

# 2 axis Stage Controller | SHOT-702

## 2 axis stage controller with built-in micro-step driver.

- Can be operated by computer control using the RS232C interface. Manual and programmed control is available using optional dedicated controllers (JS-300, JB-400).



### Guide

- ▶ Sample programs are available for download from our website.
  - SG Sample 32/64-bit version for Windows® (only for RS232C)
  - LabVIEW for RS232C (for v.5.1/v.6i/v7.1/v.8.6/v.2010/v.2012/v.2013/v.2014/v.2015)

Part Name	Part Number
2 axis Stage Controller	<b>SHOT-702</b>
Joy Stick	<b>JS-300</b>
Jog Operation Box	<b>JB-400</b>
Jog Dial	<b>JD-100</b>
MDR Cable	<b>MDR14-CA-2.5</b>

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- Controllers/Drivers
- Softwares
- Stepping Motor
- AC Servo Motor
- Cables
- Piezo

- X Translation
- Theta Rotation
- Goniometer
- Vacuum
- Options
- 40 x 40 mm
- 60 x 60 mm
- 80 x 80 mm
- 85 x 85 mm
- 100 x 100 mm
- 120 x 120 mm
- Others

### Primary Functions

Controller Function	○
Number of Control Axes	2
Stored Program Control	—
Feedback Control	—
Circular Interpolation Control	—
Linear Interpolation Control	—
Driver Function	Micro-step
Micro-step (Max. Division)	250
Driving Current (A/phase)	0.1 – 1.1

### General Specifications

Power Voltage	AC100 – 240V 50/60Hz
Power Consumption	50VA
Operating Temperature	5 – 40°C
Storage Temperature	–20 – 60°C
Ambient Humidity	20 – 80%RH (without condensation)
External Dimensions (W×H×Dmm)	260×70×280
Weight (kg)	2.8

### Interface

GP-IB	—
RS232C	○
USB	—
Ethernet	—

### Optional

CJ-200A	—
JS-300	○
JB-400	○
JD-100	○
SJT-02	—

### Performance Specifications

Coordinate Indication Range	—
Max. Travel to Set	268,435,455
Max. Driving Speed (pps)	500,000
Min. Driving Speed (pps)	1
Acceleration/Deceleration Time (ms)	1 – 1,000

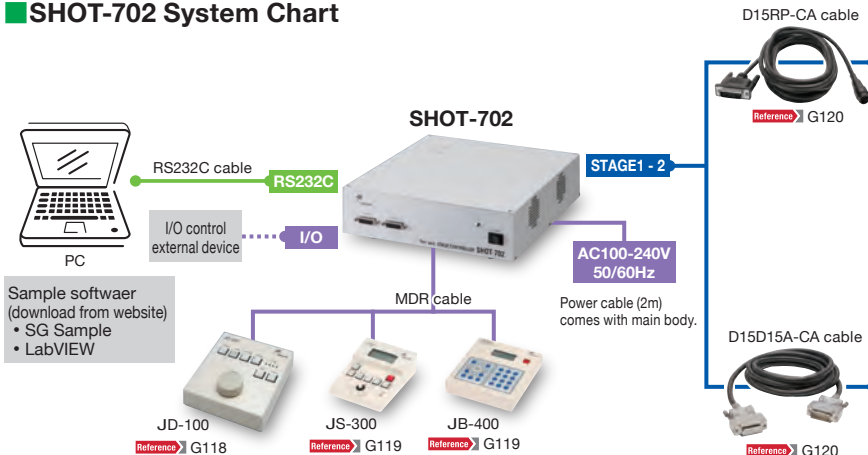
### I/O Specification

Origin Sensor	○
Proximity Sensor	○
CW (+) Limit	○
CCW (–) Limit	○
General Purpose Input	1 point
General Purpose Output	1 point
Control Input	1 point
Control Output	1 point
Trigger Output	—

### Control Command

Machine Origin Return	○
Theoretical Origin Setting	○
Relative Position Drive	○
Absolute Position Drive	○
Jog Operation	○
Position Appointment	—
Circular Interpolation Control	—
Linear Interpolation Control	—
Drive	○
Deceleration Stop	○
Emergency Stop	○
Speed Setting	○
Motor Free/Hold	○
Port Input	○
Port Output	○

## SHOT-702 System Chart



### Stepping Motor Stage

