

Extensible Stage Controller | HIT-MV/SA

RoHS

CE

Modular stage control system with Master controller and from one to eight slave Axes.

- Control with RS232C/USB/Ethernet interfaces is available.
- Full closed loop control is possible when used in positioning stage equipped with encoder.



Guide

- ▶ Sample programs are available for download on our website.
- SG Sample 32/64 bit version for Windows® (RS232C (Virtual COM), for TCP/IP)
- LabVIEW for RS232C (Virtual COM, for TCP/IP)

Attention

- ▶ The power specifications for HIT-MV are DC +24V 1A. The power specifications for HIS-SA are DC +24V 2A. Depending on the number of axes in the stage, please prepare a power supply ranging from 3A (for 1 axis) to 17 axes (for 8 axes). Please purchase the AC-ADP-2427 (AC adapter) or prepare a power supply separately.

Part Name	Part Number
Extensible Stage Controller (Master)	HIT-MV
Extensible Stage Controller (Slave)	HIT-SA
LAN Cable	LAN-2
AC Adapter	AC-ADP-2427

Primary Functions

Part Number	HIT-MV	HIT-SA
Controller Function	○	—
Number of Control Axes	8	—
Stored Program Control	○	—
Feedback Control	—	OSMS (CS) series HST (GS) series
Circular Interpolation Control	○	—
Linear Interpolation Control	3 axes	—
Driver Function	—	Micro-step
Micro-step (Max. Division)	—	250
Driving Current (A/phase)	—	0.25 – 1.4

General Specifications

Part Number	HIT-MV	HIT-SA
Power Voltage	DC24V 1A	DC24V 2A
Power Consumption	24VA	48VA
Operating Temperature	5 – 40°C	
Storage Temperature	–20 – 60°C	
Ambient Humidity	20 – 80%RH (without condensation)	
External Dimensions (W×H×Dmm)	130×120×50	130×120×50
Weight (kg)	0.62	0.62

Interface

GP-IB	—
RS232C	○
USB	○*
Ethernet	○

*Acknowledge as virtual serial port from external PC.

Performance Specifications

Coordinate Indication Range	—
Max. Travel to Set	134,217,727
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	4 points
General Purpose Output	4 points
Control Input	—
Control Output	—
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	○

Optional

CJ-200A	—
JS-301	—
JB-401	—
JD-101	—
SJT-02	—
MD-400	—

Application Systems

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Opto-Mechanics

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Theta Rotation

Goniometer

Vacuum

Options

40 × 40 mm

60 × 60 mm

80 × 80 mm

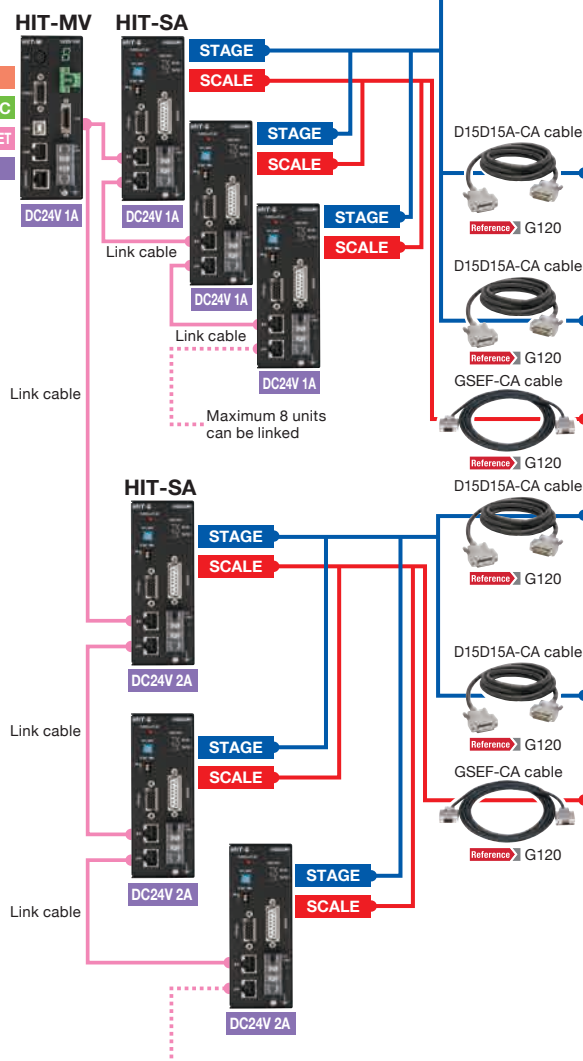
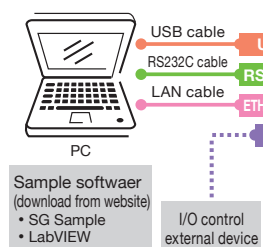
85 × 85 mm

100 × 100 mm

120 × 120 mm

Others

HIT System Chart



Stepping Motor Stage



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Optical
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