



FJ DYNAMICS
丰疆智能

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3DGS Quick Start

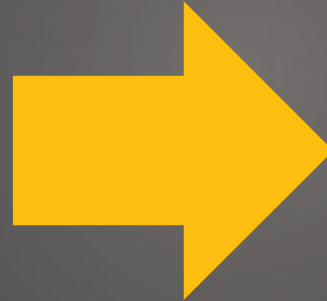
丰疆智能基础研发部

Camera lens checking

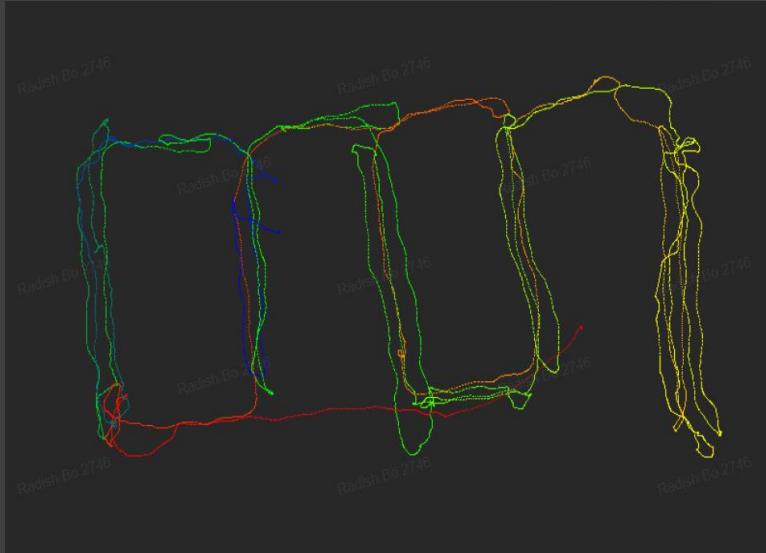


- (1) Cleaning the camera lens using **glasses cloth** before demonstration
- (2) Avoid touching the lens which **left fingerprint on the lens**

