

## 1.Files

- (1).Dist -----The directory of installation package(support python3).
- (2). Script ----- The directory of python test scripts
- (3).vcredist\_x64.exe----- VS2019 runtime library, If the msvcr140.dll is lost, double-click to install it
- 2. Python runtime environment configuration
  - (1).Install Python3 64-bit, URL: Python (http://python.org/download/)
  - (2).Install the test Seeker module
  - 1) Go to the Dist directory and perform the following operations. The following uses Windows X64-bit as an example
  - a) Installing the packages

    pip install nokovpy-2.0.1-py3-none-any.whl
  - 2) Test module, go to Script directory
    - 1) Run python seeker\_sdk\_client. py, Change the IP address of XINGYING to be connected as required, for example: python Seeker SDK Client.py -s 10.1.1.198
    - 2) Using the Python interpreter, type the relevant Python commands, as described in the function definitions and comments in nokovsdk.py under the Python package installation path, 例如 C:\Users\Administrat or\.pyenv\pyenv-win\versions\3.9.6\Lib\site-packages\nokov\nokovsdk.p y, see also the Seeker SDK Client.py script.



## 2.Demo test

- (1).Set the PC IP address to 10.1.1.198 and subnet mask to 255.255.255.0. Disable the firewall and network blocking software.
  - (2).Run XINGYING motion capture software as an administrator.
- (3).Select the data broadcast interface, select "NIC Address", and then check "Setting", "SDK Enabled".XINGYING sends motion capture data, the local and other computers can receive data.
  - (4).In live mode, click run;Or, in post-process mode, play back data.
- (5).After configuring the Python runtime environment according to the ins tructions, double-click the seeker sdk client. py script to receive SDK data.

Note: In post-process mode, you need to close the client receiver before swit ching.

## 3.Data instructions

- (1). The coordinate system is right-handed.
- (2). For the Marker defined in Markerset, due to software operation problems, Marker occlusion and other reasons, the X, Y and Z coordinate values will be filled with 9999999.000000 when points are lost or cannot be identified.
- (3). For Skeleton Builder, Rx, Ry, Rz may exceed 360 degrees during the move ment of the skeleton, e.g., for two rotations, the rotation Angle is 720 degree s.



- (4). Euler Angle rotation order, see Markerset Properties = > Rotation Order, the default rotation order is ZYX.
- (5). Bone axis orientation, see Markerset Properties = Bone Axis, the default bone axis is positive in the Y direction.
- (6). The six-degree-of-freedom information of the skeleton refers to the transl ation and rotation of the skeleton relative to the parent segment. When creat ing a Markerset, the skeleton defined by default is relative to the geodetic co ordinate system.