

Comparison for FJD Trion S1&Geoslam ZEB Horizon

No.	Content	FJD Trion S1		Geoslam ZEB Horizon	
1	Scanning distance	120m	It can collect 3D point cloud data of large scenes, and obtain data from both indoor and outdoor distances. The longer the range, the more the product can scan the scene, the better it uses its senses. The more feature point clouds scanned at the same time, the more beneficial data stitching.	100m	Large scene 3D point cloud data acquisition, indoor and outdoor distant data can be obtained, but the core parameters of 3D scanner is accuracy, points, and ranging, almost all have obvious differences.
2	Wave length	905nm	The longer the wavelength, the longer the scanning distance, and the richer the application scenario of the product. At the same time, the longer the wavelength, the stronger the anti-interference ability of the light wave, the less noise is scanned.	903nm	The shorter the wavelength, the higher the precision of the product. However, the smaller the near-infrared band is and the closer it is to the visible light wave, the more it will be affected by the visible light wave. At the same time, the closer to the visible band, the higher the harm to the human eye.
3	Battery life	4h	It can be operated continuously for a long time, and because it supports hot swap, it will not be interrupted by battery problems. When one battery is dead, it can be directly removed for charging, and the other battery can continue to supply power for data collection.	3H	Short working time and supports only one battery at a time. When the battery is dead, stop working and replace the battery.
4	Cloud points quantity/sec	320000 point/sec	The more the number of point clouds, the better the effect of the scanned object. The original principle of point cloud measurement is to fit the real situation of the scanned object through countless points, so the more point clouds, the better the	300000 point/sec	The number of point clouds is slightly less, does not affect the use, but certainly the detail richness will be slightly worse.

			fitting situation.		
5	Horizontal angular resolution	0.36°	The smaller the angular resolution, the smaller the distance between the two points, and the more detailed the object being measured.	0.38°	The Angle is slightly larger, the detail reaction ability is slightly less, but does not affect the use.
6	Data Processing	Real time	The scanned data can be checked on site to find out the problems in the scanning process in advance, and the unsolvable data can be scanned on site, which does not affect the project duration.	Post Processing	Point clouds cannot be obtained after scanning is completed, so part of the on-site time needs to be sacrificed for data processing, which makes it inconvenient to work when the project schedule is tight or the collection time is specified.
7	Cost performance	Higher	The price is very low, most of the important basic functions of the customer can be completed, cost-effective.	Lower	The price is very high, the basic features are good, but it is not a good deal compared to the cost