cyclone software with panoramic images of highest quality and resolution taken with the SpheronVR SceneCam camera.

Automated Cyclone processing

Post-processing in Leica Cyclone offers automated alignment of scan and image data including batch import and tone map editing. Users can take advantage of the same data excellence in Leica Geosystems' CloudWorx and TruView software packages through a seamless data workflow.

Product specifications



SpheriCAL workflow

The SpheronLite system enables a SpheronVR camera and Leica ScanStation combination workflow. It creates the ultimate HDR spherical colour for a 3D point cloud data set.

The solution consists of a SceneCam camera device for full spherical HDR imaging. With one-click control the camera is operated from a lightweight touchscreen tablet which attaches directly to any survey tripod and provides live preview of the image acquisition.

Parallax effects between laser geometry and camera colour are minimised by two dedicated precision mounts, which ensure perfect alignment between the nodal point of the laser scanner and the camera.

Requiring no image stitching, the complete scene from 'floor to ceiling' is captured automatically in one precise, continuous rotation around the vertical axis. This results in a geometrically accurate image with no image distortion issues.

RESOLUTION

- SceneCam® resolution of 100 MP (full spherical image @ DSLR fill-factor)

DYNAMIC RANGE

- High Dynamic Range (HDR) with up to 26 f-stops of dynamic range

OPTICS

- Fisheye Lens (Nikon 16mm f/2.8D). Individually calibrated for the compensation of spherical distortion, vignetting and chromatic aberration. Providing unlimited view 360° x 180°.

TRIPOD

- Custom designed tripod attachment arm with integrated touchscreen / battery holders, easily mounted onto any survey style tripod. A tribrach adapter is also included allowing a Leica ScanStation to be height matched to a SceneCam.

CAMERA OPERATION

- Intuitive one-click touchscreen SceneCam (c) operation software presented on a lightweight 10" touchscreen tablet

TRANSPORT CASE

- One robust and water proof transport Pelicase for camera, tablet and accessories

OPERATING TIME

- SceneCam operates more than 8 hours with one battery pack

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P30/P40**



**Leica ScanStation
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