Shades of Sustainablity A commitment to a healthy environment





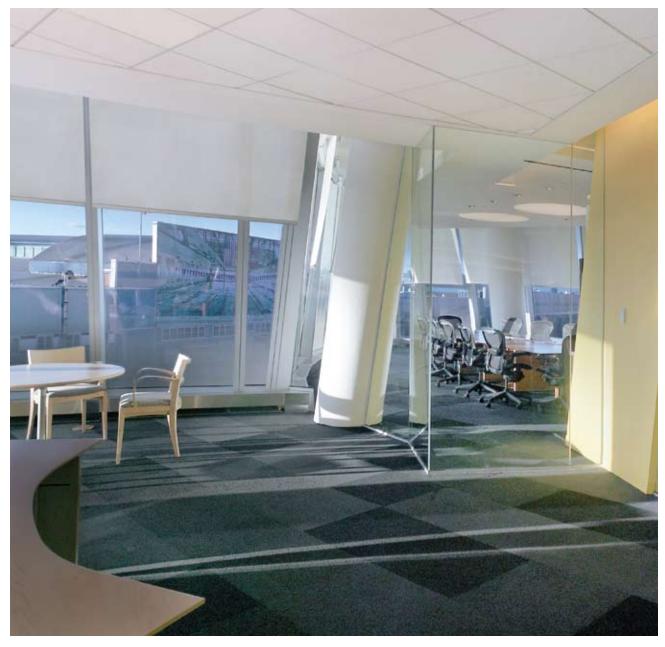
WhisperShade® IQ® System

A technologically advanced motorized window-covering solution that meets the demands of designers, owners, and occupants.

It optimizes daylight use, energy savings, and occupant comfort.

Quiet and powerful

- A robust motor means that there is no compromise between noise and lifting capacity.
- Its smooth, reliable performance is made possible by a streamlined, low-friction design.



 $Whisper Shade ^{\texttt{0}} \ installed \ in \ the \ IAC \ Building. \ Architectural \ interiors: \ STUDIOS \ Architecture.$

Innovative features include:

- Smooth, ultra-quiet operation.
- A powerful system that can lift multiple shade bands in unison, reducing the number of motors needed, thereby minimizing costs.
- A built-in communications port to eliminate the need for relaybased controls.
- Direct connections to lowvoltage IQ[®] switches, which appreciably reduce wiring costs.
- Default intermediate shadeheight positions.
- Customizable intermediate shade-height positions.
- Precise alignment of shades across multiple windows.
- Seamless integration with many other 3rd-party control systems.
- Advanced wireless control though our MechoRF™ ZigBee® interface.
- A variety of configurations including DoubleShades[®], DualShades[®], and multibanded shades.

Specifications:

506 Model - 50mm

120VAC +/-10%, 50/60Hz, 0.9A max., 34 r.p.m.

230VAC +/-10%, 50Hz, 0.5A max., 26 r.p.m.

512 Model - 50mm

120VAC, +/-10%,50/60Hz, 1.8A max., 34 r.p.m.

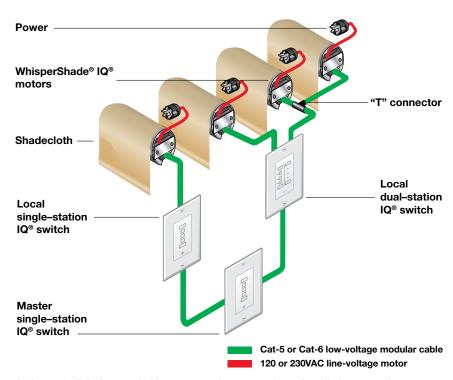
230VAC, +/-10%, 50Hz, 1.0A max., 26 r.p.m.

IQ® switch

10mA max. per switch contact 15VDC, 0.5W power supply



Fewer external controls, less wiring, lower costs



An internal, digitally encoded motor-control system reduces installation costs by eliminating group controllers and the need for calibration. The system uses industry standard Cat-5 and Cat-6 cabling and modular plugs that are widely available.

