

2 axis Stage Controller | SHOT-702

RoHS

CE

Catalog Code W9045

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	SHOT-702
Joy Stick	JS-300
Jog Operation Box	JB-400
Jog Dial	JD-100
MDR Cable	MDR14-CA-2.5

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motorized Stages

Light Sources & Laser Safety

Index

Guide

Controllers/Drivers

Softwares

Stepping Motor

AC Servo Motor

Cables

Piezo

X Translation

Theta Rotation

Goniometer

Vacuum

Options

40 × 40 mm

60 × 60 mm

80 × 80 mm

85 × 85 mm

100 × 100 mm

120 × 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

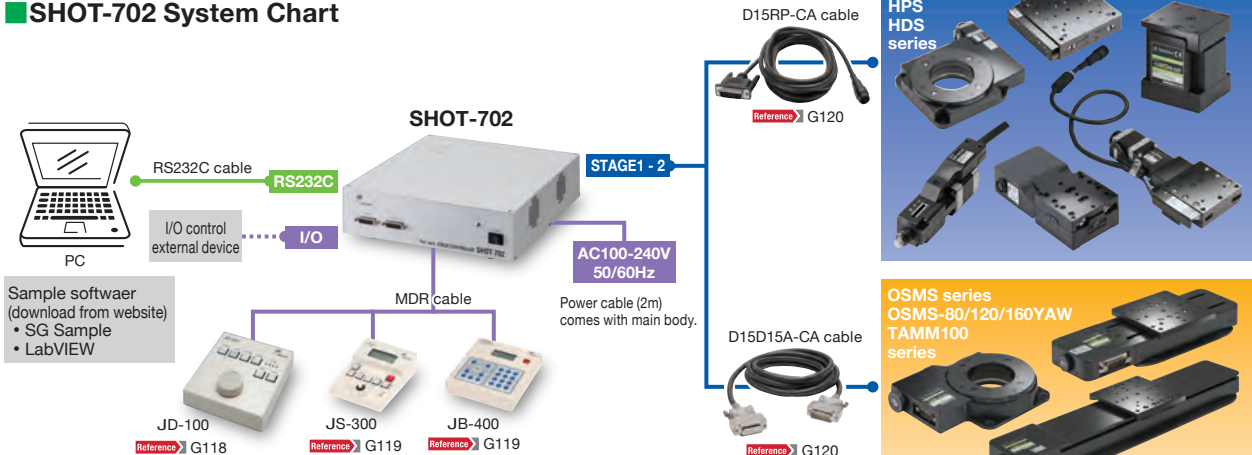
I/O Specification

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

