

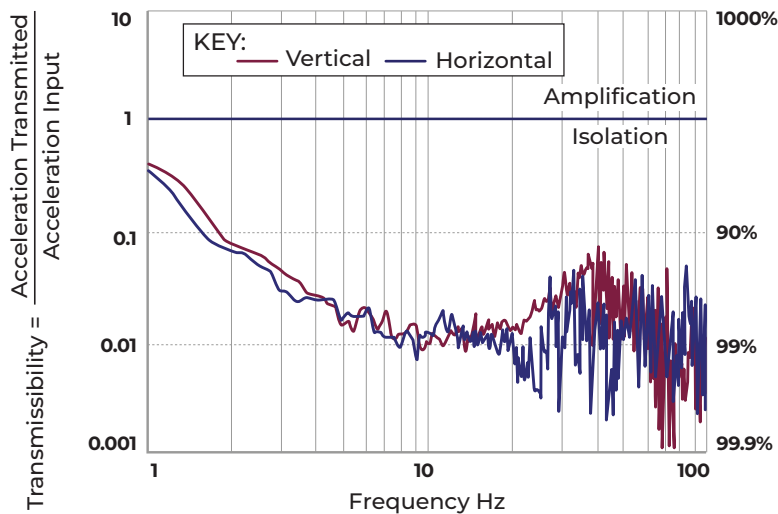
DAEIL SYSTEMS DVIA-T

DESCRIPTION

The DVIA-T Series is the most advanced tabletop active vibration isolation platform, designed to isolate precision instruments from low-frequency vibrations and deliver 40 – 80% vibration isolation at 1 Hz. The DVIA-T is simple to install and operate and comes in various sizes and configurations to meet your unique requirements.



VIBRATION TRANSMISSIBILITY



CUSTOMIZABLE OPTIONS

The DVIA-T offers custom top plate and custom desk platform options, so you can configure and optimize your workspace to fit your needs.



Custom Top Plate



Custom Desk Platform

KEY FEATURES

Compact, Lightweight, and Portable

The DVIA-T Series' smallest unit is compact and lightweight, measuring 420mm x 500mm x 93mm and weighing only 25kg, making it easy to carry and install in any facility.

Feedforward Controller Included

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

It's Simple. Plug and Play!

Set up the DVIA-T with the push of two buttons. The Auto Leveling feature ensures the platform stays balanced based on weight distribution to optimize performance.

Real-Time Vibration Isolation Performance Monitoring

The DVIA-T's software and sensors enable real-time monitoring of vibration levels and isolation performance, while the front LCD display allows for automatic leveling and vibration monitoring.



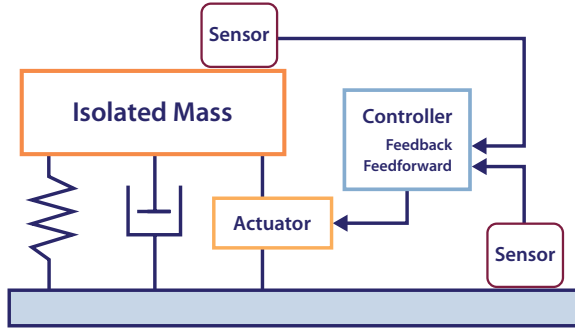
Mitigation for Precision Instruments

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HOW DOES DVIA-T WORK?

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



APPLICATIONS

- Tabletop SEM
- Atomic Force Microscopy
- Scanning Probe Microscopy
- Optical Microscopy
- Confocal Microscopy
- Interferometry
- Micromanipulation
- Nanoindentation
- Ultra-Precision Metrology Tools

TECHNICAL SPECIFICATIONS

Model	DVIA-T45	DVIA-T56	DVIA-T67	DVIA-T78
Dimensions (WxDxH)	420 x 500 x 93 mm	500 x 600 x 93 mm	600 x 700 x 95 mm	700 x 800 x 95 mm
Maximum Load Capacity	90 kg / 150 kg			
Weight	25 kg	32 kg	47 kg	56 kg
Actuator	Electromagnetic Actuator			
Maximum Actuator Force	Vertical: 6 N, Horizontal: 3 N			
Active Isolation Range	0.5 – 100 Hz			
Degrees of Freedom	6 degrees			
Vibration Isolation Performance	≥90% at 2 Hz / 99% at 10 Hz			
Automatically Leveling/ Load Adjustment	Yes			
Real-Time Monitoring	Active isolation status and automatic leveling on LCD display			
Top Plate	No Mounting Holes / M6 Mounting Holes / Custom-made			
Transportation	Internal Lock System			
Input Voltage (V)	AC 80 – 260 V / 50-60 Hz			
Power Consumption (W)	Less than 36 W			
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-T, scan this QR code



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