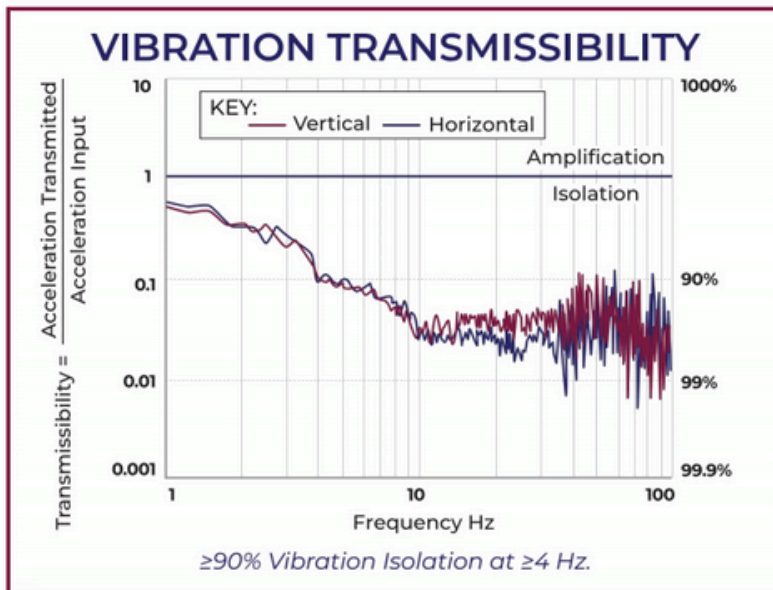
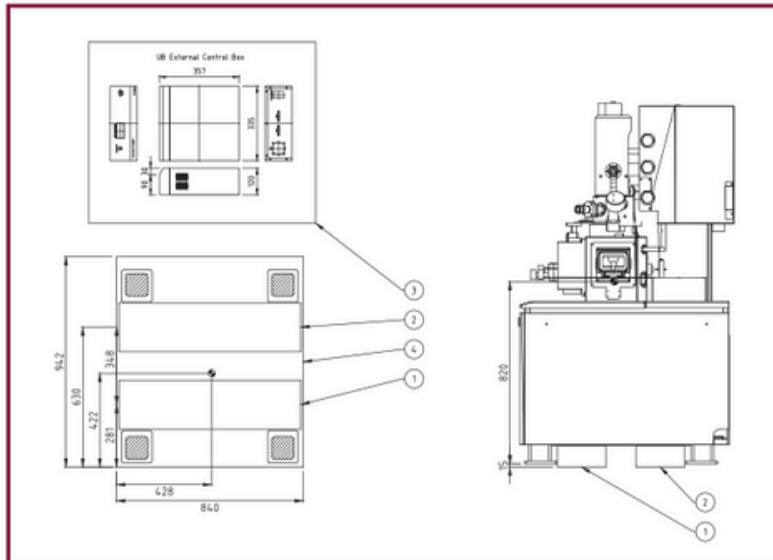


DAEIL SYSTEMS DVIA-U MODULAR UNIT

DESCRIPTION

DVIA-U series modular vibration isolation system is a low-profile, cost-efficient solution for SEMs, FIBs, and Dual Beams. The DVIA-U simplifies installation by placing the vibration isolation platform directly under the microscope frame, maintaining approximately the same overall height and user experience.



KEY FEATURES

UI Software for Users

Understanding the performance of vibration isolation platforms can be a challenge, as the vibrations are often too small to detect. However, our DVIA-U series and UI software provide a unique solution, allowing users to monitor and quantify real-time vibration isolation and floor vibration levels, ensuring a confident and informed operation.

Exceptional Low & High-Frequency Active Vibration Isolation

Using 11 geophone vibration sensors, linear motors, and passive spring isolators, the DVIA-U achieves a 10x reduction in vibration by 4 Hz and a greater than 20x reduction in vibration above 10 Hz.

Out-of-the-Box Feed Forward Control

Our DVIA isolation systems are equipped with advanced feedforward controls on all models. These controls, utilizing real-time ground sensor measurements, detect and preemptively cancel vibrations before they reach the isolated mass. The dynamic control adapts seamlessly to changing vibration levels, ensuring consistent outstanding performance.



Mitigation for Precision Instruments

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DAEIL SYSTEMS DVIA-U MODULAR UNIT

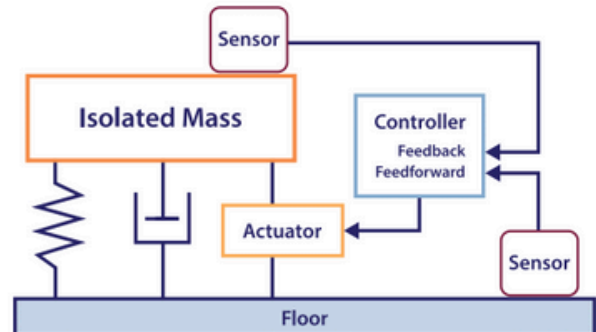
LESS SENSITIVE TO VARIATIONS IN FLOOR STIFFNESS

The DVIA-U series uses a pneumatic passive component and feedforward control for active isolation, making it less dependent on floor stiffness than piezoelectric systems.



HOW DOES DVIA-U WORK?

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



TECHNICAL SPECIFICATIONS

Model No.		DVIA-U350	DVIA-U700
Dimensions (WxDxH)	Isolator Unit	783 x 205 x 96 mm	818 x 220 x 96 mm
	Platform	Custom-Made	
Maximum Load Capacity		350 kg	700 kg
Actuator		Electromagnetic Actuator	
Maximum Actuator Force		Vertical: 6 N, Horizontal: 3 N	Vertical: 12 N, Horizontal: 6 N
Active Isolation Range		0.5 - 100 Hz	
Degrees of Freedom		6 Degrees	
Vibration Isolation Performance		≥ 90% at ≥ 4 Hz	
Input Voltage (V)		100 - 260V AC / 50-60 Hz	
Power Consumption (W)		Maximum 110W, Below 50W 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.)



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