

MSCAN Photogrammetry System Technical Proposal

1. Instruction

Hangzhou Scantech Co., Ltd is a high-tech enterprise which was composed of industry experts, returnees Doctors and high-tech youth talents. It located in Zhejiang overseas high-level talent innovation park. Hangzhou Scantech mainly engaged in the developing, manufacturing and selling of the intelligent visual inspection equipment such as portable 3D scanner and 2D laser sensor. Leading by the returnees Doctors, the R&D team developed a series of mechanical and electronic products which possess the proprietary intellectual property rights. The portable 3D scanner, global photography measurement system and 2D laser sensor are also the foremost equipment in the country. These products have been widely used in colleges, research institutions, automobile industry, large-scale machinery enterprise and modeling design company, and have enjoy great reputation in the market.



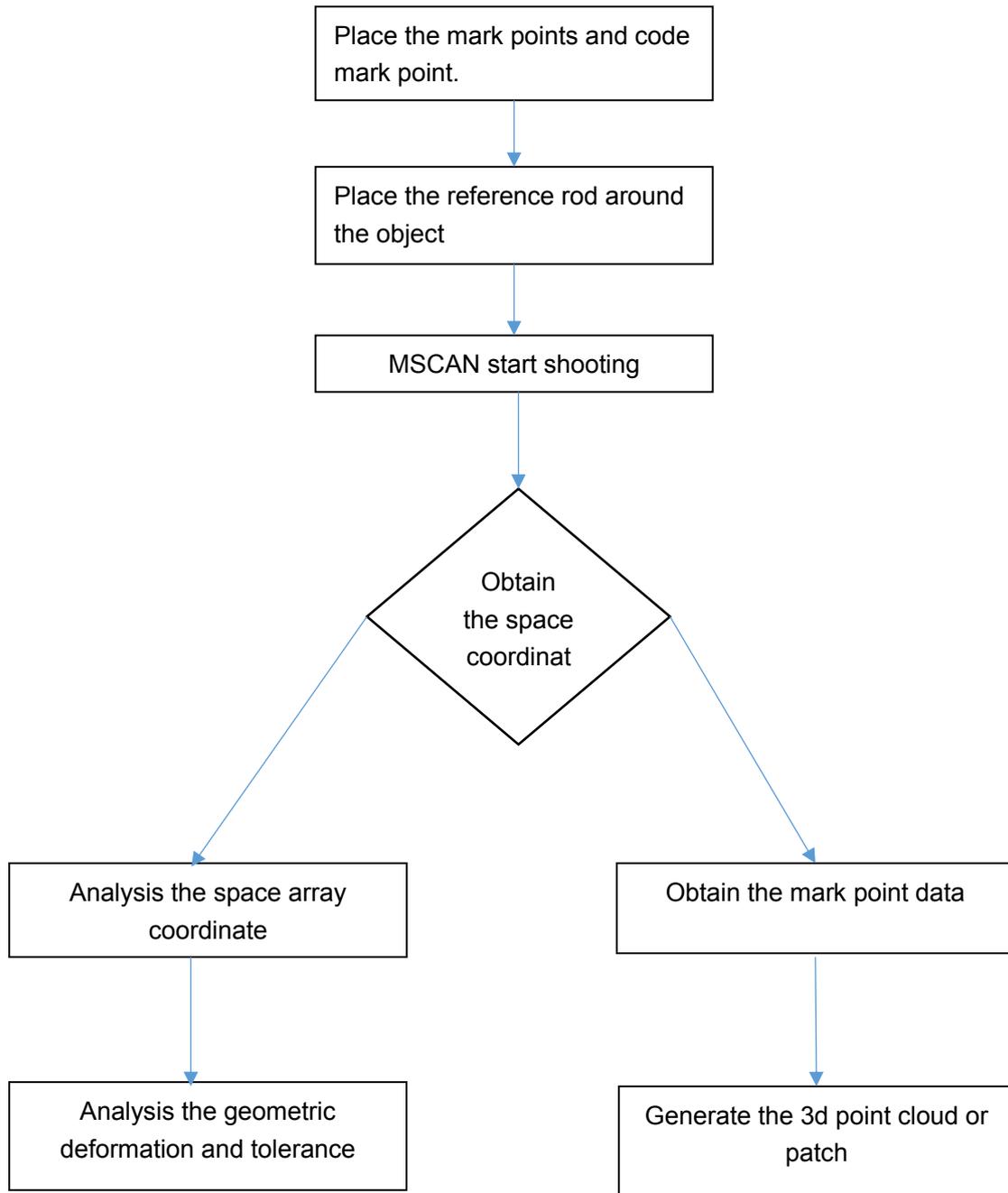
2. Product instruction

2.1 Work Principle

The MSCAN global photography measurement system using high resolution camera to shoot some 2d images and iterate it, calculate the 3d coordinate value and obtain the 3d data and 3d coordinate.

The MSCAN usually be used in measuring and positioning the large objects. The MSCAN can work with the HSCAN to decrease the accumulative error. And it can also work individual to measure the dimension and geometric deformation of the large objects.

2.2 Workflow



2.3 Technical parameter

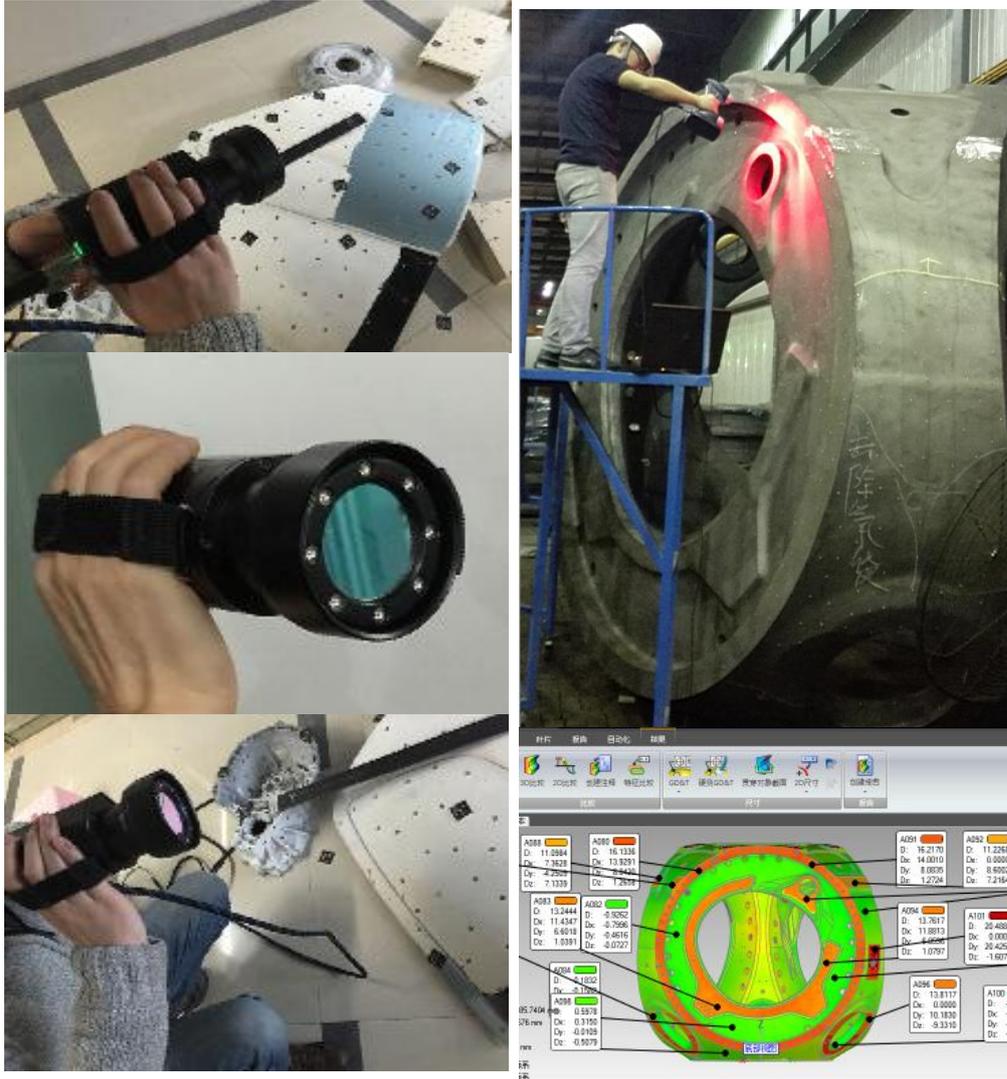
| | |
|------------------------------|---------------------------------------|
| Type | MSCAN |
| Volumetric accuracy | 0.02mm+0.025mm/m |
| ★ Device type | Industrial camera and lens (not DSLR) |
| ★ Weight | ≤0.5 kg |
| ★ Obtain mark point position | Real-time calculate and display |
| ★ Data Transmission Mode | wired connection |
| ★ Interface mode | Gigabit Lan |

