

Patient Observation System

The KnowFalls Patient Observation System combines the best features of virtual or remote patient monitoring systems into one user-friendly and affordable HIPAA compliant system. It can be configured to monitor from 8 to over 1000 patient rooms. The software system supports hospital trusted equipment from Axis Communications, Milestone Systems, Dell, HP and Microsoft. The Patient Observation System supports application plug-ins for AI-detection of patient activities that precede a patient's bed exit attempt and interfaces to clinical communications systems such as Voalte.

The Observation System key features are:

- Patient Monitoring
- Patient Engagement
- Patient Observation User Interface
- Database and Reporting



Patient Monitoring

The foundation of a remote patient monitoring system is utilizing discreet, quality monitoring equipment. It needs to provide high-resolution viewing of the patient, a microphone and a speaker for the remote observer to converse with the patient.

There are several communication alternatives including an existing hospital communication system, a network audio system or cameras with an embedded speaker and microphone. A cost effective example of the latter is the [Axis M1065](#). Some of its other features include:

- Wide FOV (110 degrees)
- Small (4.17"x2.36"x1.46"), light weight (.30 lb.) with a versatile mounting kit
- Night vision
- Availability in a wireless or Power Over Ethernet (POE) configuration. Optionally, the hospital room's TV coax cable can be utilized by installing a POE-over-Coax adapter. For more information access [How Does MoCA Work](#).



Within the hospital room, the camera can be installed on the wall, on the ceiling, or on a portable mounting pole.



Patient Engagement

The job of a remote observer is both rewarding and challenging. A remote observer saves lives, prevents injuries and helps patients avoid extended hospital stays. Each year 800,000 to 1,000,000 patients fall out of bed. Over 10,000 die and 1/3 suffer serious injury. The average extended stay is over 4 days and costs over \$20,000. It is absorbed by the hospital since Medicare, Medicaid and private insurers do not reimburse for care resulting from fall injuries.

To help the remote observer, the Patient Observation System eliminates manual data entry and provides user-friendly camera controls to optimize the number of patients being monitored. The video displays can be wall mounted or reside on a desktop.

Patient Observation User Interface

As shown below, the observer via a data entry window that can be repositioned on the display, is able to:

- access the patient’s activity log
- initiate privacy which stops the video display
- log the patient’s current activity, and
- talk to the patient via the camera’s microphone and speaker.



Other functions include:

- Hi-resolution display support
- Camera zoom and pan
- Flagging the patient as being in an agitated state
- Moving the patient’s camera display to a “high watch” area
- Setting alarm zones

Database and Management Reports

The Patient Observation System records all encrypted patient and observer activities within an SQL database. All stakeholders can query the database to extract information and gain actionable intelligence to improve patient engagement and system performance, etc.

Three reports are provided: Patient Activity Report, Observer Activity Report (shown below), and Summary Report.

Observer Activity Report

Date	User	Event
2019-06-25 11:39:01	April Burns	Logged Out
2019-06-25 10:53:27	April Burns	Patient List Screen
2019-06-25 10:28:02	April Burns	Logged In
2019-06-25 10:14:20	April Burns	Logged Out
2019-06-25 10:14:18	April Burns	Logged In
2019-06-24 20:07:05	April Burns	Patient List Screen
2019-06-24 20:04:22	April Burns	Logged In
2019-06-24 19:06:58	April Burns	Logged Out
2019-06-24 19:06:16	April Burns	Logged Out

System Configurations

The Patient Observation System is efficient. It is built on the Milestone video management system with KnowFalls proprietary plug-ins. System configuration and pricing examples are shown on KnowFalls.com. For more information contact one of our application specialists.



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