表1采集的20幅图像的基准坐标值与估测坐标值的比较（单位：cm）

|  |  |  |  |
| --- | --- | --- | --- |
| 图像序号 | 基准坐标值 | 估测坐标值 | 误差 |
| 1 | (-1,16,-227) | (25,3,-213) | (26,-13,14) |
| 2 | (-1,16,-227) | (25,8,-227) | (26,-8,0) |
| 3 | (-1,8,-227) | (18,2,-220) | (19,-6,7) |
| 4 | (-1,-8,-227) | (17,4,-227) | (18,-4,0) |
| 5 | (-1,8,-227) | (15,5,-217) | (16,-3,10) |
| 6 | (-1,14,-227) | (23,1,-228) | (24,-13,-1) |
| 7 | (-1,16,-227) | (28,-1,-225) | (29,-17,2) |
| 8 | (-1,2,-227) | (14,2,-227) | (15,0,0) |
| 9 | (-1,-26,-209) | (16,3,-216) | (17,29,-7) |
| 10 | (0,2,-208) | (16,-2,-208) | (16,-4,0) |
| 11 | (-1,-3,-198) | (16,6,-191) | (17,9,7) |
| 12 | (-1,11,-198) | (21,6,-193) | (22,-5,5) |
| 13 | (-1,21,-198) | (18,6,-195) | (19,-5,3) |
| 14 | (4,21,-183) | (19,4,-184) | (5,-17,-1) |
| 15 | (4,23,-183) | (15,-6,-182) | (11,-29,-1) |
| 16 | (4,-8,-183) | (13,8,-180) | (9,16,3) |
| 17 | (4,-12,-183) | (20,-7,-182) | (16,5,1) |
| 18 | (4,8,-160) | (20,2,-158) | (16,-6,2) |
| 19 | (4,17,-160) | (16,-8,-155) | (12,-25,5) |
| 20 | (4,28,-160) | (20,22,-164) | (16,-6,-4) |

表2 采集的20幅图像的基准姿态角与估测姿态角的比较（单位：度）

|  |  |  |  |
| --- | --- | --- | --- |
| 图像序号 | 基准姿态角 | 估测姿态角 | 误差 |
| 1 | (0,0,-90) | (8.7,23.2,-91.2) | (8.7,23.2,-1.2) |
| 2 | (0,0,-110.5) | (-8.1,-6.2,-111.1) | (-8.1,-6.2,-0.6) |
| 3 | (0,0,-90) | (-13.9,-10.6,-91.4) | (13.9,-10.6,-1.4) |
| 4 | (0,0,-107.5) | (-8.8,-8.1,-108.1) | (-8.8,-8.1,-0.6) |
| 5 | (0,0,-123.1) | (1.0,18.0,-122.8) | (1.0,18.0,0.3) |
| 6 | (0,0,-85.9) | (-10.5,0.5,-86.1) | (-10.5,0.5,-0.2) |
| 7 | (0,0,-80.0) | (-2.6,-7.8,-81.1) | (-2.6,-7.8,-1.1) |
| 8 | (0,0,-77.1) | (5.9,-0.9,-77.1) | (5.9,-0.9,0) |
| 9 | (0,-7.4,-122.6) | (-1.0,-7.6,-122.4) | (-1.0,-0.2,0.2) |
| 10 | (0,0,-77.2) | (-17.7,1.3,-77.3) | (-17.7,1.3,-0.1) |
| 11 | (0,-3.2,-127.4) | (4.8,18.9,-127.8) | (4.8,22.1,-0.4) |
| 12 | (0,0,-112.0) | (7.5,15.8,-112.5) | (7.5,15.8,-0.5) |
| 13 | (0,-1,-120) | (-10.8,-13.0,-121.0) | (-10.8,-12.0,-1.0) |
| 14 | (0,2.9,-119.5) | (-10.3,-9.2,-120.1) | (-10.3,-12.1,-0.6) |
| 15 | (0,1.3,-80) | (-14.9,-0.6,-80.0) | (14.9,-1.9,0) |
| 16 | (0,0,-147.5) | (-2.4,-15.5,-146.7) | (-2.4,-15.5,0.8) |
| 17 | (-2.3,0,-78.0) | (-16.6,3.0,-77.7) | (-14.3,3.0,0.3) |
| 18 | (0,0,-116.2) | (-11.9,-9.6,-117.0) | (-11.9,-9.6,-0.8) |
| 19 | (0,3.9,-78.3) | (10.9,12.7,-79.2) | (10.9,8.8,-0.9) |
| 20 | (0,4.8,-121.1) | (-2.5,0.2,-121.2) | (-2.5,-4.6,-0.1) |