

Leviton Ultrasonic Occupancy Sensors and Mimio Whiteboard Compatibility

- Product:** Leviton Ultrasonic Occupancy Sensors **Article ID:** 05292012-BC/TB-01
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- Summary:** This document describes the compatibility concerns between Mimio Whiteboards and Leviton ultrasonic occupancy sensors.
- Information:** Leviton occupancy sensors are a staple in classrooms around the world. We strive to keep occupancy sensors compatible and integrated with the latest advancements in classroom technologies.

Recently there has been some concern with ultrasonic occupancy sensor placement in classrooms equipped with smart board technologies, particularly the MimioClassroom products. The Mimio system has two components:

- The stylus, an electronic pen that emits an infrared and ultrasonic (40kHz) beacon (i.e. ping) while it is in contact with the writing surface
- The capture device, which contains ultrasonic (40kHz) and infrared receivers that listen for the pings provided by the stylus and use these pings to triangulate the location of the stylus as it moves across the surface
- The system is designed to track stylus movement within 1/100" across the surface. This accuracy requires the system to be extremely sensitive, making ultrasonic the best technology choice

Mimio boards manufactured prior to 2011 (2008-2010 releases) have stylus pens that transmit ultrasonic signals in the 40 kHz range, the same range that is utilized by many other low voltage building system and energy management products, including Leviton ultrasonic occupancy sensors.

Mimio products manufactured in 2011 and later have software that fixes the interference issue and should not have any additional interference issues.

If your education facility has installed, or is planning to install Mimio technologies made prior to the corrected 2011 versions, Leviton recommends using:

- One of our passive infrared (PIR) sensors
- The multi-technology ceiling mount OSCxx-M0W version
- None of these sensors will have an ultrasonic interference issue

New models introduced after the 2011 fix, including the MimioTeach model, have no interference issues with occupancy sensor technologies. Any Leviton occupancy sensor, whether U/S, PIR or multi-technology, can be installed in these classrooms without concern for interference.

Contact: If you have any questions or concerns, please call LES technical support at (800) 959-6004.