

Smart Resident Room

SUCCESS STORY

Driving Innovation

In an era defined by rapid technological progress and evolving market demands, Delta's building solutions emerge as a true innovator. This success story explores how Valley View Retirement Community embraced transformation, driving forward facility innovation and setting new benchmarks for smart technology and occupant comfort.

End User

Valley View Retirement Community
Belleville, PA, USA

Project Scope

Delta Electronics partnered with Valley View Retirement Community (VVRC) in Belleville, PA to implement a Smart Room proof of concept aimed at enhancing resident comfort and autonomy in a short-term rehabilitation setting. The project involved converting a traditional room within The Haven—VVRC's nursing and rehabilitative care unit into a fully integrated smart environment. Residents were empowered to control lighting, temperature, and window shades via an intuitive iPad interface, supporting comfort and independence during recovery.

Delta's solution architecture was applied to seamlessly integrate smart controls, ensuring real-time adjustments to environmental settings based on resident preferences. Resident feedback and usage analytics were collected throughout the trial to inform future system enhancements and broader implementation across senior living communities.



The Architecture

- Programmable touch panel for environment control
- Architecturally designed tunable white lighting for visual comfort and circadian support.
- Wireless Bluetooth Mesh SIG lighting and switches for flexible control.
- Quiet motorized shades adjustable to resident preference
- I/O modules for integrated HVAC and shade control.

The Benefits

- Reduces personnel calls by enabling smart, intuitive room management
- Enhances occupant comfort through personalized control of temperature, lighting, and shades
- Boosts well-being with tunable white lighting that supports circadian rhythms
- Scales easily with a one-room-at-a-time approach, ideal for senior living
- Bluetooth Mesh expandability, lowering installation cost and time



Valley View Facility



LPAD-7 Touch Panel

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