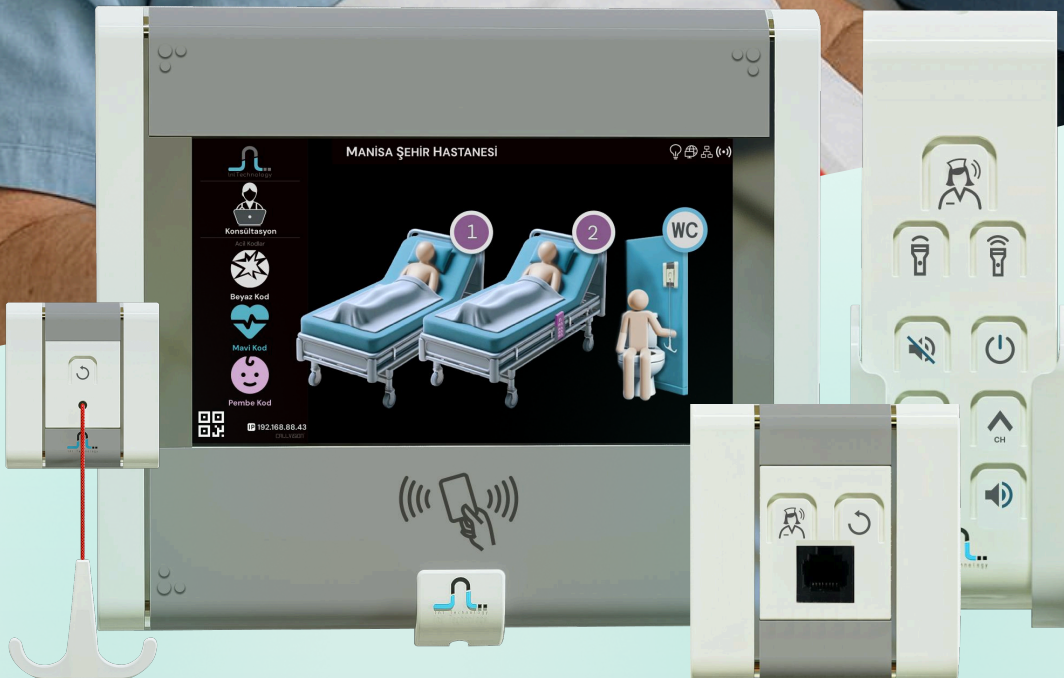


NURSE CALL SYSTEM



THE HEARTBEAT OF PATIENT-NURSE COMMUNICATION

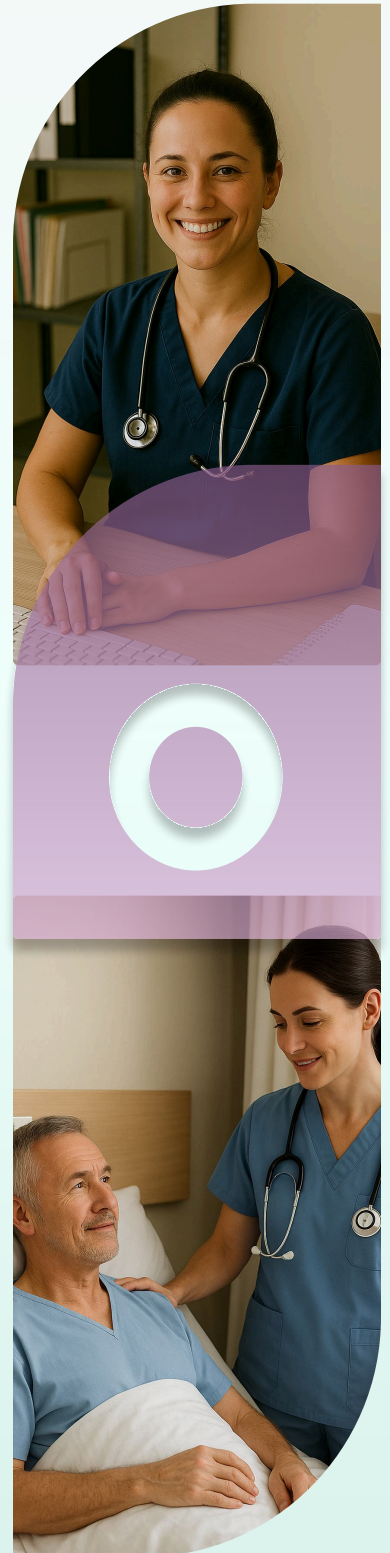
LNL Callvision Nurse Call System is a modern and intelligent nurse call solution designed to enhance patient safety and improve staff efficiency. With its modular structure and user-friendly design, it ensures seamless communication between patients and healthcare personnel, enabling rapid intervention whenever needed.

