



Daeil Systems DVIA-UD350



Desk Active Vibration Isolation Platform

The DVIA-UD350 is a desk isolation platform with integrated DVIA-U active vibration isolators. Daeil Systems created the DVIA-UD350 to enable operators to sit while they use their instruments. VEC customizes the platform and selects the isolators to match the mass and footprint of the microscope or measurement equipment (up to 300 kg).

Every DVIA-UD350 has a 10-year limited warranty.

Active Isolation Technology

The DVIA-UD350 incorporates sensors and actuators within the feedback and feedforward control systems to reduce vibration in the 1–10 Hz range, with fast settling time.

No Compressed Air Required

The DVIA-UD350 does not require air supplies for the system to operate. Metal springs in the isolator units support heavy payloads and provide outstanding passive vibration isolation for high-frequency vibrations.

Integrated Controller

Integrated feedback controls in the base mean that no external controller is required.

High-quality Sensors with a Digital Controller

Unlike competing low-cost solutions, DVIA-UD350 systems employ 12 velocity sensors and a digital controller that uses feedforward algorithms for better vibration isolation performance at lower frequencies. The use of feedforward algorithms is not possible with analog systems.

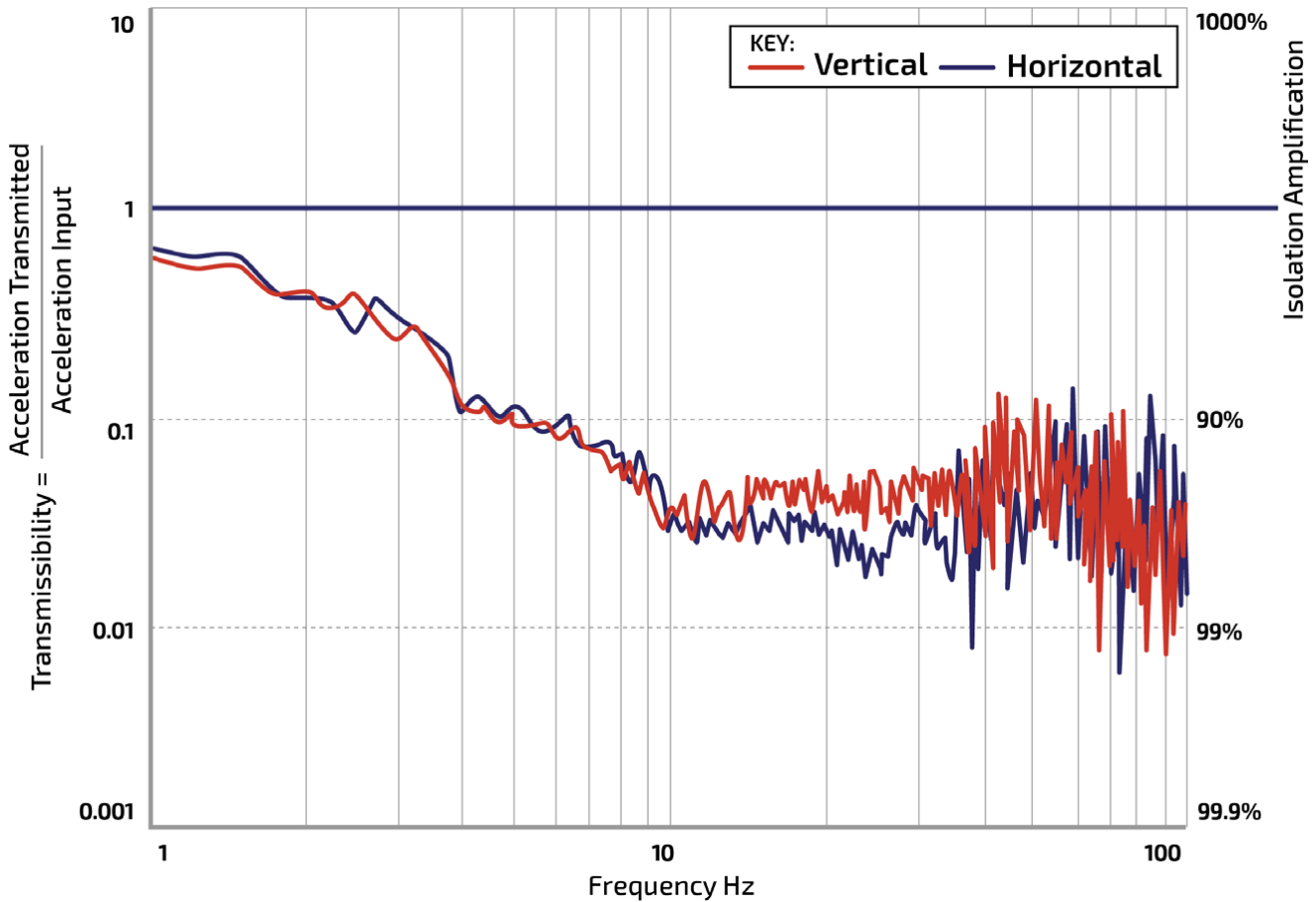
DVIA-UD350 Platform

- Atomic Force Microscopes
- High Resolution Light Microscopes
- Laser Applications
- Interferometry
- Analytical Instruments





Vibration Isolation Performance



Specifications

| | | |
|---------------------------------|----------------|--------------------------------|
| Dimensions (W x D x H) | Isolator Unit | 703 x 205 x 96 mm |
| | Platform (max) | 1100 x 1200 x 800 mm |
| Maximum Load Capacity | | 150 – 300 kg |
| Actuator | | Electromagnetic Actuator |
| Maximum Actuator Force | Vertical | 6 N |
| | Horizontal | 3 N |
| Degrees of Freedom | | 6 |
| Vibration Isolation Performance | | ≥ 50 % at 2 Hz / 90 % at 4 Hz |
| Settling Time | | ≤ 0.3 sec * |
| Input Voltage | | AC 80 - 260 V / 50 - 60 Hz |
| Power Consumption | | Maximum 65 W < 20 W Nominal |
| Operating Range | Temperature | 5 – 50 °C |
| | Humidity | 20 – 90 % |

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