Advanced control logic built into the motor

- The WhisperShade® IQ® system moves beyond conventional mechanized models by providing up to three customizable intermediate positions (plus full-up and full-down) which are programmed right into the motor.
- An internal digital encoder allows precise shade positioning, with no calibration needed as with a group controller. The elimination of a group controller also means easier, less costly installation and setup.
- The WhisperShade® IQ® System operates in two modes: **normal** and **uniform**.

In the **normal** mode, shades are adjustable to full up, full down, and three intermediate positions. Shades can be stopped at any position or the five preset positions.

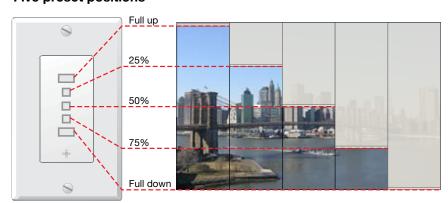
In **uniform** mode, shades are adjustable to only the five preset positions.

Uniform mode



As seen here at the U.S. Green Building Council headquarters in Washington, D.C., in uniform mode, the shades can only be moved to one of five factory-preset or user-defined positions.

Five preset positions



In addition to full up and full down, the switch provides three intermediate positions. These positions are factory preset at 25%, 50%, and 75% heights but can be user-customized to align with architectural features or set at any other height desired.

Customizable settings that exceed expectations

- The WhisperShade® IQ® System allows multiple shades to be aligned within a fraction of an inch, a level of accuracy that was not possible before now.
- The alignment of shades along an elevation provides for a clean, symmetrical appearance.
- This uniquely flexible system offers custom, user-defined positions on the window.
- Shades can be controlled as a group or individually, whether across a floor or throughout an entire building.



U.S. Green Building Council Headquarters

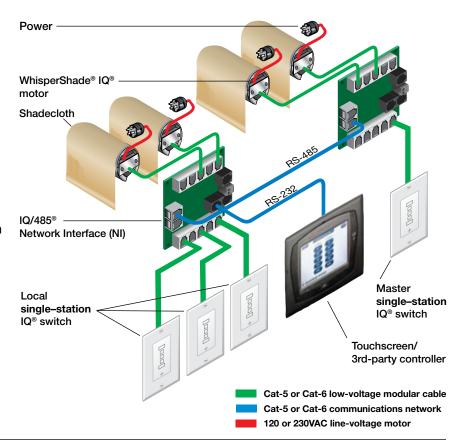


Shades, as above, can be automatically aligned along an entire elevation.

Integration

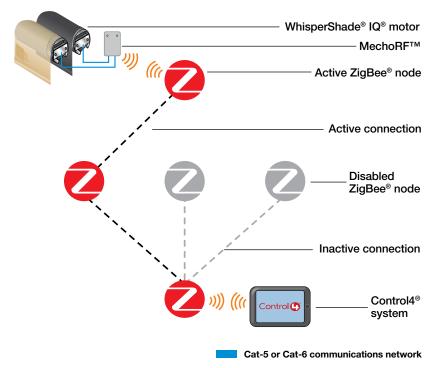
Flexible, expansive, and open control

- WhisperShade® IQ® is designed to work seamlessly with other manufacturers' control systems, maximizing flexibility and ease of installation.
- Its open architecture enables it to communicate with lighting, audio-visual, and building-automation systems.
- Through the IQ/485® Network Interface (NI) card, the system can connect to other devices via dry contact, RS-232 and RS-485, also Wi-Fi, RF, and RTS wireless technologies.
- Third-party control manufacturers that integrate with the WhisperShade® IQ® System include Control4®, Crestron®, Encelium®, Legrand®, Leviton®, Lutron®, Savant®, Vantage®, and Somfy®.