HOW THE PRODUCT WORKS

The system connects patient rooms, nurse stations and control panels through a reliable wired or wireless network. When the patient presses the call button, the signal is instantly transmitted to the nurse station and displayed on visual panels or mobile devices, allowing staff to respond quickly. In addition, all call activities are logged for monitoring and reporting purposes.

WHAT IT DELIVERS:

The system strengthens communication among healthcare teams, shortens response times and minimizes human error. By organizing patient-staff interactions, it helps hospitals operate more efficiently and ensures that every call is answered promptly. As a result, patient satisfaction and safety reach a new level of excellence.



WHY US?

20+ YEARS OF ENGINEERING AND HEALTHCARE TECHNOLOGY EXPERIENCE

TRUSTED IN DOZENS OF LARGE PROJECTS, INCLUDING CITY HOSPITALS

A BRAND PREFERRED BY HEALTHCARE INSTITUTIONS WORLDWIDE

ALWAYS RELIABLE, NEVER LEAVING YOU HALFWAY IN A CRITICAL MOMENT



Fast and Secure Communication

Instantly connect patients with nurses and medical staff. Trigger emergency codes (Nurse Call, Code Blue, White, Pink) and send consultation requests between departments for rapid response.



Quick Installation, Easy Operation

The system can be installed within minutes in both wired or wireless configurations, allowing staff to start using it immediately without complex setup or training. Additionally, when paired with our RFID solution, the nurse call panels double as location trackers, reducing the number of additional devices needed, cutting cabling and labor costs, and creating wider coverage for active tracking.



User-Friendly Interface

With its intuitive and visually appealing design, staff can operate it effortlessly, responding faster to patient needs while enjoying a modern and elegant interface.



Flexible & Seamless Integration

Our system integrates seamlessly with existing hospital infrastructure, including HIS, fire alarm, and RFID systems, already successfully deployed in dozens of hospitals worldwide, saving time and reducing implementation costs.



Real-Time Monitoring and Reporting

All calls and emergency events are tracked in real time, ensuring rapid response, enhanced patient safety, and easy access to historical data for audits and performance reviews.



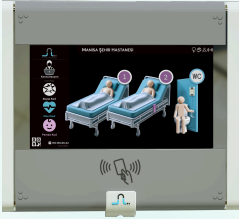
Proven Reliability

Over the past 10 years, less than 5% of the nurse call panels we supplied required maintenance, demonstrating the long-lasting quality and dependability of our devices.

HOW DOES OUR SYSTEM SUPPORT YOU?

- ✔ Provides instant communication between patients and nurses.
- ✔ Enables rapid activation of emergency codes (Nurse Call, Code Blue, White, Pink).
- ✔ Facilitates faster response through interdepartmental consultation requests.
- ✔ Can be installed within minutes, either wired or wireless, and is ready for use immediately.
- ✔ Thanks to its simple and intuitive interface, staff can easily operate the system without additional training.
- ✔ Supports a 7-bed + 1 bathroom/WC configuration: Bedside and bathroom/WC call units can be interconnected via their rear ports, allowing quick access and intervention.
- ✔ With RFID support, panels can be used for both call and location tracking, reducing the need for additional devices and cabling.
- ✔ Fully compatible with existing hospital systems (HIS, fire alarm, RFID).
- ✔ All calls and events are monitored in real time.
- ✔ Historical data is easily accessible for audits and performance evaluations.

SYSTEM UNITS



7-inch Touchscreen Room Control Panel

An intuitive interface for nurse calling, sending consultation requests, and activating emergency codes.



Handset with Lighting and TV Control

Allows patients to communicate with nurses from their beds, adjust lighting, and control TV functions.



Bedside Call Button

Easy-to-use button enabling patients to send nurse calls directly from their bed.



Bathroom/WC Call Button

Waterproof pull cord call button designed for quick assistance requests in bathrooms and toilets.



