

The new Halcyonics Active Workstation. Ergonomic Workstation with Active Vibration Isolation .

Halcyonics introduces the new Halcyonics Active Workstation 780 and Active Workstation 900. The new workstation concept has been designed to meet ergonomic requirements of microscope users on one side and to fulfil highest demands with regards to active vibration isolation.

This new Active Workstation is based on Halcyonics' VarioControl technology and therefore features the convenience of "plug and operate" - once the controller is connected to power, all further set-up steps can be done by using the easy-to-navigate menu. The system offers an operating unit with two digital displays; one for the menu navigation and a second to obtain additional information on current vibration levels and the systems' activities. The user therefore always obtains summarized information on the current vibration condition of his or her application.

The vibration isolation of Halcyonics Active Workstation systems begins at 1 Hz and achieves at least 35 dB beyond 10 Hz, offering excellent vibration isolation for vibration-sensitive applications. Compared to passive systems, Halcyonics systems do not show any low frequency resonance, which guarantees their excellent performance even at very low frequencies such as 2-3 Hz.

Available are two different standard versions, 780 mm x 600 mm as well as 900 mm x 750 mm table top surface. Both workstations are the ideal solution for Scanning Probe Microscopy, Patch Clamping, Optical Interferometry and any other vibration sensitive application.

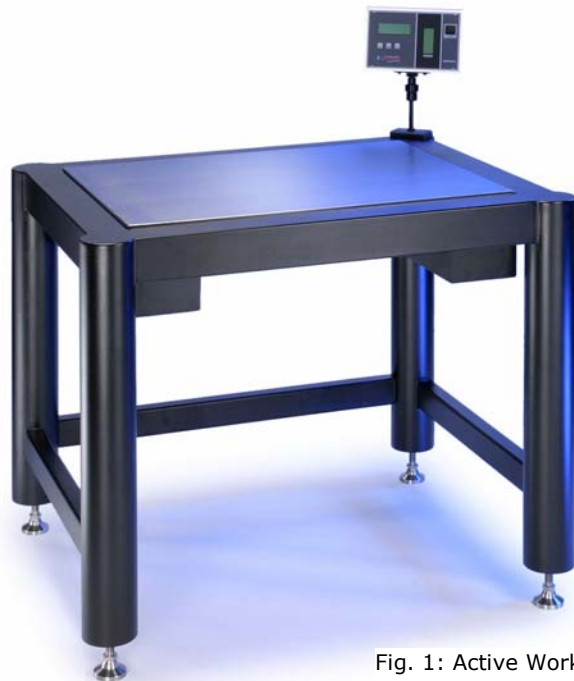


Fig. 1: Active Workstation 780

Key features:

- Isolation begins at 1 Hz, increasing rapidly to at least 35 dB beyond 10 Hz, offering excellent isolation for typical laboratory applications.
- Excellent isolation even at frequencies as low as 2-3 Hz, where many buildings show large horizontal amplitudes due to oscillation about the vertical axis.
- Active isolation in all six degrees of freedom.
- Virtually no low frequency resonance, a resonance that plagues all passive isolation systems.
- Simple and comfortable set-up through automatic load adjustment.
- USB interface with evaluation software

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Technical Specifications

Vibration Isolation System	
Frequency Range:	1 Hz – 200 Hz active, over 200 Hz passive
Isolation Performance:	> 5 Hz = 25 dB > 10 Hz = 40 dB
Isolation technology:	8 piezo-electric acceleration detectors; 8 electro-dynamic actuators. Control electronics with digital microcontroller.
Correction Forces:	Vertical: ± 8 N Horizontal: ± 4 N
Control Electronics:	Easy-to-navigate menu for all settings, second graphics display for vibration levels.
Dimensions and Load Capacity	
Active Workstation 780 Over all:	990 x 810 x 780 mm (l x w x h)
Table top surface:	780 x 600 mm (l x w)
Maximum load:	280 kg
Active Workstation 900 Over all:	1147 x 1000 x 780 mm (l x w x h)
Table top surface:	900 x 750 mm (l x w)
Maximum load:	260 kg
Weight	
Active Workstation 780	Approx. 120 kg
Active Workstation 900	Approx. 160 kg
Software	
Halcyonics USB Software	<ul style="list-style-type: none"> – Activate/deactivate active vibration isolation – Monitor function — display sensor and actuator signals on the computer screen. – Location finder — guidance to find the optimum position in the lab – Spectrum analyser function — guidance to find sources for disturbing frequencies.
Electrical Properties	
Power Requirements:	90-260 V AC, 98-338 V DC 10 W typically, max. 50 W
Interface:	USB 1.1 Standard

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Available option: Active Workstation 780 with M6 tapped holes on a 25 mm pitch as a table top.