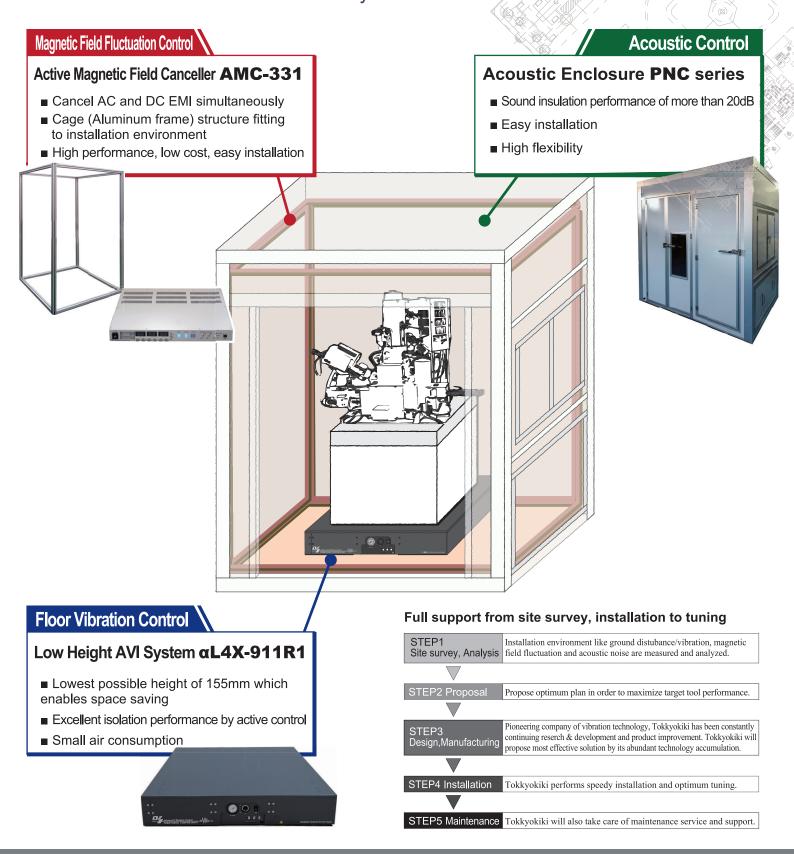


Total Solution for Electron Microscope

Realize noise free environment by Active Vibration Isolation (AVI) System + Active Magnetic Field Caneller + Acoustic Enclosure. Tokkyokiki can offer the total solution!



Low Height AVI System aL4X-911R1

Floor Vibration Control

■ Saving space

Lowest possible height of 155mm (floating) mitigates installation location limitation, and achieve space saving.

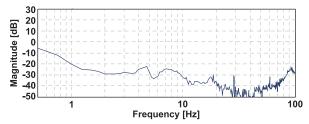
■ Excellent vibration isolation performance

Excellent vibration isolation performance from low frequency by 6DOF active control that cannot be obtained by passive isolation.

■ Small air consumption (1/10 of Tokkyokiki conventional AVI)

Thanks to small air consumption, αL4X-911R1 can normally share the CDA from the compressor for Electron Microscope's internal passive isolator.

■ Actual measurement data *



■ Specification

Product Size : 902(W) x 1,102(D) x 152(H) (Floating155)[mm]

Product Weight : 320 [kg] Loading Weight : 1,000 [kg] CDA Pressure : 0.6 [MPa]

Active Magnetic Field Canceller AMC-331

Magnetic Field Fluctuation Control

Simultaneous cancellation of AC and DC magnetic field fluctuation

Based upon frequency analysis algorithm, AMC-331 performs digital pinpoint control against multiple EMI disturbance.

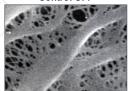
■ Cage (Aluminum frame) structure fitting to installation environment

Design the aluminum frame according to the target tool for the optimum control.

■ High performance, low cost, easy installation

Excellent attenuation performance of max 40 to 60 dB Approximately 1/10 cost compare to passive EMI shield Easy installation just setting up Helmholtz coil cable surrounding the target tool

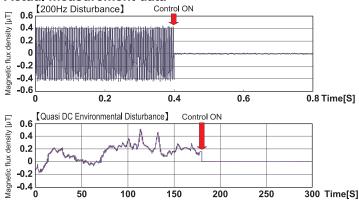
Control OFF



Control ON



■ Actual measurement data *



■ Specification

Control method : Quasi DC + Typical AC Compornent +

Independent feedback for each axis

Control range : $\pm 15 \, [\mu T]$

Control frequency: Quasi DC to 1k [Hz] Maximum EMI attenuation: 40 to 60 [dB]

Acoustic Enclosure PNC Series

Acoustic Control

Excellent sound insulation performance of more than 20dB

The complex board consists of sound absorption and insulation material realizes excellent sound insulation performance from low to high frequency.

■ Easy installation

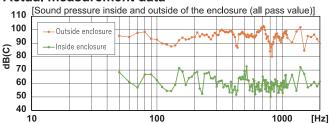
Light weight material enables easy installation without using heavy machinery.

Higher flexibility

Customized design is feasible according to the target tool size and installation environment.

Installation of removable and/or open-close door offers higher maintainability.

■ Actual measurement data *



■ Specification

Insulation Frequency : $63 \sim 2k[Hz]$ Insulation Level : $20 \sim 50[dB]$

Size : Customized (On demand)

Option : Sirocco fan, Spot light, Power distribution panel,

Sound insulation glass, Removable panel etc.

*The measurement data is reference value. The performance may change based upon actual installation condition