Overdoor Warning Light

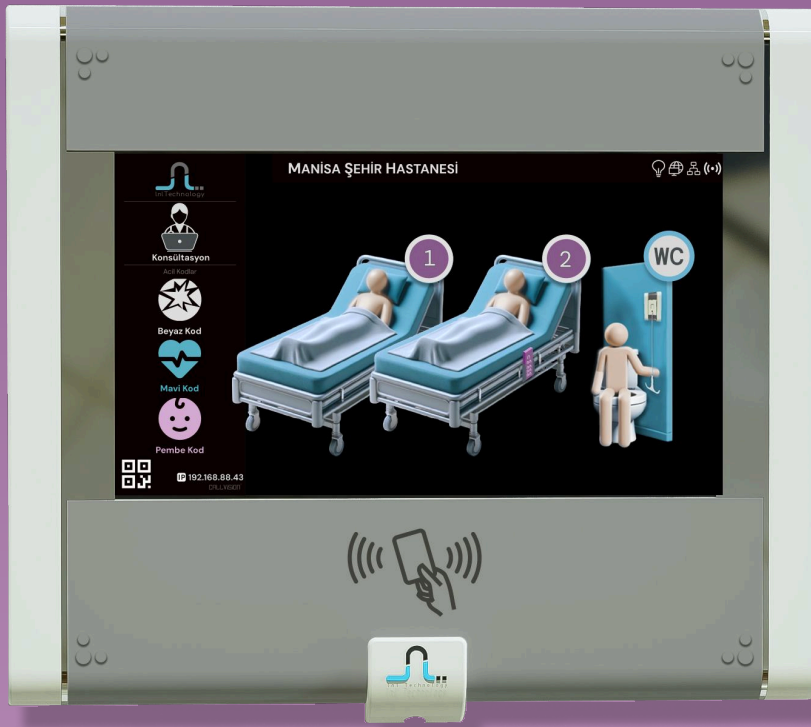
Multi-color light indicator above room doors to signal nurse calls and emergency codes.



21" Nurse Call Panel

Large, clear display for monitoring and managing all active nurse calls and emergency codes in real time.

7" TOUCHSCREEN ROOM CONTROL PANEL



CONNECTION AND CALL HANDLING

The Room Control Panel (RCP) is connected to Bedside and WC-Bath Call Units, the Over Door Warning Lamp, and the Nurse Information Panel. It transmits calls from Bedside and WC-Bath Call Units to the Nurse Information Panel and activates the Over Door Warning Lamp according to the call.

EMERGENCY FUNCTIONS AND COMMUNICATION

Emergency codes can be triggered, and consultation calls can be initiated by logging in to the RCP with an authorized ID card. The RCP verifies authorized personnel by checking the list registered on the server. The Over Door Warning Lamp glows red in case of a nurse call, in the emergency code color in case of an emergency code, and flashes red and green for one second in case of a consultation call. After the nurse or authorized staff ends the call or emergency code, the lamp turns green for two minutes and then switches off.

The RCP communicates with the server in real time and reports events occurring during the process. It can operate offline, storing the latest events and sending them to the server once the connection is restored. All events, including call time and location, responding staff, and response duration, are reported by the server.

The RCP has an embedded wireless RF module, enabling communication with all CALLVISION RF-based products, decoding their RF signals, and notifying the server. This allows real-time location monitoring within the hospital and reporting codes from other devices.

Network settings can be configured automatically via DHCP or manually through the administrator screen. Software updates can be performed remotely via the server.

CAT cables from the RCP's RS485 outputs connect to one of the two RJ45 sockets behind the nearest Bedside Call Unit. The next Bedside Call Unit is connected via another CAT cable to the second socket. This allows all call units to be connected in parallel. Star shaped connection between RCP and bedside units is also supported. The handset can be connected to the RJ45 socket on the front of the Bedside Call Unit.

