eArm Usage Precautions

1. Recommended lifting capacity: less than 40 g.

2. Ensure there are no obstructions around the robotic arm that could hinder its movement.

3. Do not forcibly twist any joint of the robotic arm while it is powered on and operating.

4. Avoid clamping objects with the robotic gripper for extended periods. It is recommended not to exceed 40 seconds of continuous clamping.

Recently, some customers have reported that the servo (Dservo) controlling the robotic gripper is prone to burning out. This issue occurs when the gripper clamps an object for too long or when the servo is forced into a stalled position while closing, leading to overheating and burnout.

We sincerely apologize for the negative experience caused by these issues.

To address this problem, we have optimized the program. If the gripper servo does not receive any new control commands within 40 seconds, it will automatically shut off to protect the servo from damage. We have released updated firmware, which makes it very easy to upgrade the factory firmware on the control board.

Please refer to Chapter 5 in the "Arduino" folder for instructions on updating the firmware:

5

Factory Reset Function

5.1 Firmware

Providing the device's "factory reset program" directly to users in the form of a firmware file (e.g., .bin or .hex), allowing them to flash it into the device without setting up an Arduino development environment, thereby completing the restoration process.