2.4 Supply scope

| Compose | Quantity |
|------------------------------|-------------|
| MSCAN | 1 set |
| High precision reference rod | 2 pieces |
| Combination cable | 1 piece |
| Power adapter | 1 set |
| magnetic coding | 300 pieces |
| Reflective marker | 4000 pieces |
| Waterproof case | 1 set |
| MSCAN soft ware | 1 set |



2.5 Application cases





工件全览



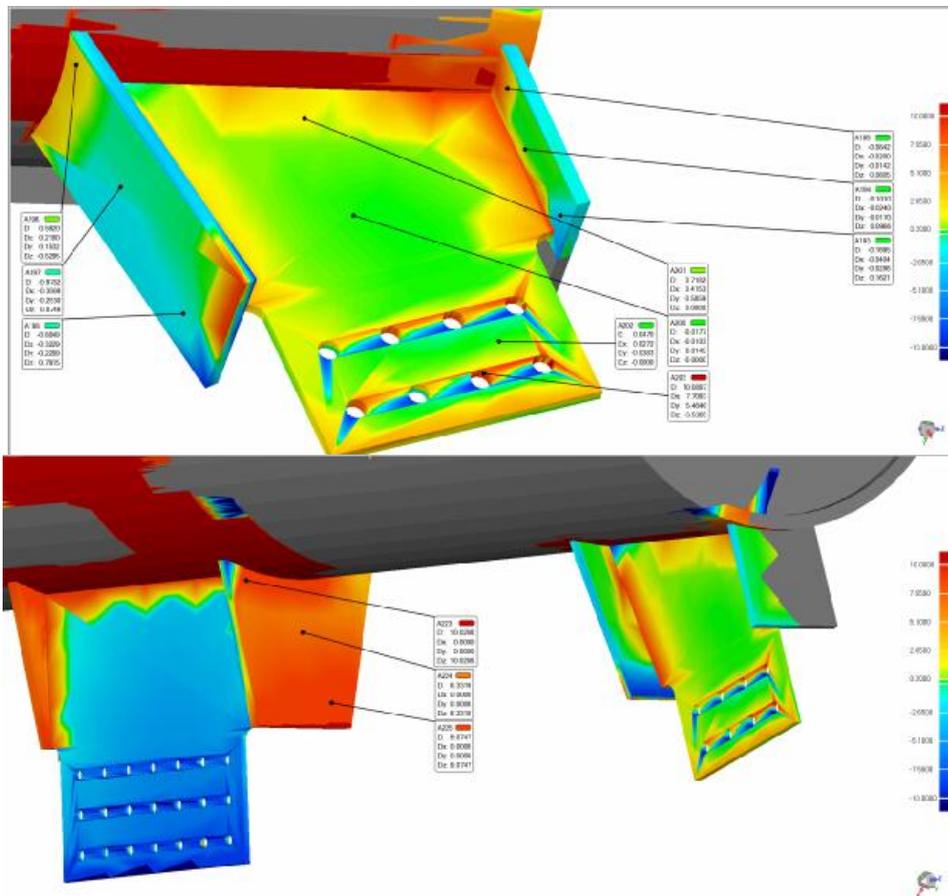
放置标杆及编码点



手持仪器三维扫描



全局定位



MSCAN

Photogrammetry System

Used for large scale workpiece