TECHNICAL SPECIFICATIONS

Standards: **TS IEC 60364-7-710**

Card Reader: **Mifare, Proximity**

Supply Voltage: **12-24V DC/PoE**

Display: **7" LCD Touch Screen**

Dimensions: **188 * 207 * 33 mm**

Notification: **Over Door Warning Lamp, LCD Display, Nurse Information Panel**

Communication Interfaces:
RS485, Serial Port, Ethernet

Call Origin: **Bedside Call Unit, WC-Bath (Corded) Call Unit**

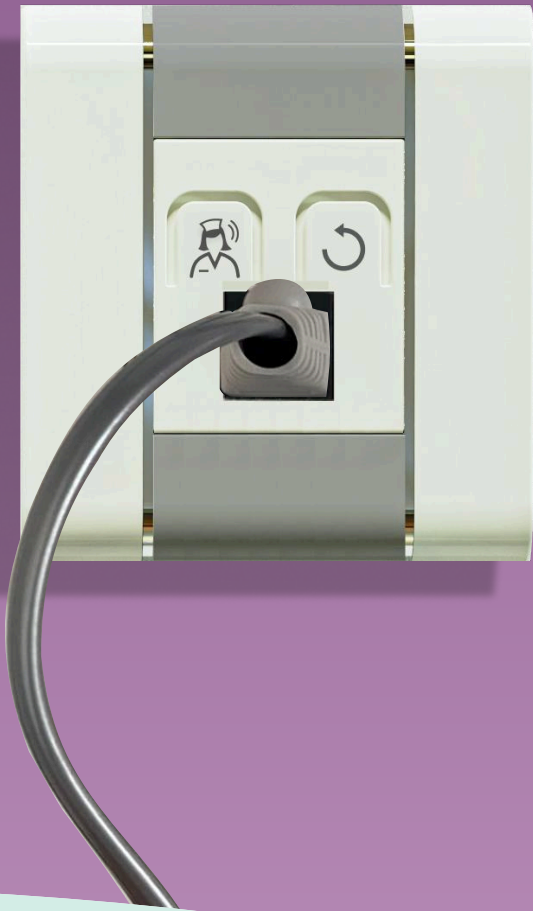
Ethernet Connection: **10/100 Mbps**

Reporting: **Web-Based Reporting**

RF Frequency: **433 MHz**

Time Information: **From Real-Time Server**

BEDSIDE CALL BUTTON



The Bedside Call Unit is used by patients in hospitals to request a nurse or signal an emergency. The front of the device features two buttons: one to initiate a call and the other to cancel it. A connector for the Handset Unit is also located on the front, while all other connections are on the back of the device.

This unit is connected to the Room Control Panel (RCP) via RS485 serial bus. When the call button is pressed, the corresponding "Nurse Call" is displayed on the RCP screen, indicating from which bed the call is originated. Nurse calls are also transmitted the Nurse Information Panel on the nurse's desk via the RCP and the call server. The over-door lamp is also lit accordingly.

The nurse can terminate the call either by pressing the cancel button on the Bedside Call Unit or by scanning their ID card on the RCP twice. A single room may contain multiple Bedside Call Units. Power and communication lines can be distributed on a serial or star shaped bus.

TECHNICAL SPECIFICATIONS

Input Voltage: **5V (Via RCP)**

Supply Input: **RJ45**

Communication Interface: **RS485**

Monitoring: **Red and Green LED**

Mounting Type: **Flush**

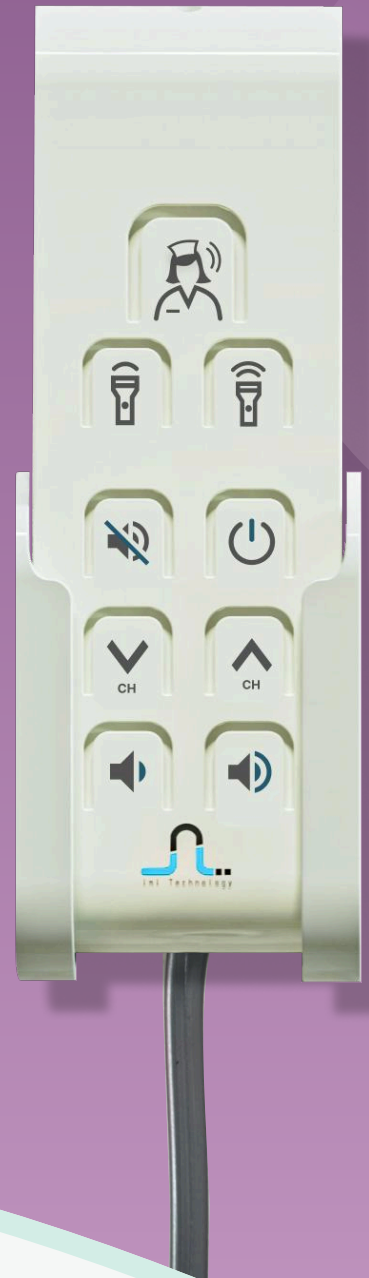
Product Dimensions: **78x78x32 mm**

HANDSET

The Handset Unit, located next to the hospital bed, allows patients to call a nurse or signal an emergency. It features 9 buttons: the first is dedicated to nurse calls, while the others can be configured for various functions such as volume control, TV power, channel selection, and light intensity adjustment. The VIP version also supports voice communication with the nurse.

Working together with the Bedside Call Unit and Room Control Panel (RCP), nurse calls are transmitted and displayed on the RCP screen, indicating the originating bed. Calls also activate the over-door lamp and appear on the Nurse Information Panel at the nurse's desk, ensuring clear visibility for medical staff.

