

# VibControl

## Multi-Screen

With the increasing popularity of multi-output PC workstation graphic cards and the increasing demand for remote monitoring of Vibration Control/Data Acquisition tests, m+p international has introduced a Multi-Screen option for both the VibControl vibration control and VibRecorder data acquisition and analysis system solutions.

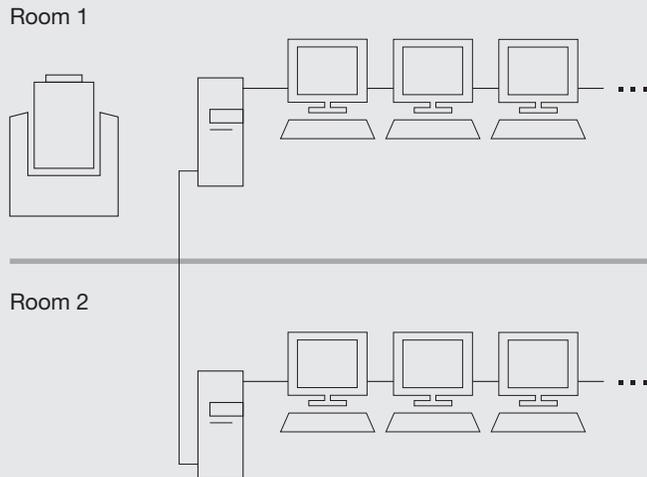


The Multi-Screen option allows the display of multiple online graphic windows on multiple display monitors using the same system PC workstation and/or a remote PC workstation with or without multiple monitors attached. On the local PC workstation that performs the Vibration Control test, using a multiple output graphics card, up to eight monitors can display a total of eight online graphics programs, each displaying up to 16 windows, including up to 4 spectra/time pulses per window. All of this total up to 64 spectra per online display program, including PSD, linear spectra, transfer functions between any set of test channels. In total, eight monitors allow for online real time display of up to 512 spectra, all user-definable, with the possibility to store/load pre-defined layouts per online display program.

Additionally, the Multi-Screen option allows for remote monitoring of a test. This enables customers to watch a test from a remote networked PC, with single or multiple monitor support, irrespective of what is displayed on the control PC. This remote PC workstation can display up to 64 online real-time spectra per connected monitor. The online display program layouts utilized are independent of the display used on the Vibration Control PC workstation allowing for maximum flexibility for the remote user. Remote users can be watching an ongoing large channel count test while displaying channels of interest to them. The remote user can optionally display online test information which include: level and time at level (random tests), current frequency, number of sweeps, sweep direction (sine tests), level and pulses at level (shock tests).

From his desk the remote user might wish to watch in real-time an ongoing test in the vibration test laboratory. This user could display data such as transfer functions between any channel in the test, independent of the operator in the lab, allowing again for maximum flexibility. Multiple remote PC workstations are also supported, each enjoying total independent online display of real time test results. Optionally, the remote user is warned when a test is started on the main Vibration Control system and has the choice to connect to that ongoing test. If only monitoring the test the remote user has no means of influencing the ongoing test except for the display of alphanumeric and graphical information.

A combination of the above options is also supported, so the Vibration Control PC workstation can have multiple online display programs running on multiple monitors combined with a set of remote PC's monitoring the ongoing test in single or multiple monitor environments. This gives both the system operator and the remote monitoring users a maximum of flexibility and independence to get complete control over the ongoing test.



The Multi-Screen option to the m+p VibControl platform is also supported on m+p international's VibRecorder solution. The VibRecorder is a system dedicated to Vibration Control testing data reduction and gapless time domain data streaming to disc. The product supports Random, Sine and Shock data reduction for witnessing and analyzing data from Random, Sine and Shock Vibration Control test. Since the VibRecorder is typically used in combination with the m+p VibControl, both allow sharing of online graphics with each other, using the Multi-Screen option. In other words, the VibControl PC, on (a) separate monitor(s), watch the online display results from the VibRecorder and

vice versa. Both networked systems can also share online information with remote connected PC's, allowing remote users to have the choice to follow the online display of the VibControl system or the VibRecorder system. The possibilities are endless and all user-defined without any performance loss on either system.

Of course, for many users the Multi-Screen option may not seem that important as 512 channels is well above their normal operating parameters. However, it works well with just 4 channels, each one with a full screen display, improving clarity and allowing the user to get an instant picture of what is going on with greater ease.

For more information on this feature of the m+p VibControl and VibRecorder products, please contact your local m+p international sales office or e-mail us.

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