

Robotic arm environment build reference

Installation Environment Construction of Eye to hand Automatic Grabbing Manipulator

Reading object:
Customers who need to use Obi Zhongguang Femto series cameras and Gemini series cameras to build the installation environment of mechanical watches;

1. List of items:

Serial number	Item Name	Remarks
1	3D camera	Optional Obi Zhongguang Femto series cameras: including Femto Mega ,Femto Bolt ,Femto Mega I camera; Select Gemini series cameras: Gemini 2 series cameras; Gemini 330 series cameras
2	Assist mechanical arm	Recommend selection of UR to assist mechanical watch, model UR3 ,UR5 ,UR10 and so on
3	Control computer	Optional x86 pc; NVIDIA NVIDIA Jetson Orin NX and above
4	Base	Used to install fixed mechanical arm;
5	Camera bracket	For fixed mounting 3D camera
6	Electric clamp	For grasping objects

7	Sucker	Suction cups, vacuum generators and air compressors need to be used together; Suction Cup, vacuum generator selection; Air compressor according to the suction cup selection of appropriate
8	Vacuum generator	
9	Air compressor	
10	Several network cables	RJ 45 Ethernet network cable; Used to connect the camera and the robot arm controller
11	Grab several objects	According to the requirements of the scene, a number of objects to be captured need to be prepared, which can be parts, other packaging products, etc.
12	Material box	Used to place the picked item
13	Material box table	For placing the bin; Different mechanical arms have different requirements for the height of the material box and the mechanical plate. UR requirements

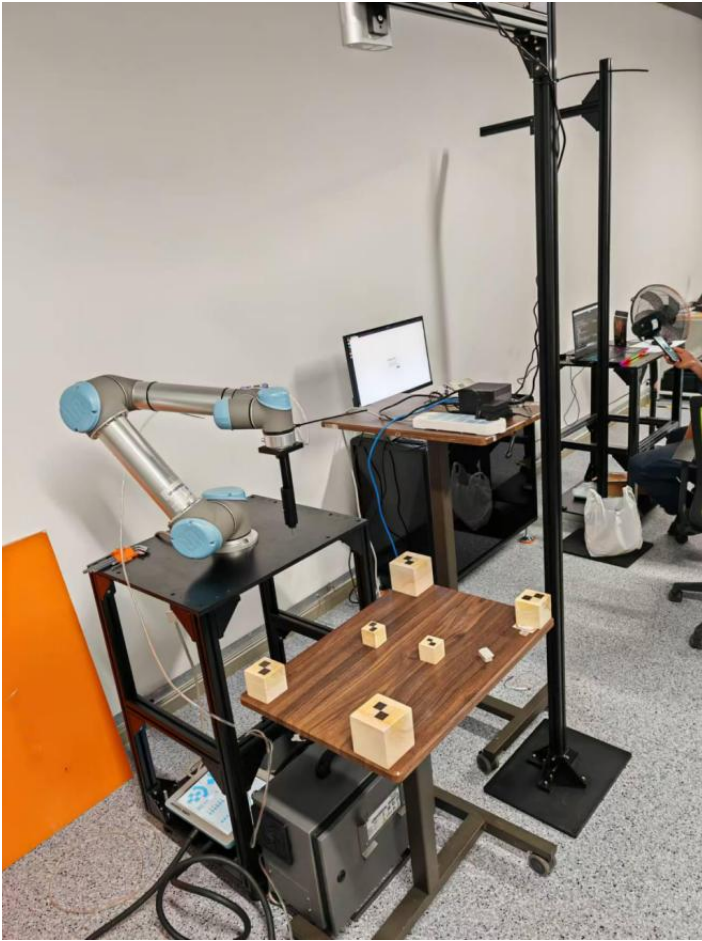
2. Installation steps and references:

2. Installation and commissioning of mechanical watches

Installation and commissioning of UR machinery, and calibration of mechanical arm;



- 2. Depth camera and robotic arm mounting
- 2. Control Host Installation
- 2. The environmental installation completion diagram is as follows:



2. After the completion of the installation, the control software can be jointly debugged and developed (to be developed by the customer).