Nurses can end the call either by pressing the cancel button on the Bedside Call Unit or by scanning their ID card on RCP twice. Power and communication are provided through the Bedside Call Unit.



TECHNICAL SPECIFICATIONS

Input Voltage: **5V (Via RCP)**

Supply Input: **RJ45**

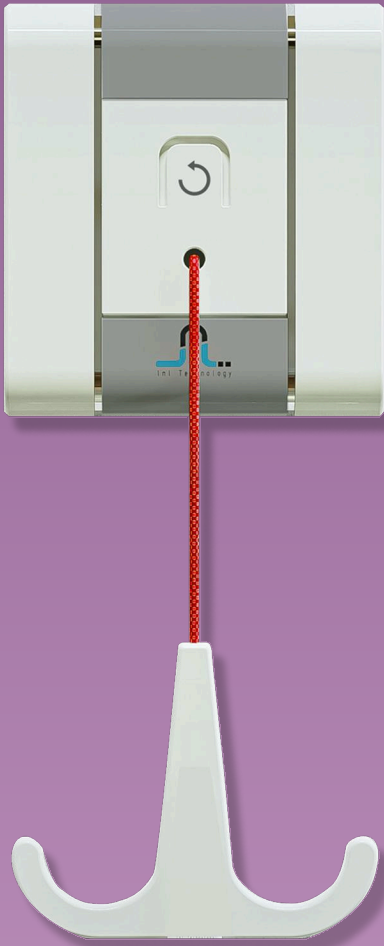
Communication Interface: **Dry Contact Watch**

Monitoring: **Red and White LED**

Case Type: **Hand Held**

Product Dimensions: **110x45x18 mm**

BATHROOM/WC CALL BUTTON



The Bathroom / WC Call Unit allows patients in hospital bathrooms and toilets to call a nurse in case of an emergency. The device features a call rope with a holder and a cancel key on the front, while supply and communication connections are located at the back.

Working together with the Room Control Panel (RCP), pulling the rope triggers a "Nurse Support" alert on the RCP screen. Calls also activate the over-door lamp and appear on the Nurse Information Panel at the nurse's desk, ensuring clear visibility for medical staff. The call can be canceled either by pressing the cancel button on the unit or via the RCP screen.

TECHNICAL SPECIFICATIONS

Input Voltage: **5V (Via RCP)**

Supply Input: **RJ45**

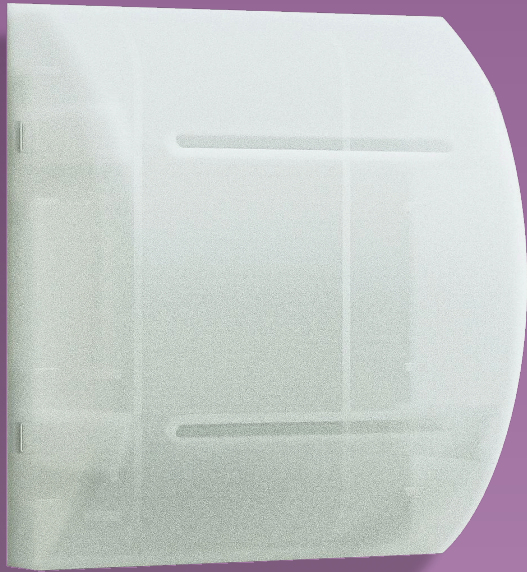
Communication Interface: **RS485**

Monitoring: **Red and Green LED**

Mounting Type: **Flush**

Product Dimensions: **78x78x32 mm**

OVERDOOR WARNING LIGHT



The Over Door Warning Lamp indicates the status of the room during nurse calls or emergency codes. Working together with the Room Control Panel (RCP), the lamp lights red when a nurse call is initiated, green when the call is ended, and blue when an emergency code is activated. Once the emergency code is cleared, the lamp returns to green. The lamp blinks as red and green alterly when an consultation call exists.

The lamp is powered and driven by the RCP. This system has been designed in compliance with current technical specifications and international standards, ensuring reliable operation and clear visual signaling for medical staff.

