

SceneCam® Scanlight



Highest Image Quality even in darkest Nights

› **Objectivity**

accurate documentation, even at low-, or no-light conditions, by a directional and homogeneous lighting of the scan-zone.

› **Accelerated scan speed**

by a bright and narrow focused white light LED illumination.

› **Ease of use**

by Plug & Play functionality. Scanlight attaches to SceneCam® within seconds.

› **Mobile use**

by most efficient use of battery power. Operates 2 hours on one battery pack.

› **Reliability**

by ruggedized housing and fully sealed off design.



SceneCam® Solution with Scanlight

Precisely illuminates the scan-zone in low light conditions



SceneCam® Scanlight in a tunnel, 450 meters underground in the Äspö Hard Rock Laboratory .



Typical image result, obtained with SceneCam® Scanlight.

SceneCam® Scanlight

A powerful lighting solution for perfect illumination on scene – providing complete independence from actual light conditions.

Challenges

Capturing full spherical images under low light conditions can result in an increase of the scan time. Additional lights may be used, but the common approaches usually require heavy batteries or even generators; some types of light appear in the full spherical image or cast unwanted shadows.

Operation

The SceneCam® Scanlight attaches directly to the camera's sensor head. During the scan, the Scanlight rotates together with the SceneCam® around the vertical axis, while its precisely focused quad-column LED array illuminates almost only the actual scanning direction. As a result, valuable battery power is saved and mobile operation time is increased.

Quality

Spherical image quality is optimized as LED induced effects (like intensity variations due to varying LED efficiency and/or LED aging) are minimized: each LED used is factory qualified and selected in its color temperature, its light output is individually referenced on equal intensity and constantly regulated during operation.

Flexibility

The compact and low weight design of the complete solution, with only the three tripod legs touching the ground, enables spherical image capturing even in smallest places.

Technical Details

Technology	Stripe light source with 40 focused, 3 rd generation white light LED's.
Illumination quality	Each LED is factory calibrated and constantly regulated (>10.000 times/sec.) in it's optical intensity; LED aging induced image striping is minimized. Color temperature is 6.500 K.
Power supply	Two working modes are supported: wall plug operation with a wide range input (100-230 V) or battery operation using rechargeable Li-Ion packs (14.4 V / 126 Wh, no memory effect, four level capacity indicator).
Operating time	The SceneCam® Scanlight operates >120 minutes on one battery pack (scope of supply is two battery packs).
Weather proof	Ruggedized anodized aluminium housing with additional, sealed LED protection. Temperature range: -10°C to +50°C. Relative humidity: 10% to 90%, non condensing. No fans necessary due to efficient light usage and optimized thermal layout.
Mobile use	Light weight: 1,5 kg (3.3 lbs). Snap-on and lock mechanism with quick release. One robust and water proof case (Peli 1520), carries and protects SceneCam® Scanlight, one battery charger/wall plug power supply, two batteries, cable and all accessories.

