EinScan-SP 3D Scanner

3D Scanner

Tool Type: 3D Scanner
Location: Elings 3430
Description: 3D Scanner
Manufacturer: EinScan

Last updated 1/5/23 Haley

About

The SHINNG3D EinScan-SP 3D Scanner is located in 3430. Please ask staff to help you set it up if you wish to use this tool. A part can be placed on the central turn table, which will rotate as the scanner projects light onto the object being scanned. Transparent, reflective, or very dark surfaces are inherently difficult to scan, but coating the surface with powder may aid the quality of the scan. Calibration of the 3D scanner can aid in scan accuracy and should be done before scanning the first object.

Safety Concerns

- Do not look directly into the scanners light projector.
- Do not interfere with turntable or part while scanner is working

Operating Procedures

1. Follow the instructions to calibrate the scanner
2. Create a new project and designate file location
3. Select desired texture mode (texture uses color data whereas non texture takes less time)
4. Adjust brightness slider to properly expose image
5. Select desired scanning mode (turntable or tripod are standard)
6. Start Scan
7. After scan completion using shift + left click to remove extraneous data
8. Correct any misalignment using the align and shift + left click to select coincident points
9. Select mesh to convert to mesh body

10. Select watertight to create closed object or unwatertight to edit object file
11. Select desired simplification ratio (to reduce processor stress) and file type (.STL, .OBJ, .PLY, .3MF, or .ASC)

Detailed Specifications

Part Volume Requirements: must be larger than 30 x 30 x 30 mm and no larger than 250 x 250 x 250 mm
Part Weight Requirements: must be less than 5 kg
Scan Resolution: .17-.2 mm

Reference Documentation

EinScan SOP

einscan-sp_guidebook.pdf

sp-user_manual.pdf

https://www.youtube.com/watch?v=nnU-WNGqDRI&list=PLtJFjqd-EnwvqeVq8h7Jw1bTtG8a0VwQB&index=3&t=0s

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