TECHNICAL SPECIFICATIONS

Input Voltage: **5V (Via RCP)**

Supply Input: **RJ45**

Communication Interface: **Dry Contact**

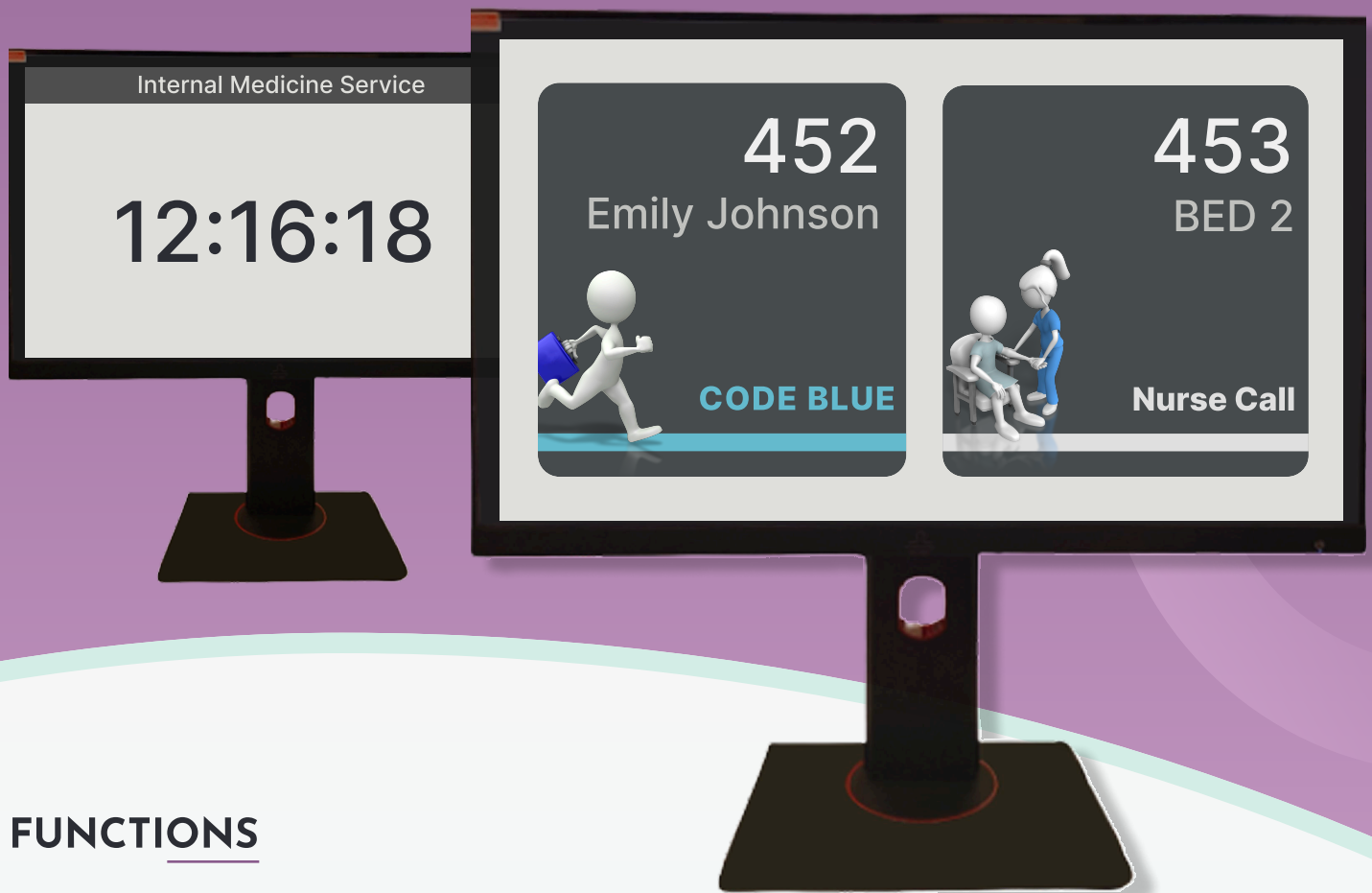
Monitoring: **RGB LED**

Mounting Type: **Flush**

Product Dimensions: **78x78x32 mm**

NURSE CALL PANEL

The Nurse Call Panel is the central unit for managing patient, companion, and bathroom/WC calls within a service. It provides clear visual and audible alerts, displaying patient and bed information while prioritizing calls according to urgency. Staff can monitor multiple simultaneous calls, view call history, and respond effectively. The interface is user-friendly and multilingual, ensuring efficient operation while complying with international standards.