An evolution in wireless shade control

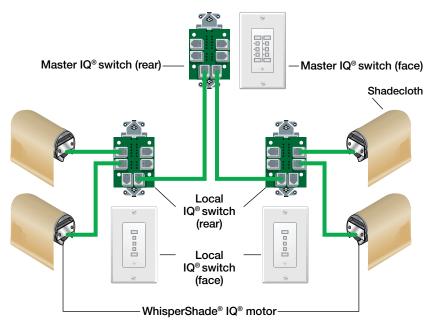
- The interoperable design of the WhisperShade® IQ® System supports the new, more robust ZigBee® Pro wireless technology.
- Through the MechoRF[™] interface unit, the system seamlessly works with the Control4 ZigBee[®] Pro network.
- This configuration provides energy-efficient, self-healing wireless control over long distances, all with greater design flexibility and lower installation costs.
- A single MechoRF interface can control two units, such as a solar shade and blackout shade at the same window, as in the schematic here.



The ZigBee® mesh network has a self-healing feature that routes wireless commands around disabled or inactive connections, automatically discovering the shortest active path from controller to WhisperShade® IQ®.

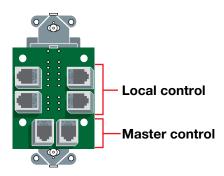
More switches, more convenient control, more flexibility

- A single WhisperShade® IQ® switch can control a group of shades or just one at the touch of a button.
- Direct wiring makes installation simple.
- Switches are available in a range of colors and can be customlabeled.
- Switch dimensions fit standard Decora® panels to serve a wide range of applications.



Cat-5 or Cat-6 low-voltage modular cable 120 or 230VAC line-voltage motor not shown

Rear of IQ® switch



Low-voltage control wiring uses industry-standard Cat-5 and Cat-6 cabling that's easy to locate, purchase, and use for simple, cost-effective installation.

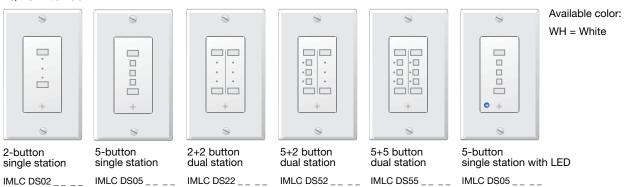


Solar shades, Eagle conference room, New York Times Building.



Solar shades and blackout shades

IQ® switches



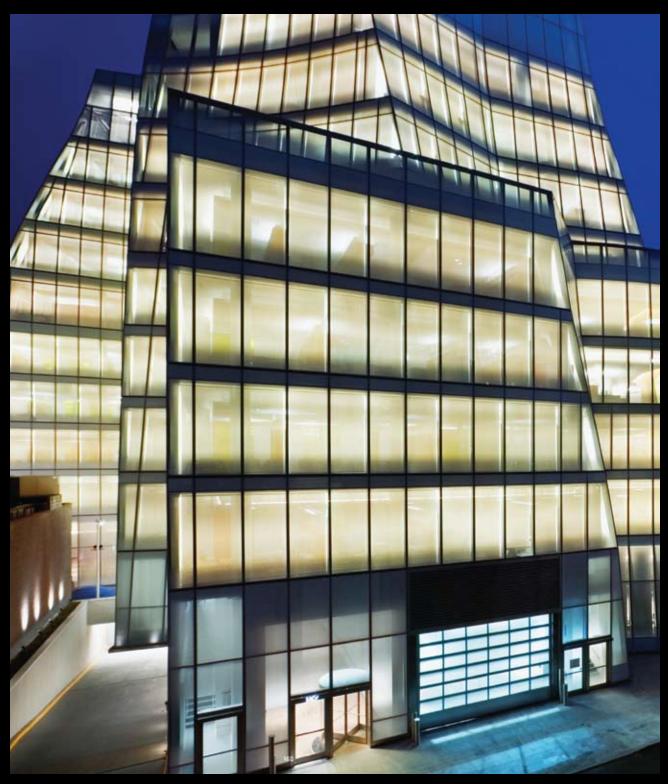


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