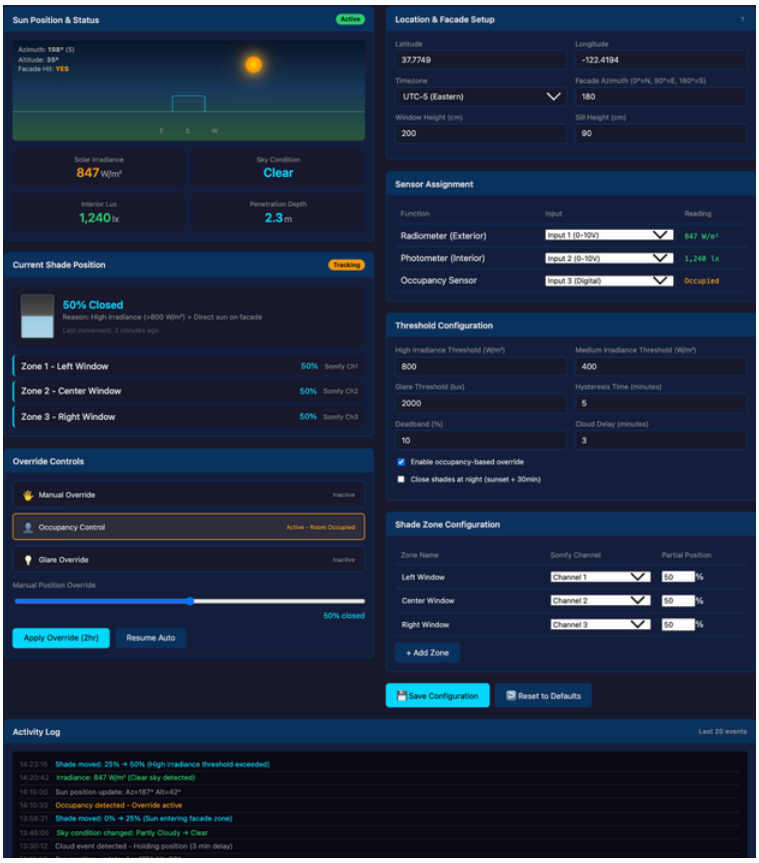
VistaMotion™ Solar Tracking

PoE Motorized Shade Control

SINCLAIR DIGITAL

VistaMotion™ Solar Tracking is a sensor-driven façade automation system designed for high-performance commercial buildings. VistaMotion™ integrates directly with PoE infrastructure to simplify deployment and eliminate low-voltage coordination complexity.



ROI AT-A-GLANCE

8 - 15% Cooling Load Reduction	**10 - 25%** Daylight Harvesting Gain	**24/7** Performance Tracking
2 - 4 yr Typical Payback Period	**~70%** Lighting Energy Reduction	**1 Cable** PoE Power + Control

ENERGY & SUSTAINABILITY

- Reduces peak solar heat gain dynamically
- Up to 15% reduction in perimeter cooling loads
- Supports Net-Zero and energy code compliance

OCCUPANT EXPERIENCE

- Eliminates manual shade adjustment
- Reduces glare-related productivity loss
- Occupancy-based and night mode overrides

INSTALLATION & OPERATIONS

- Single PoE cable for power and control
- Event logging for commissioning
- Centralized monitoring and configuration

Intelligent Façade Automation that Aligns Architectural Intent with Measurable Building Performance.

Reduce Energy Consumption while Enhancing Occupant Comfort and Visual Experience.

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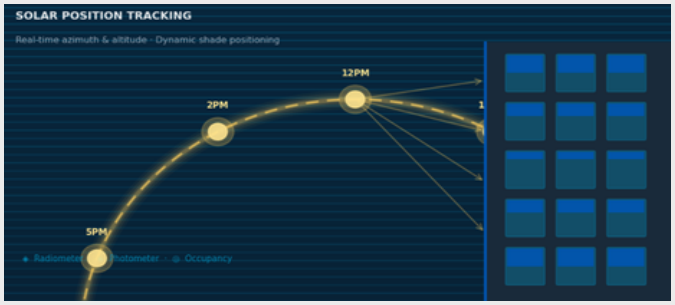
VistaMotion™ Solar Tracking

PoE Motorized Shade Control

VistaMotion™ Solar Tracking Dynamically positions motorized shades using real-time solar position modeling, irradiance data, sky condition analysis, and interior lux measurements. All over a single PoE cable.



Solar Modeling

Real-time azimuth/altitude calculations with façade exposure detection

Sensor Inputs

Radiometer (W/m²), Photometer (lux), Occupancy (digital input)

Control Logic

Configurable thresholds, hysteresis, deadband, and cloud delay

Zone Control

Independent multi-zone shade positioning

Override Modes

Manual (timed), Occupancy-based, Glare-based

Night Mode

Sunset + configurable delay closure

Event Logging

Full event tracking for commissioning and diagnostics

Infrastructure

Single-cable PoE — power and control over one run

IDEAL APPLICATIONS

- Class A Office Perimeter Zones
- Conference & Collaboration Spaces
- Atriums & Curtain Wall Façades
- Net-Zero & LEED-certified Buildings
- Healthcare & Education

SUGGESTED SPECIFICATION LANGUAGE

Provide a PoE-powered motorized shade control system capable of real-time solar tracking using astronomical calculations and sensor-based irradiance inputs. System shall support multi-zone control, configurable solar thresholds, occupancy overrides, event logging, and integration with building automation systems. All shade motors shall be compatible with PoE infrastructure and support centrlized monitoring and configuration.

VistaMotion™ COMPONENTS

Control Hub

Intelligent power and control center supports up to 28 shades, converting AC to low-voltage DC and delivering both power and data over a single Ethernet cable for reliable, simplified, and easily integrated shade systems.

Valana Wall Station

Raise/lower/stop and preset scenes to control motorized shades and curtains, powered and networked via CAT-5e to the VistaMotion™ PoE hub with simple daisy-chaining to reduce wiring.

Experience VistaMotion™ Solar Tracking in action.

Schedule a demo at Info@Sinclair-Digital.com