

DVIA-T Series

Tabletop Active Vibration Isolation Platform

User Manual







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Website: www.daeilsys.com

	CAUTION RISK OF ELECTRICAL SHOCK DO NOT OPEN	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.</p>		
	AVIS RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR	
<p>ATTENTION : POUR RÉDUIRE LE RISQUE DE DÉCHARGE ÉLECTRIQUE, NE RETIREZ PAS LE COUVERCLE (OU L'ARRIÈRE). IL NE SE TROUVE À L'INTÉRIEUR AUCUNE PIÈCE POUVANT ÊTRE RÉPARÉE PAR L'USAGER. S'ADRESSER À UN RÉPARATEUR COMPÉTENT.</p>		

■ Specifications

Model No.	DVIA-T45	DVIA-T56	DVIA-T67	DVIA-T78
Dimensions (W x D x H)	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	90 kg / 150 kg	90 kg / 150 kg	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			
Settling Time	≤0.3 sec*			
Automatic 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			
Transportation	Internal Lock System			
Input Voltage (V)	AC100 - 240 V / 50 - 60 Hz / 0.3 A			
Power Consumption (W)	Less than 36 W			
Operating Range	Temperature (°C)	5 - 50 °C		
	Humidity (%)	20 - 90%		

Contents

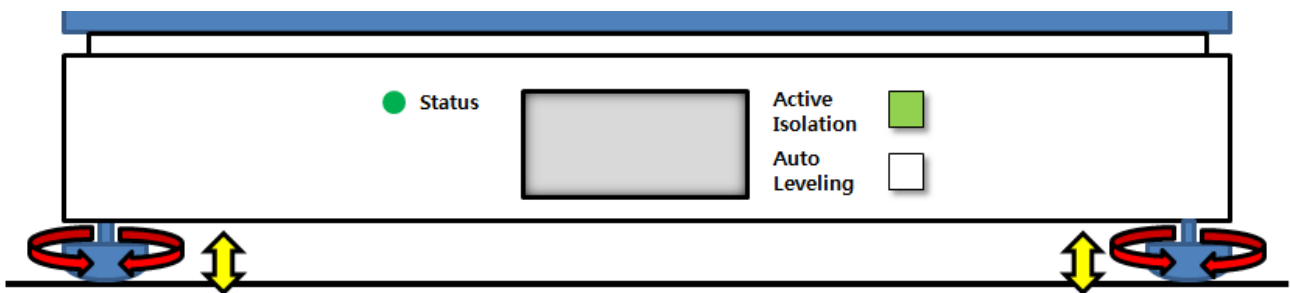
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1. Components

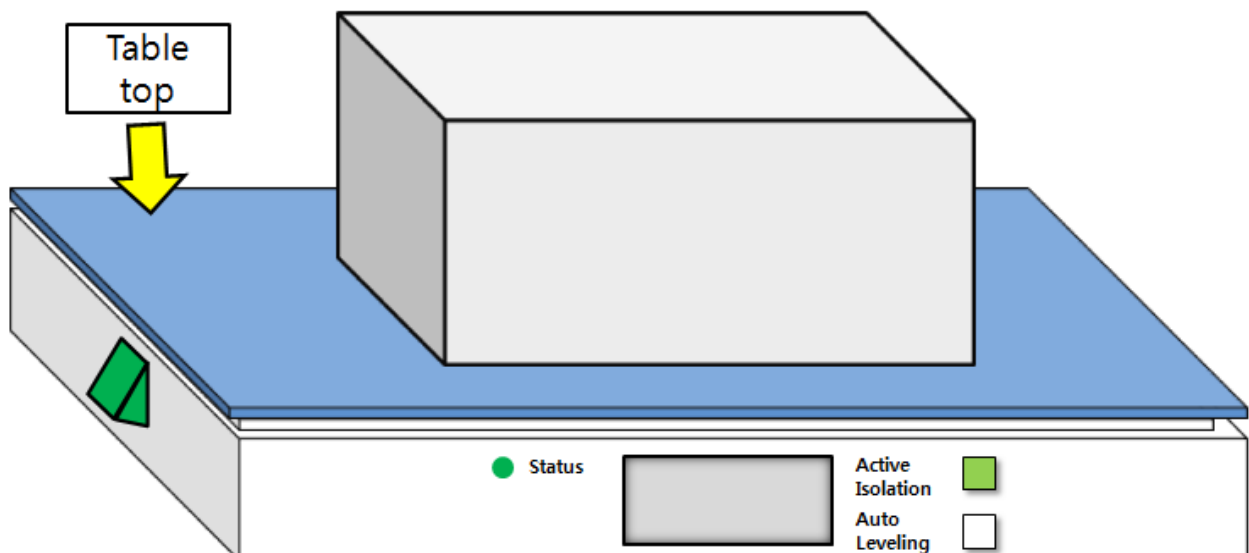
- 1) Tabletop Active Vibration Isolation Platform
- 2) AC Power Cable
- 3) RS232 Cable

