

BED EXIT ALERT SYSTEM

Real-Time Awareness for Better Care

Every bed exit is a care moment. Know it. Respond to it.



Patients and care recipients may leave the bed without assistance, particularly during nighttime or unattended periods. For caregivers, knowing when a person begins to sit up, moves to the bedside, or leaves the bed can provide valuable time to respond before a potential safety incident develops.

Designed for hospitals, nursing homes, rehabilitation centers, assisted living facilities, and home-care environments, the HYD Bed Exit Alert System provides continuous, contactless awareness of bedside activity. Caregivers can receive real-time information when a patient or resident changes bed status or leaves the monitored area.

Using camera-free 3D spatial sensing, the system detects spatial position, posture and movement without conventional video monitoring. Combined with edge AI processing, HYD turns bedside activity into actionable care events while protecting privacy.

Accurate Bed Exit Detection Recognize bed-status changes and bedside activity.	Real-Time Care Alerts Notify caregivers when care-relevant events occur.	Camera-Free Privacy Protection 3D spatial sensing without conventional image recording.
Contactless Monitoring No wearable or pressure contact is required.	Reduced False Alarms Activity understanding supports more meaningful alerts.	Flexible Deployment Local nurse station or cloud-ready platform integration.

Designed Around Caregiver Needs

Hospitals



Monitor patients' bed status for timely assistance.

Nursing Homes



Safeguard residents during unattended periods.

Assisted Living

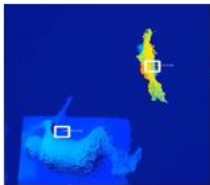


Provide instant alerts to support care staff.

01 How Camera-Free 3D Spatial Sensing Works

For people encountering HYD for the first time, the key distinction is what the system senses. The wall-mounted device observes the monitored bedside space as 3D spatial data rather than relying on conventional RGB video. This allows the system to understand where a person is, how posture changes, and whether movement becomes a care-relevant event.

Fully protect patient privacy



Product wall mounted installation. The installation position is on the wall above the head of the bed, aligned with the centerline of the hospital bed. The installation height is 2.0-3 meters above the ground.



What the sensor sees Spatial depth, position, posture and movement - not conventional camera images.	What caregivers receive Bed status, activity changes and safety events - not continuous video monitoring.
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3D ToF Sensing → Edge AI Processing → Activity Recognition → Structured Care Events

02 From Bed Status to Bedside Activity Awareness

HYD goes beyond a simple bed-exit switch. Continuous spatial sensing can follow the progression of bedside activity and classify multiple patient states, while also detecting additional safety and environment events.

From Bed Status to Bedside Activity Awareness

Continuous spatial understanding of patient activity — without a camera.

HYD 3D spatial sensing technology accurately detects and clasifies patient posture and location in real time, turning bedside data into actionable care insights.



03 Product & Core Capabilities

The HYD wall-mounted device combines 3D ToF sensing, local edge AI and network connectivity in a compact bedside unit. It is designed for continuous monitoring while minimizing changes to existing care routines.