FUNCTIONS

- ▶ Centrally monitors calls from patients, companions, or bathrooms/WCs
- ▶ Color-coded alerts for emergency situations
- ▶ Displays patient name, bed, and room info
- ▶ Prioritized call handling
- ▶ Review of call history

NURSE CALL PANEL

TECHNICAL SPECIFICATIONS

- ▶ Mounting Location: **Mounted on the nurse desk in the service**
- ▶ Display Type: **LCD screen**
- ▶ Network Connection: **10/100MB LAN**
- ▶ Visual Room Layout: **Rooms, beds, and bathrooms shown visually**
- ▶ Call Display Functionality: **Nurse, emergency, and doctor calls displayed visually and audibly with room/bed info**
- ▶ Call Status Notification: **Icons and sounds indicate call status**
- ▶ Web Access Restriction: **Web surfing disabled**
- ▶ Call Display Priority: **At least 5 simultaneous calls displayed by priority**
- ▶ Nurse Presence Detection: **Displays "Nurse in the room" and cancels the call**
- ▶ Call Transfer Function: **Calls can be forwarded to another panel if no nurse on duty**
- ▶ Multilingual Interface: **Supports multiple languages for user convenience**

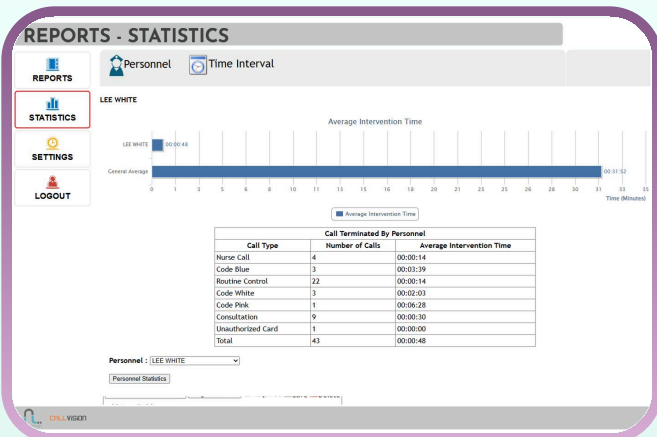
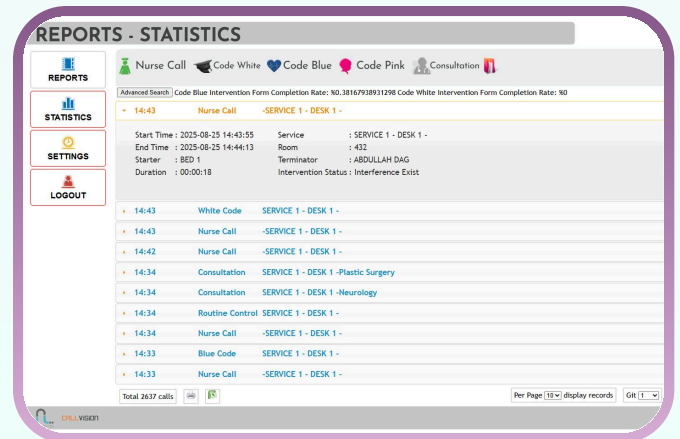
LOGS AND REPORTING

Our Call Reporting and Statistics Service enables hospitals to monitor and evaluate all types of calls in detail.

When the interface is opened, users are welcomed with the message “Welcome to the Call Reporting and Statistics Service.” From this point, hospital management and authorized staff can easily access critical data such as call time, response duration, attending staff, event status, and additional notes.

Reports:

All event logs are listed, including start and end times, department, staff, and room information. For certain emergency code types, the system provides customizable intervention forms. These forms can be tailored to hospital requirements, allowing all details related to an incident to be entered and stored in the system. They can also be exported and used as official records if needed.

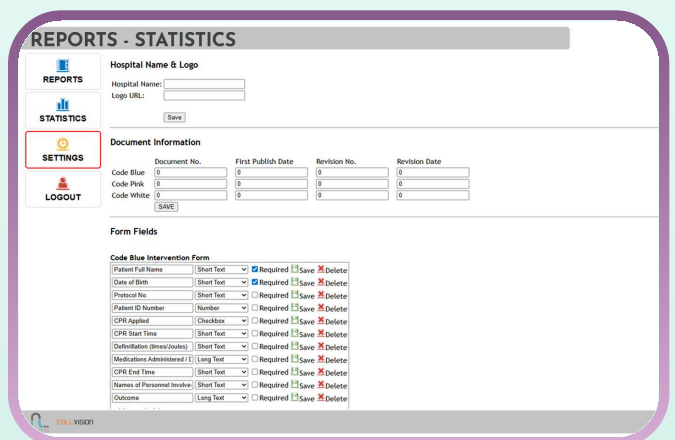


Settings:

Hospital name, logo, and document information can be customized. In addition, the fields within intervention forms can be configured according to the hospital's needs, ensuring that each institution has a reporting infrastructure aligned with its own processes.

