Communication Commands

5xxx 5xxx 5xxx 5xxx 5xxx 5xxx xxxx xx

Axis6 axis5 axis4 axis3/z axis2/y axis1/x speed command

01: Linear move by certain offsets of x, y, z

Eg. 5000 5000 5000 5100 5200 4700 0100 01以100mm/s的速度相对现在位置x移动100，y移动200，z移动-300，前三个数字无所谓

02: Joint move by certain offsets of all 6 axis

Eg. 4990 4980 4970 5060 5070 5080 0010 02以10degree/s的速度六个轴相对现在位置分别移动-10，-20，-30，60，70，80度

03: Linear move to a specified position defined by x, y, z

Eg. 5000 5000 5000 5100 5200 5300 0100 03以100mm/s的速度移动到（100，200，300），前三个数字无所谓

04: Joint move to a specified pose defined by 6 angles of axis

Eg. 4990 4980 4970 5060 5070 5080 0010 04以10degree/s的速度六个轴分别移动到（-10，-20，-30，60，70，80）

05: Linear jogging in a specified direction (x or y or z)

Eg. 5000 5000 5000 5100 5000 5000 0100 05 向z正方向jogging

Eg. 5000 5000 5000 5000 5000 4900 0100 05 向x负方向jogging

06: Move to a specified position defined by x and y, 10cm over the table surface

Eg. 5000 5000 5000 5000 5200 5300 0100 06 以100mm/s的速度移动到桌面十厘米以上的（200，300）位置， 前四个数字无所谓

07: Joint jogging for a specified axis in either clockwise of counter-clockwise direction

Eg. 5100 5000 5000 5000 5000 5000 0100 07 第六个轴（喷嘴）向正方向jogging

Eg. 5000 5000 5000 5000 5000 4900 0100 07 第一个轴（底座）向负方向jogging

08: Active specified frame (global frame, table frame, conveyor frame or camera frame)

Frame number:

0. global frame

1. table frame

2. conveyor frame

3. table camera frame

4. conveyor camera frame

(输入其他数字均默认为global frame)

Eg. 5000 5000 5000 5000 5000 5000 0001 08 启动table frame，速度number则为framenumber，前六个数字无所谓

Eg. 5000 5000 5000 5000 5000 5000 0004 08 启动conveyor camera frame

09: Pause robot movement controlled by GUI

Eg. 5000 5000 5000 5000 5000 5000 0000 09 只要command是09则停止机器，前七个数字无所谓

10: Resume robot movement from a Pause command

Eg. 5000 5000 5000 5000 5000 5000 0000 10 只要command是10则恢复机器，前七个数字无所谓， 恢复机器之前所有command都disabled。

11: Turn on or turn off vacuum pump by inputting 1 or 0

Eg. 5000 5000 5000 5000 5000 5000 0000 11 停止pump

Eg. 5000 5000 5000 5000 5000 5000 0001 11 开动pump

前六个数字无所谓

12: Control vacuum solenoid

Eg. 5000 5000 5000 5000 5000 5000 0000 12 停止solenoid

Eg. 5000 5000 5000 5000 5000 5000 0001 12 开动solenoid

前六个数字无所谓

13: Turn on or turn off conveyor by inputting 1 or 0

Eg. 5000 5000 5000 5000 5000 5000 0000 13 停止conveyor

Eg. 5000 5000 5000 5000 5000 5000 0001 13 开动conveyor

前六个数字无所谓

14: Control conveyor direction by inputting 1 or 0

Eg. 5000 5000 5000 5000 5000 5000 0000 14 设定conveyor方向1

Eg. 5000 5000 5000 5000 5000 5000 0001 14 设定conveyor方向2

前六个数字无所谓