

Motion simulation platform for cameras HEXAPOD_H840



Description

The **H-840 Hexapod Motion Simulation Platform** provides high-resolution motion control in six degrees of freedom (6-DoF), enabling precise simulation of complex translational and rotational movements.

Designed for dynamic motion applications, the H-840 features direct-drive brushless servo motors integrated into each actuator. This architecture delivers high positioning accuracy, excellent responsiveness, and superior dynamic performance, with motion speeds of up to 60 mm/s.

These capabilities make the H-840 particularly well suited for simulating handheld camera motion and human tremor patterns in compliance with the **CIPA DC-001 standard**, supporting standardized image stabilization (OIS and EIS) and camera shake testing.

General specifications

Manufacturer / Manufacturer reference	PI / H-840.D2I
DXOMARK Image Labs reference	HEXAPOD_H840
Dimensions	- Hexapod : 348 x 348 x 320 mm - Controller : 312 x 153 x 80 mm
Material	Stainless steel, aluminum
Color	Silver, white
Weight	- Hexapod : 12 Kg - Controller : 2.8 Kg

HS Code	8479.50.0000
Country of origin	GERMANY

Electrical specifications

AC input power	100 - 240 VAC, 50 / 60 Hz
DC output power	24 VDC / 6A
Maximum power consumption (Hexapod + Controller)	144 W

Mechanical dynamic specifications

Active axes	X, Y, Z, θX , θY , θZ
Travel range* in X, Y, Z	± 50 mm / ± 50 mm / ± 25 mm
Travel range* in θX , θY , θZ	$\pm 15^\circ$ / $\pm 15^\circ$ / $\pm 30^\circ$
Maximum velocity in X, Y, Z (Recommended)	60 mm/s (40 mm/s)
Maximum angular velocity in θX , θY , θZ	700 mrad/s (480 mrad/s)
Max. frequency	30 Hz
Amplitude-frequency product in X, Y, Z	23.6 / 23.6 / 8 mm.Hz
Amplitude-frequency product in θX , θY , θZ	5.1 / 5.1 / 14 °.Hz
Drive type	Brushless DC motor
Load capacity (horizontal base plate / any orientation)	10 Kg / 3 Kg

Included elements

	Quantity
H840.D2 Hexapod	1
C-887.5220 Controller	1
C-501.24180M12 Power supply	1

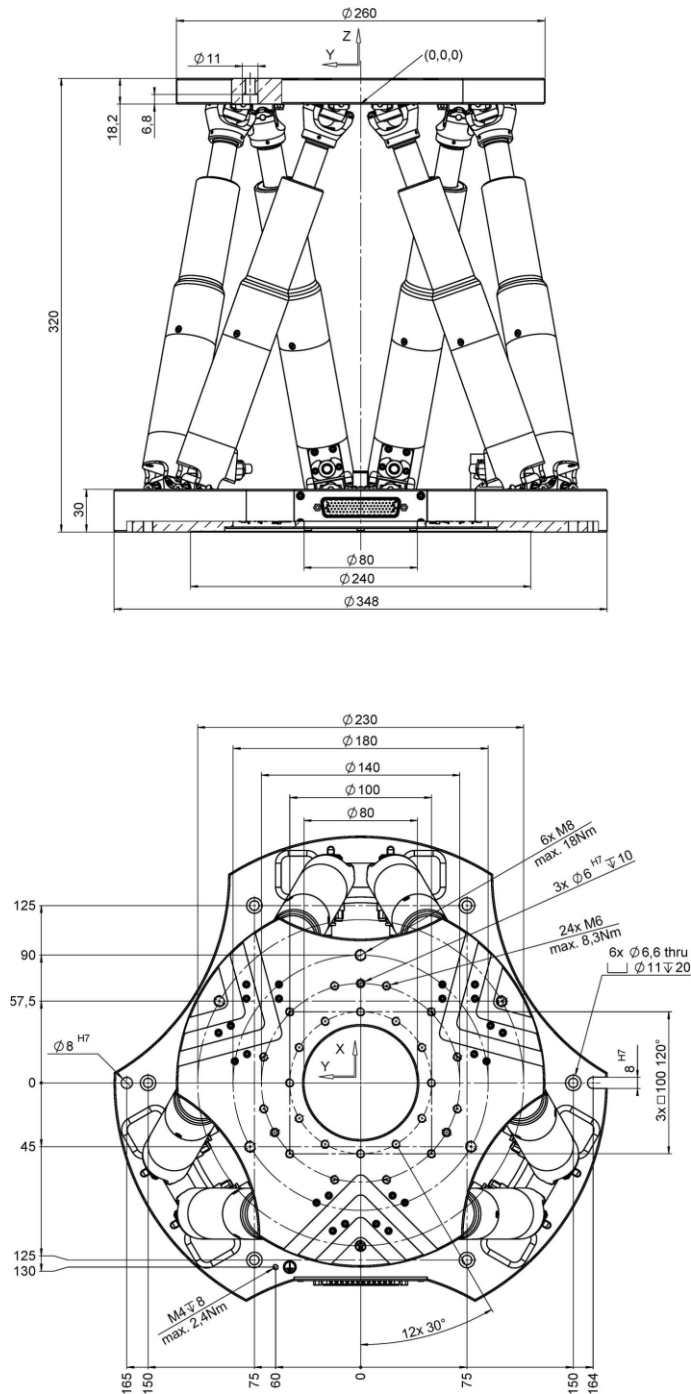
Included accessories and documentation

	Quantity
C-815.82D02 Data transmission cable for Hexapod	1
C-815.82P02A Power supply cable for hexapod	1
C-815.563 Crossover network cable	1
C-815.553 Straight-through network cable	1
C-990.CD1 Data storage device with PI Software Suite	1
MS247EK Short instructions for hexapod systems	1
C887B0165 Shorting plug for the Motion Stop socket of the controller	1

Optional equipment and accessories (sold separately)

DXOMARK reference	Description
NEWPORT_SAT_H840	Workstation for H860 Hexapod
DEVICE HOLDER_840	Camera phone holding clamp for H840

H860 Hexapod dimensions in mm



C-887.5220 Controller dimensions in mm

