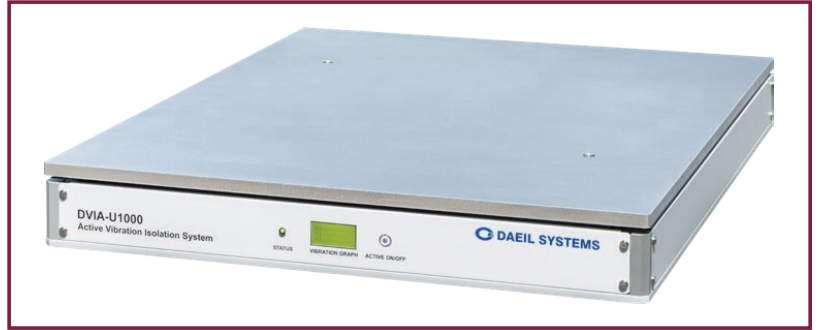


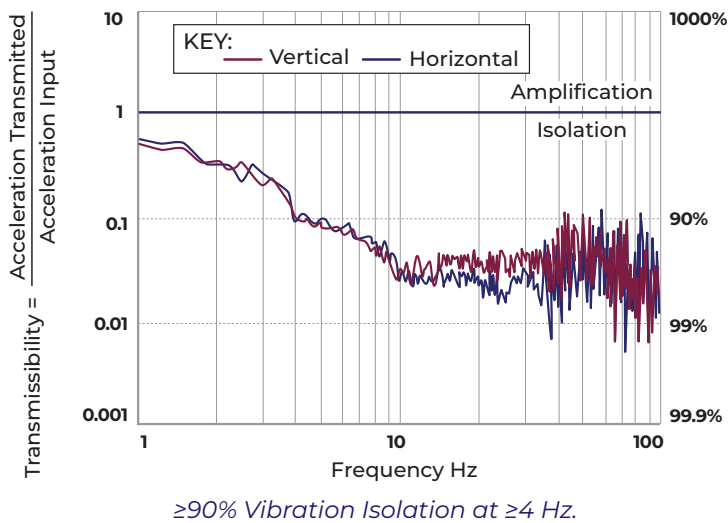
DAEIL SYSTEMS DVIA-UB

DESCRIPTION

The DVIA-UB Series is a low-profile, cost-effective, base active vibration isolation platform that VEC can install directly under microscopes up to 1000 kg. To achieve a more streamlined design, we integrated both the isolators and the controller into the DVIA-UB base. The integrated design eliminates excess cables and the need for a separate controller.



VIBRATION TRANSMISSIBILITY



KEY FEATURES

Low Profile

The DVIA-UB is an excellent choice for microscopes in enclosures or at facilities with height constraints.

Feedforward Controller Included

Out-of-the-box feedforward control is included in all DVIA-UB isolation systems.

Integrated Controllers

The feedback & feedforward controls of the isolator are integrated into the base so no external controller is required.

Strong Performance

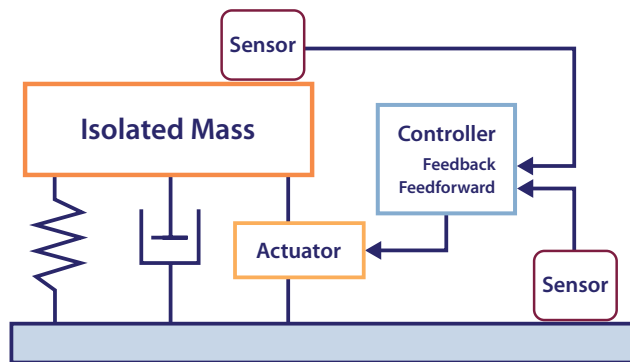
The DVIA-UB uses metal springs in the isolator units which support heavy payloads and provide outstanding passive vibration isolation for high-frequency vibrations.

High-Quality Sensors with a Digital Controller

DVIA-UB systems employ 12 velocity sensors and a digital controller. The sensors and controller use both feedback & feedforward algorithms to enable better vibration isolation performance at lower frequencies.

HOW DOES DVIA-UB WORK?

The DVIA-UB uses the feedback & feedforward control systems to continuously detect vibrations disturbing an isolated payload base and instantaneously react to minimize vibration in real time.



DAEIL SYSTEMS



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DAEIL SYSTEMS DVIA-UB

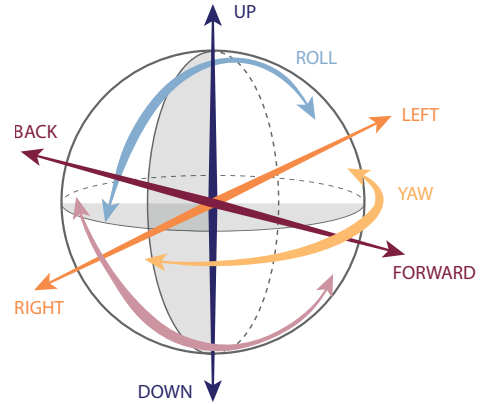
INSTALLATION EXAMPLE



The DVIA-UB is ideal for SEM needs.

ACTIVE VIBRATION ISOLATION IN ALL SIX DEGREES OF FREEDOM

All DVIA Systems control vibrations in three translational degrees of motion (X, Y, and Z) and three rotational degrees of motion (pitch, roll, and yaw.)



TECHNICAL SPECIFICATIONS

Model		DVIA-UB350	DVIA-UB700	DVIA-UB1000
Platform Dimensions (LxWxH)		Custom-Made (fixed H: 130mm)		
Maximum Load Capacity		350 kg	700 kg	1,000 kg
Actuator		Electromagnetic Actuator		
Maximum Actuator Force		Vertical: 6 N, Horizontal: 3 N	Vertical: 12 N, Horizontal: 6 N	Vertical: 12 N, Horizontal: 6 N
Degrees of Freedom		6 degrees		
Active Isolation Range		0.5 – 100 Hz		
Vibration Isolation ≥ 4 Hz		$\geq 90\%$		
Input Voltage (V)		AC 100 – 240V / 50-60 Hz / 1A		
Power Consumption (W)		Maximum 110 W, <50 W in normal operation		Maximum 195 W, <60 W in normal operation
Operating Range	Temperature (°C)	5 – 50 °C		
	Humidity (%)	20 – 90%		
Settling Time		≤ 0.3 sec*		

*0.3 sec settling time is measured after 90% reduction of input. (The settling time varies with several conditions, such as payload, force, natural frequency, etc.)



For more information about the DVIA-UB, scan this QR code



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