



Today's Protection, Tomorrow's Technology

EV2 Wireless Nurse Call



The **EV2** Wireless Nurse Call System provides a comprehensive Nurse Call and monitoring solution for assisted senior living facilities.

Resident Calls - Residents wear a small electronic pendant or wrist push buttons. When the button is pressed, a message containing the identity and location of the resident is sent to care givers in the form of a silent page to their DECT or Cell Phone.

Cancelling - Calls are closed either automatically when the care giver arrives at the location of the caller or when a care giver exposes the calling tag to a handheld canceling module.

Code Blue - Should the care giver require emergency assistance then he or she may press a button on their electronic badge which will send a message to the appropriate emergency response staff.

Escalation – In the event that a resident's call is not closed within a prescribed time, then the **EV2** system will escalate the call to necessary staff members.

Living Unit Monitoring – Various wired and wireless sensors may be monitored by the **EV2** system so that staff members are alerted should a sensor detect an event that requires attention.

Out of Bed Notification and Courtesy Light - Staff members may be notified if a resident leaves his/her bed during the night or when a resident fails to return to bed within a prescribed time.

Room Roaming and Elopement Alert – Dementia patients may be monitored so that staff members are alerted in the event that the patient wanders into an incorrect room or near an Exit.

High Availability – The **EV2** Nurse Call system provides a distributed controller based architecture for high availability.

Wrist, Pendent, Wall Mount or Pull Chord

EV2 radio push-button tags may be worn by patients so that they can call for assistance from any location within the facility. The tags contain LF receivers so that when they pass strategically placed exciters, the tag learns its location. When the button is pressed, the tag transmits the identity of the resident as well as the location. Wall mounted push-buttons may either be wired to a networked **EV2** input or may wirelessly communicate with the EV2 system.



Wrist Tag



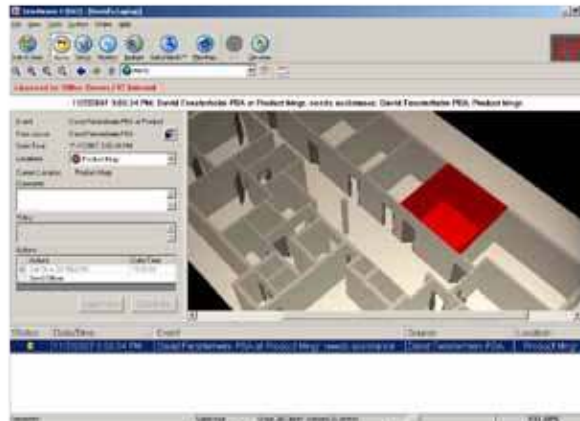
Pager DECT/Cell Phone

Messaging

Call Messages may be sent to a variety mobile or fixed text displays and other audio-visual devices. These include DECT, SMS, Pager, LCD Display Panels, LED Signs, Overdoor Lamps, Staff Base PC Map



Display Panel



Staff Base Map Display



Wall Mounted Exciter

Accurate Room Location

The **EV2** system provides accurate room location by using LF (Low Frequency) Exciter technology combined with optional IR transmissions.

LF Exciter

Each time a tag passes within 1.5m of an Exciter, the tag acquires the location of the Exciter. The next time the button is pressed, the tag will report its location based on the last Exciter that it saw.

Optional IR

Wrist tags that transmit optional IR signals (in addition to the radio) may be used in conjunction with IR receivers that are mounted on the ceiling of living units.

When a call is placed in a room covered by an IR Receiver, then the system explicitly determines the location of the tag based on the receiver ID.



Optional Ceiling Mounted IR Receiver



Staff Badge

Call Cancellation and Code Blue

The **EV2** system may be programmed so that a resident call is closed automatically as soon as the care giver arrives at the location of the resident. This is possible since the care giver wears an **EV2** Staff Badge.

Alternatively, the call may be closed by exposing the caller's wrist tag to a Cancel Pendant. This in turn causes the patient tag to transmit a message instructing the system to close the call. In both instances, there is a record logged including the



Cancel Pendant

time of the call, identity of the caller, time responded and the identity of the responding staff member. If the staff member discovers and emergency situation, a button on the Staff Badge may be used to initiate an emergency call.



Escalation

In the event that a call is not answered within a prescribed period of time, an escalation alert may be programmed that notifies alternate or supervising staff members.



Reporting

A large variety of reports may be generated by the **EV2** Nursecall System. These reports may be used both for monitoring the quality of service as well as for billing based on actual time spent by care givers with patients.



Residential Unit Monitoring

The **EV2** system provides the ability to monitor both Wired and Wireless sensors. Sensors include: Motion, Smoke, Flood, Door Position, CO etc. In addition, pressure sensors may be monitored to alert when a resident leaves bed at night or when a resident fails to return to bed. The **EV2** system may be programmed to turn on a courtesy light when a resident leaves bed at night.



Wandering Patient

In cases of Alzheimer's or other types of dementia, the **EV2** system provides the means of alerting in the event that a high risk resident wanders to a location which is off limits. When an unescorted wanderer approaches an Exit, the **EV2** system may be programmed to automatically lock the door or otherwise alert a staff member. If the wanderer is escorted by a staff member, then the resident may pass without alarming.



Voice Communication

There are a number of ways for a care giver to automatically open a voice channel with a resident that has initiated a nurse call. The number associated with the location may be included in the call message and the care giver may click on the number to call. Alternatively, a number of 3rd party interfaces have been developed for the **EV2** system to various private telephone switches.