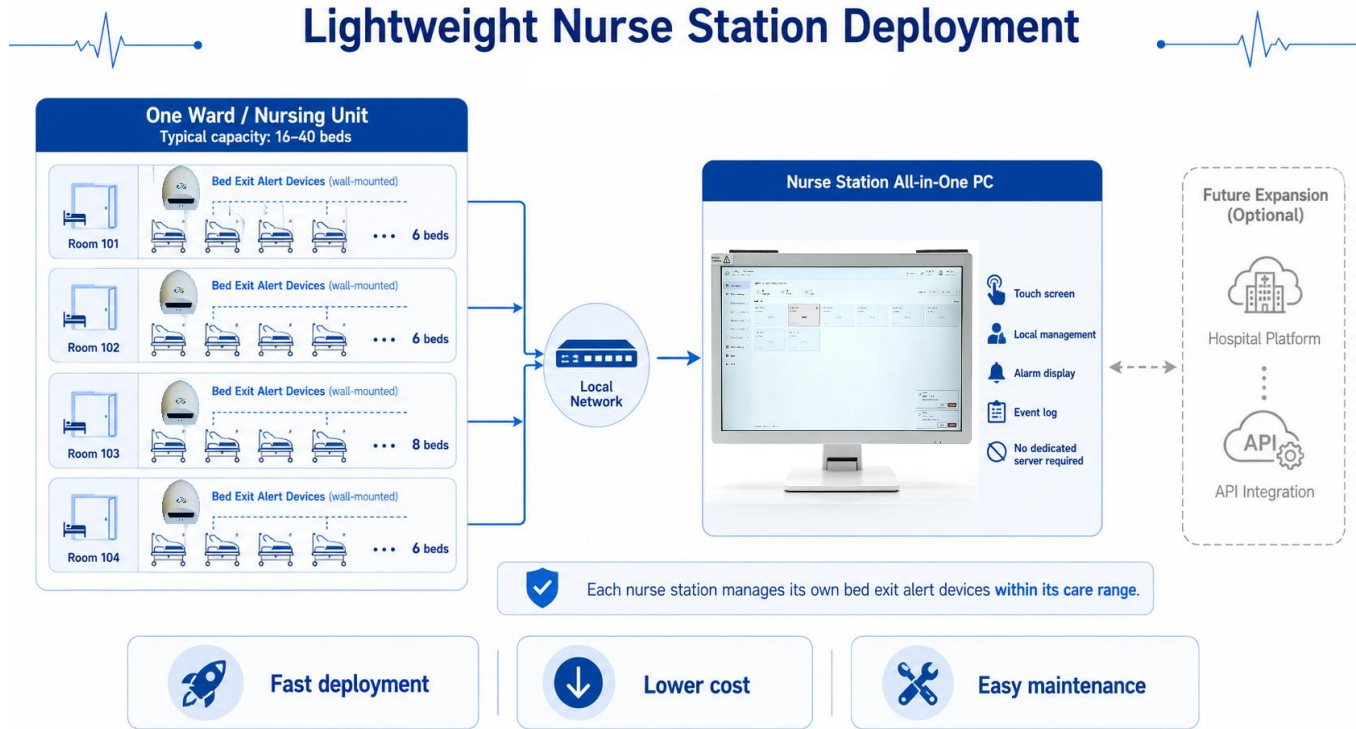
Bed Exit Alert System
Module: HLC-AI-I/Plus II



- ✓ Wall-mounted design above the bed for effective coverage
- ✓ Camera-free operation with no conventional image recording
- ✓ Built-in customizable voice prompts
- ✓ Ethernet / Wi-Fi connectivity
- ✓ Real-time event detection and alert output
- ✓ Designed for hospitals, nursing homes, assisted living and home care

04 Lightweight Nurse Station Deployment

For wards and nursing units, HYD supports a lightweight local deployment model. Bed Exit Alert devices connect through the local network to a nurse-station all-in-one PC for alarm display, event logging and local management. A dedicated server is not required, while API integration can support future connection to hospital platforms.

