

Information Technology Broadcasting and Telecommunications >> Computer Equipment and Accessories >> computer data input devices >> 3D Laser Scanner

Specifications:

Name	Type	Restrictions	Unit	Properties
Group: Hand Held Colour Scanner				
1. Minimum Range	Enumerable	0.5 m or better	N/A	Mandatory
2. Maximum Range	Enumerable	3 m or better	N/A	Mandatory
3. Resolution @ 0 point 5m Depth	Enumerable	0.2mm or better	N/A	Mandatory
4. 3D point accuracy/whole scan accuracy	Enumerable	better than 2 mm	N/A	Mandatory
5. Typical lateral accuracy	Enumerable	better than 1mm	N/A	Mandatory
6. Single image point density	Enumerable	Up to 45,000 points/m ² in 0.5m distance	N/A	Mandatory
7. Recorded 3D points	Enumerable	Up to 88,000 points/s, point cloud density increases with time	N/A	Mandatory
8. Typical Noise (rms)	Enumerable	0,7mm @ 0,5m distance	N/A	Mandatory
9. Eye safety	Enumerable	Class 1 laser	N/A	Mandatory
10. Lighting conditions	Enumerable	Up to 10,000 Lux	N/A	Mandatory
11. Light source	Enumerable	In built LED flash	N/A	Mandatory
12. Scan volume	Enumerable	more than 8.0m ³	N/A	Mandatory
13. Exposure time	Enumerable	0.02ms - 10ms (autoexposure)	N/A	Mandatory
14. Connectivity	Enumerable	USB 3.0	N/A	Mandatory
15. Calibration	Enumerable	Optional in-field user calibration with supplied calibration plate	N/A	Mandatory
Group: Software				
1. Stitching of individual scans together automatically and manually	Enumerable	Yes	N/A	Mandatory
2. Meshing of Pointcloud data	Enumerable	Yes	N/A	Mandatory
3. Export of PCD	Enumerable	in .e57, .ptx, .pts, .pod, .xyz	N/A	Mandatory
4. Export of mesh	Enumerable	in .stl, .obj	N/A	Mandatory
5. VR Mode for viewing data in VR Device like Oculus Rift, HTC Vive	Enumerable	Yes	N/A	Mandatory
6. Visualization of Pointcloud data in 2D & 3D	Enumerable	Yes	N/A	Mandatory

Group: Generic				
1. BIS Registration under CRS of Meity	Enumerable	Yes	N/A	Mandatory
2. BIS Registration Number and its validity hint: Must Indicate	Text	N/A	N/A	Mandatory
3. Other Certifications Available	Enumerable	UL, CE, FCC, RoHS	N/A	Mandatory
4. Overall Dimensions (mm x mm x mm) hint: Must Indicate	Text	N/A	N/A	Mandatory
5. Overall Weight (Grams) hint: Must Indicate	Numeric	Any value	N/A	Mandatory
6. Minimum Operating Temperature (Degree C)	Numeric	>=-20	N/A	Mandatory
7. Maximum Operating Temperature (Degree C)	Numeric	40 - 70	N/A	Mandatory
8. Minimum Operating Humidity (% RH)	Numeric	20 - 40	N/A	Mandatory
9. Maximum Operating Humidity (% RH)	Numeric	60 - 95	N/A	Mandatory
10. Warranty (Year)	Numeric	1, 2, 3	N/A	Mandatory,Filter,Golden