2. Installation Procedure

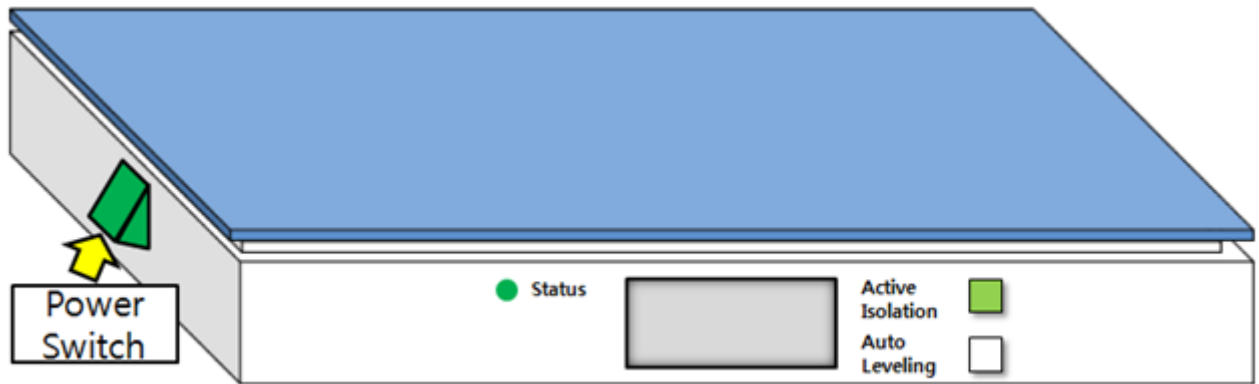
- 1) Place DVIA-T on a rigid table (A table must be rigid as possible and should not be wobbly).
- 2) Adjust leveling foot until DVIA-T is firmly placed on a table.



- 3) Place an instrument on DVIA-T. The center of the instrument mass should be located in the center of DVIA-T.



- 4) Make sure that a power switch is off, then connect an AC Power Cable to Power Inlet at the back side of DVIA-T and plug the AC Power Cable to an electrical outlet.



On



Off

3. How to Active the System

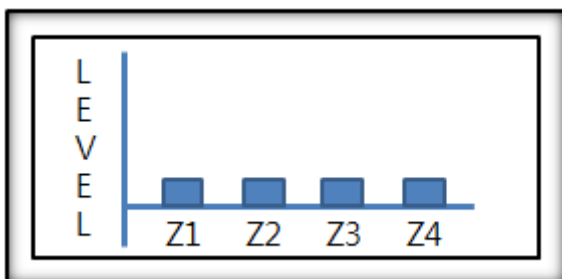
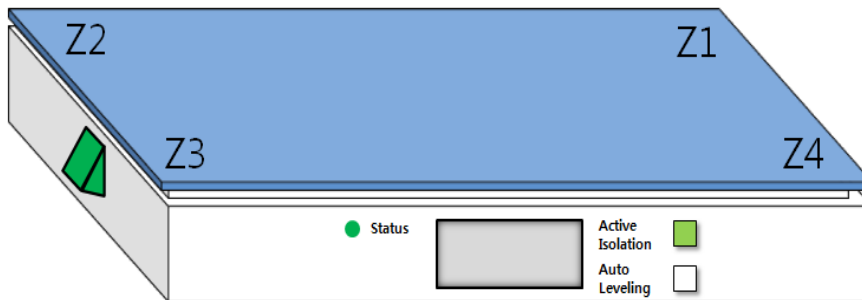
- 1) Press a Power Switch.
- 2) Press an Auto Leveling Button and release.



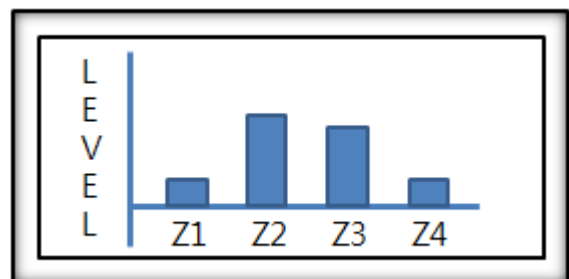
During the auto leveling mode, the top plate goes up and down automatically to adjust tis level.