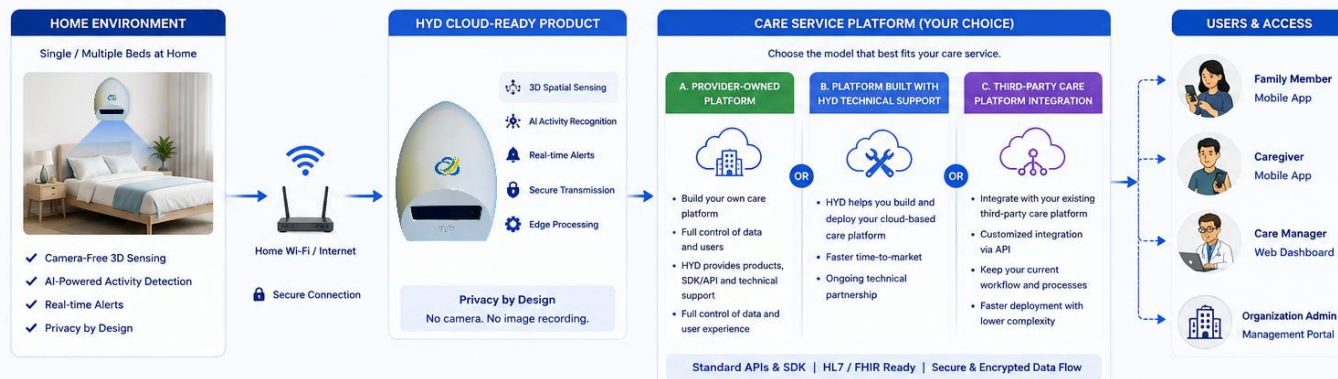


05 Flexible Cloud-Ready Architecture for Home Care

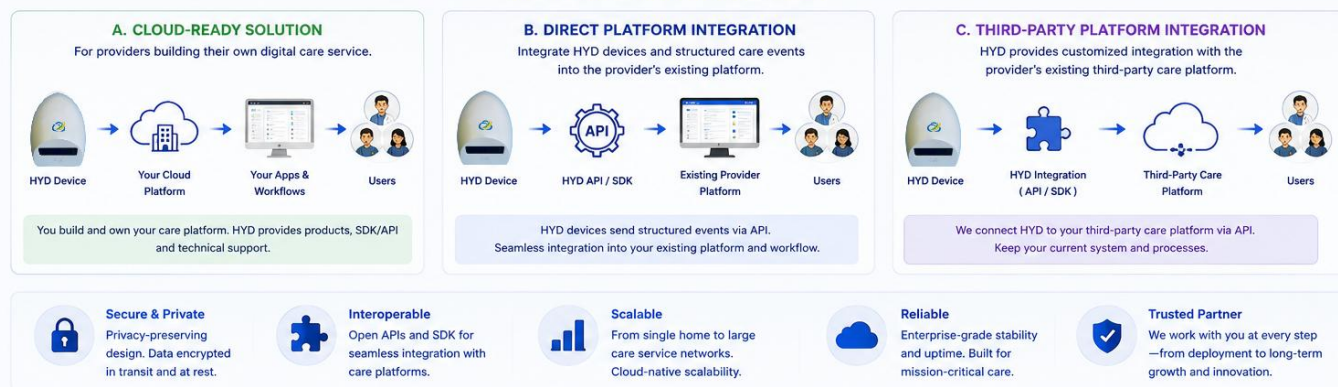
For home-care services, HYD provides cloud-ready products rather than requiring the service provider to adopt a proprietary HYD cloud. Providers can build and operate their own platform, use HYD technical support to accelerate platform deployment, or integrate HYD with an existing third-party care platform.

Flexible Cloud-Ready Architecture for Home Care

AI-powered bed exit alerts and real-time monitoring — accessible anytime, anywhere.



THREE FLEXIBLE INTEGRATION MODELS



06 Integration & Partnership

HYD is designed to adapt to the service provider's existing technology and operating model. The objective is to add privacy-preserving spatial intelligence without forcing the provider to replace an established care platform or workflow.

A - Cloud-Ready Solution	For providers building their own digital care service. HYD provides cloud-ready products, SDK/API capabilities and technical support.
B - Direct Platform Integration	Integrate HYD devices and structured care events into the provider's existing cloud or digital-care platform.
C - Third-Party Platform Integration	HYD provides customized integration with the provider's existing third-party care platform, allowing the provider to retain its current system and workflow.

Keep your existing care platform and workflow. HYD adds privacy-preserving spatial intelligence.

Structured Care Events

Bed Occupancy | Patient Posture | Bed Exit | Fall | Prolonged Inactivity | Zone / Room Event

07 Technical Specifications & Contact

Item	Specification
Mounting Height	2.2 m - 3.0 m
Detection Range	2.0 m ² - 16 m ²
Communication	Ethernet / Wi-Fi
Power Supply	DC 24V
Installation	Wall Mounted

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