



Point Cloud Format Detail

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1. SDK 输出的点云格式为从当前帧的第一个 pixel 至最后一个 pixel 的 X,Y,Z 值, 以 float 型输出, 单位是 mm, 说明如下:

Vzense SDK outputs the point cloud from the first pixel of the frame to the end pixel, X,Y,Z value in order. The data format is in float, unit mm.

Pixel[0] (float, mm)			Pixel[1] (float, mm)			.....			Pixel[N-1] (float, mm)			Pixel[N] (float, mm)		
X0	Y0	Z0	X1	Y1	Z1	...	...	...	Xn-1	Yn-1	Zn-1	Xn	Yn	Zn

2. uTool 保存的.txt 格式点云图, 从上到下行依次为 pixel 0 至最后一个 pixel, 每一行的数值依次为该 pixel 的 X,Y,Z 值说明如下:

The .txt point cloud file saved by the uTool, the data format is shown as below:

```
*00000001.txt - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)
X      Y      Z
-277.208 -212.568 538 --- Pixel 0
-275.836 -212.172 537 --- Pixel 1
-274.98  -212.172 537 --- Pixel 2
-274.123 -212.172 537
-272.757 -211.777 536
-271.902 -211.777 536
-270.036 -210.987 534
-269.184 -210.987 534
-267.327 -210.197 532
-266.979 -210.592 533
-266.129 -210.592 533
-266.274 -211.382 535
-265.42  -211.382 535
-267.534 -213.753 541
-266.671 -213.753 541
-265.808 -213.753 541
-268.863 -216.914 549
-267.987 -216.914 549
-270.03  -219.284 555
-269.145 -219.284 555
-268.259 -219.284 555
-266.411 -218.494 553
-265.528 -218.494 553
```

3. 可通过 CloudCompare 工具来查看保存下来的点云图, 下载链接为:

You can review the point cloud .txt by CloudCompare tool, please see below download link:

<http://www.cloudcompare.org/release/index.html#CloudCompare>