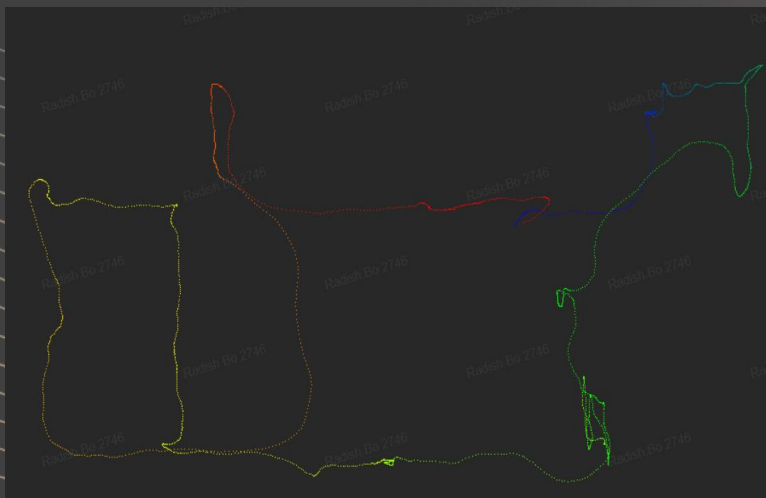
Capture area of camera



Route planning



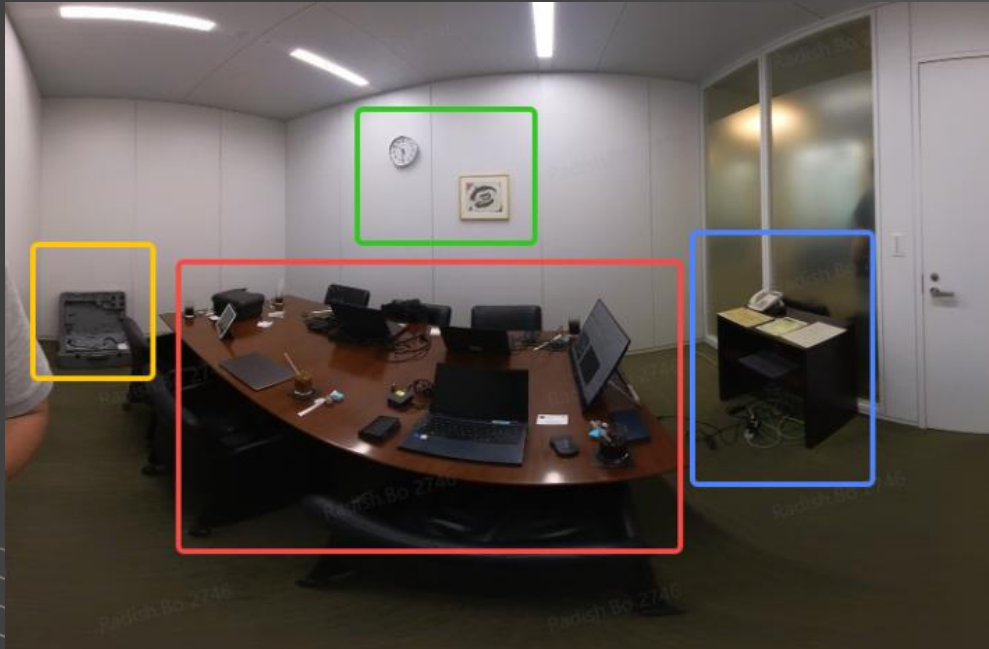
Start with a coarse scan
as framework, then
filling the area
adjacent to the route by
a fine scan



- (1) **Cross-pattern;**
- (2) **Back-and-forth;**
- (3) **Multi-view;**



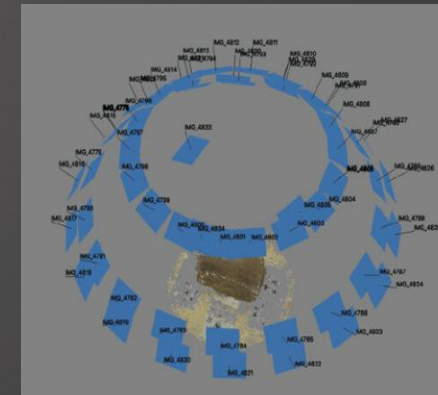
Route planning



Separate the scene into different region according to it' s feature



Plan a **tic-tac-toe path** to capture the object on walls, e.g. texts and paintings



Circulate the object with complex geometry e.g. sculpture with different angle of depression

Points to consider in environment



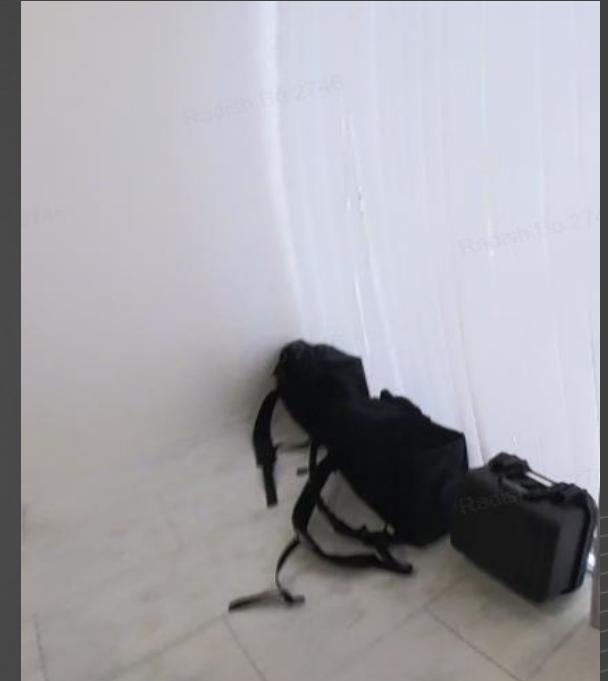
Avoid moving objects in the scene as much as possible. Since it may cause feature points recognition error.