Please avoid any physical impacts on the top plate during the auto leveling.

- 3) Check level meters on LCD display. The following figures indicate positions of Z1, Z2, Z3 and Z4. If one of them relatively higher than others, the center of mass the instrument is not evenly distributed.



Normal Level Meter



Abnormal Level Meter

When the level meters are abnormally shown, relocate the instrument in the center on DVIA-T.

- 4) When the auto leveling is completed, the auto leveling button's light is off and the LCD display is shown as the figure below.



- 5) Press an active isolation button and release.



4. How to Turn Off

- 1) Before Turning off DVIA-T, disable the current active vibration isolation mode first.
- 2) Press an active vibration isolation button to disable the active vibration isolation mode
- 3) Press a power switch button to turn off the system.

5. How to Lock the System

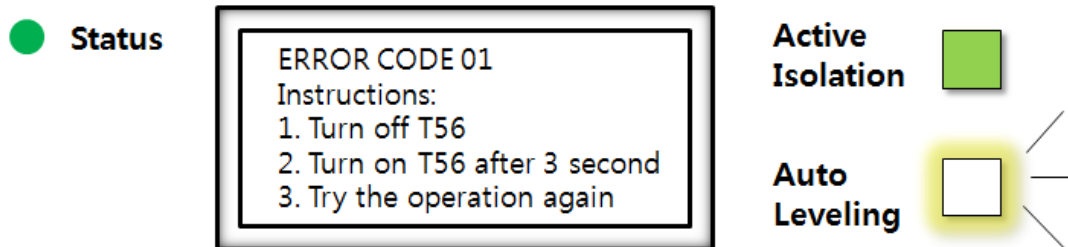
- 1) Unload an instrument from DVIA-T
- 2) Press an active isolation button and auto leveling button at the same time and then release.



- 3) DVIA-T is internally locked for transportation.
- 4) To activate the system, follow steps in **3. How to Activate the Systems.**

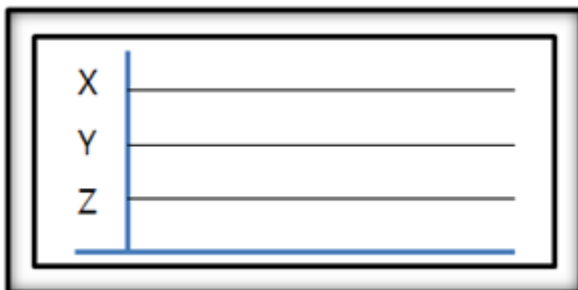
6. Troubleshooting

- 1) Problem: After tuning on DVIA-T, motors do operate with the following message shown on the LCD display when an auto leveling button is pressed.

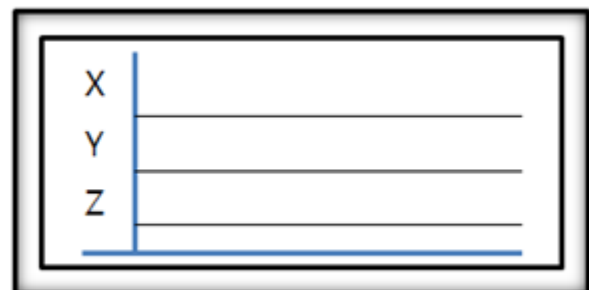


Solution: This problem happens when the processor cannot read the input of the position sensor properly. This problem can be solved by restarting DVIA-T.

- 2) Problem: When pressing an active isolation button, vibration signals are shown abnormally on the LCD display like the following figures.



Normal Vibration Level



Abnormal Vibration Level

Solution: This problem happens when the processor cannot read the input of the position sensor properly. This problem can be solved by restarting DVIA-T.

Please contact DAEIL SYSTEMS, if you experience any issues with our products.

Email: internationalsales@daeilsys.com

DAEIL SYSTEMS LIMITED WARRANTY

DAEIL SYSTEMS warrants any defects in material and workmanship under normal use for one year from the date of original retail purchase by the original end-user purchaser. During this warranty period, DAEIL SYSTEMS will only repair or replace DAEIL SYSTEMS products at no cost only if products are not subject to abuse, misuse, neglect, carelessness, accident, alteration, fire, repair or other external factors. To employ DAEIL SYSTEMS warranty service, contact DAEIL SYSTEMS to get the best course of action. Replaced or repaired DAEIL SYSTEMS products are warranted for the remainder of the original warranty period.