Conducting the scan in **overcast** environment, to avoid color differences within single scan



Settle the **objects** that may **vary** in the scan, e.g. curtain, monitor, door, cables

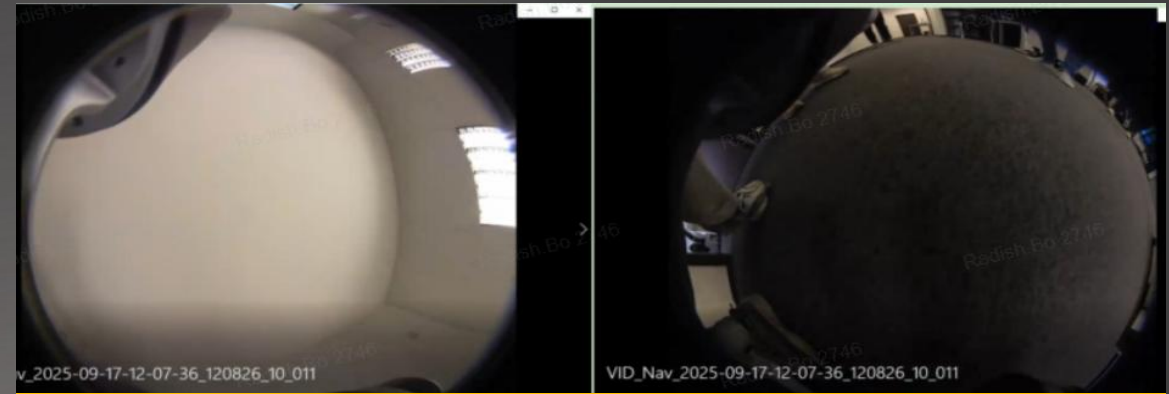


Put **belongings** at places with low feature points

Points to consider during scanning



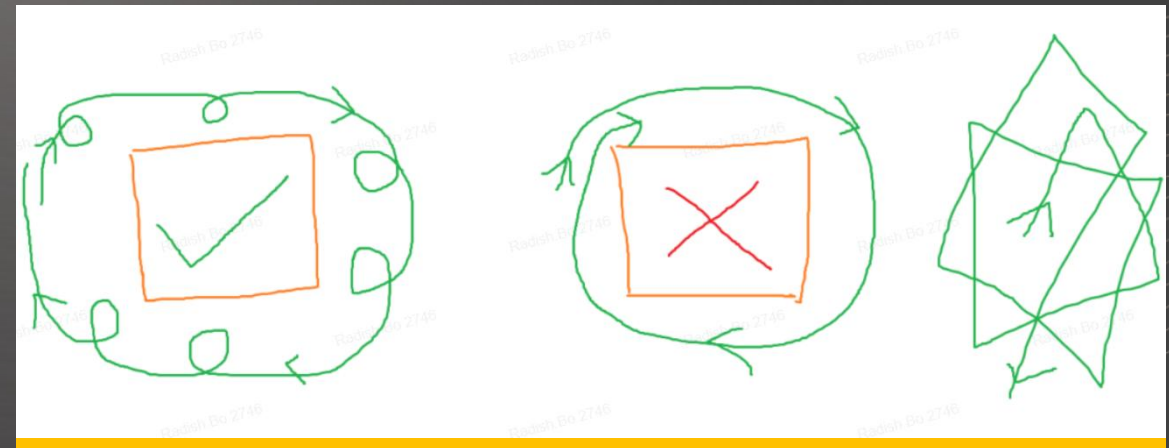
Avoid turning and moving too fast that causes the motion blur



Avoid shooting scenes with no features (no color difference), which may cause error in later camera pose calculation



Avoid staying close to wall, which may lose feature point to perform image matching



Conduct loop-closure. Small loop closure while scanning with **P2/S2** to let camera on both side relates.



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Please refer to the checklist before scanning