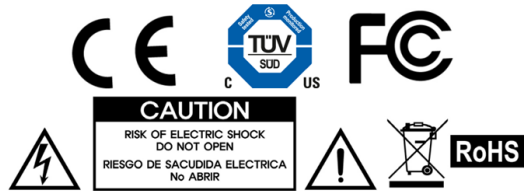
Limitation of Warranty

TO THE EXTENT PERMITTED BY LAW, THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES, AND WE SPECIFICALLY DISCLAIM ALL STATUTORY OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND AGAINST HIDDEN OR LATENT DEFECTS. IF WE CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES, THEN TO THE EXTENT PERMITTED BY LAW, ALL SUCH WARRANTIES SHALL BE LIMITED IN DURATION TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY AND TO REPAIR OR REPLACEMENT SERVICE AS DETERMINED BY DAEIL SYSTEMS IN ITS SOLE DISCRETION.

DANS LES LIMITES AUTORISÉES PAR LA LOI, LA GARANTIE ET LES RECOURS VISÉS CI-DESSUS SONT EXCLUSIFS ET REMPLACENT TOUTES LES AUTRES GARANTIES ET RECOURS, ET NOUS DÉCLINONS SPÉCIFIQUEMENT TOUTES LES GARANTIES IMPLICITES, Y COMPRIS, MAIS NON LIMITÉES, DES GARANTIES OBJET PARTICULIER ET CONTRE LES DÉFAUTS CACHÉS OU LATENTS. SI NOUS NE POUVONS PAS DÉCLARER JUSTE LES GARANTIES STATUTAIRES OU IMPLICITES, ALORS DANS LA MESURE AUTORISÉE PAR LA LOI, TOUTES CES GARANTIES SERONT LIMITÉES À LA DURÉE DE CETTE GARANTIE LIMITÉE EXPRESSE ET À RÉPARATION OU SERVICE DE REMPLACEMENT TELS QUE DÉTERMINÉS PAR LA GARANTIE.

DVIA-T45

Manufacturer : DAEIL SYSTEMS CO.,LTD
Product Name : VIBRATION ISOLATOR
Model Name : DVIA-T45
Power Supply : 100~240V~, 50/60Hz
Rated Current : 0.3A
Serial No :



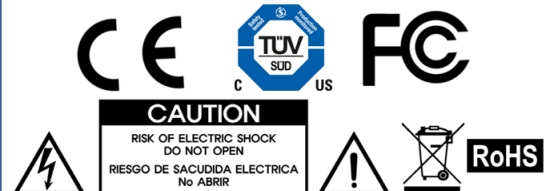
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Made in Korea
<https://www.daeilsys.com>

DVIA-T56

Manufacturer : DAEIL SYSTEMS CO.,LTD
Product Name : VIBRATION ISOLATOR
Model Name : DVIA-T45
Power Supply : 100~240V~, 50/60Hz
Rated Current : 0.3A
Serial No :



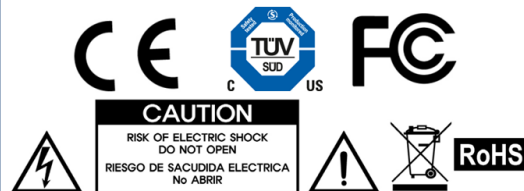
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Tel: +82-31-339-3375

Made in Korea
<https://www.daeilsys.com>

DVIA-T67

Manufacturer : DAEIL SYSTEMS CO.,LTD
Product Name : VIBRATION ISOLATOR
Model Name : DVIA-T45
Power Supply : 100~240V~, 50/60Hz
Rated Current : 0.3A
Serial No :



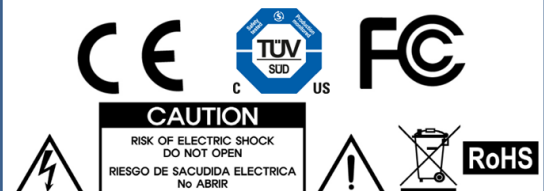
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Made in Korea
<https://www.daeilsys.com>

DVIA-T78

Manufacturer : DAEIL SYSTEMS CO.,LTD
Product Name : VIBRATION ISOLATOR
Model Name : DVIA-T45
Power Supply : 100~240V~, 50/60Hz
Rated Current : 0.3A
Serial No :



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