Statistics:

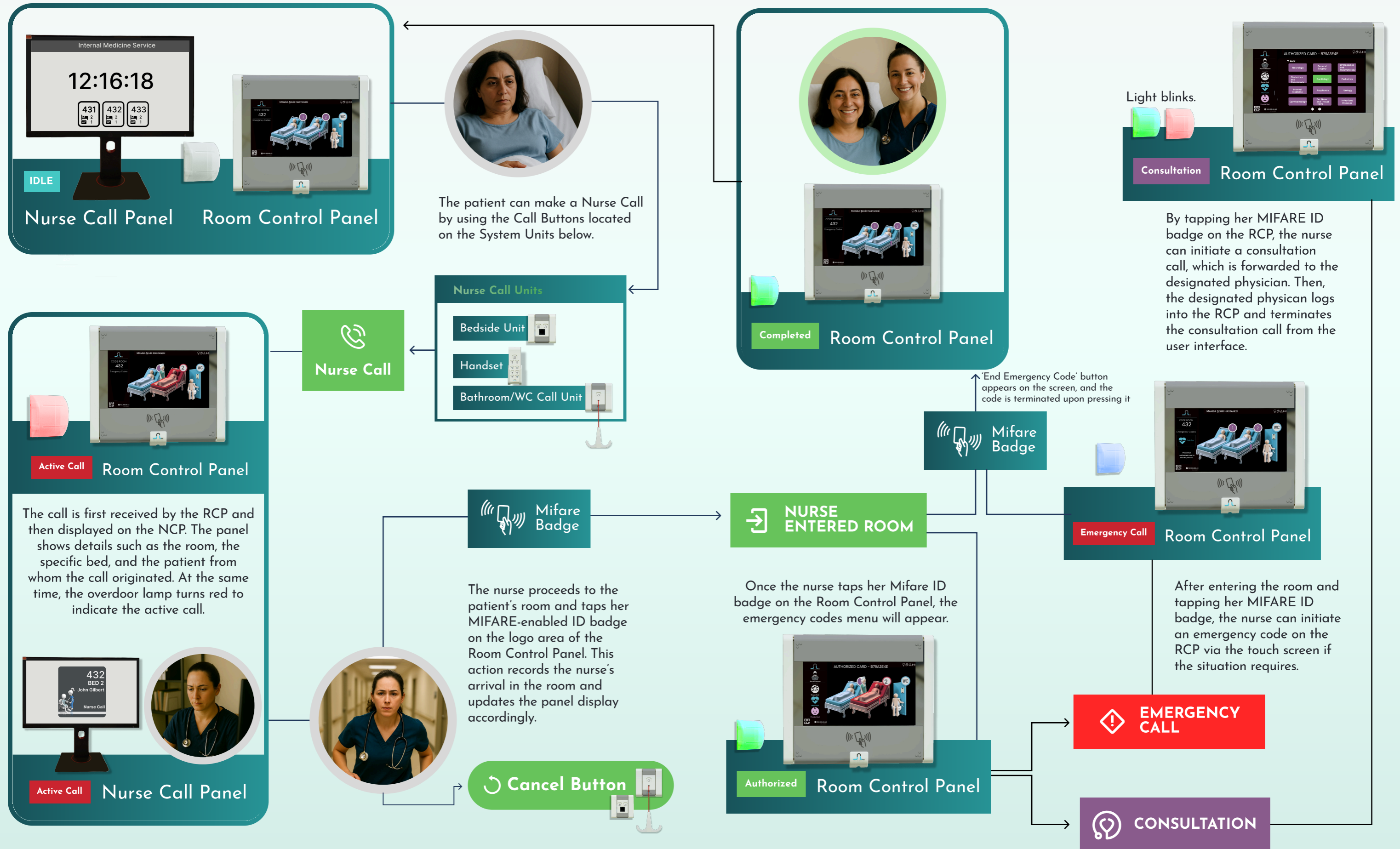
Specific staff members can be selected to analyze their responsiveness to calls, response times, and historical performance. The system provides time-based charts showing initiated calls and response actions, enabling management to objectively evaluate staff performance.



With this advanced reporting and analytics infrastructure, hospitals can measure both service quality and staff performance, allowing resources to be managed in the most efficient way.

FROM CALL TO CARE: THE NURSE CALL JOURNEY

FROM CALL TO CARE: THE NURSE CALL JOURNEY



SOFTWARE INTEGRATIONS / SOLUTIONS

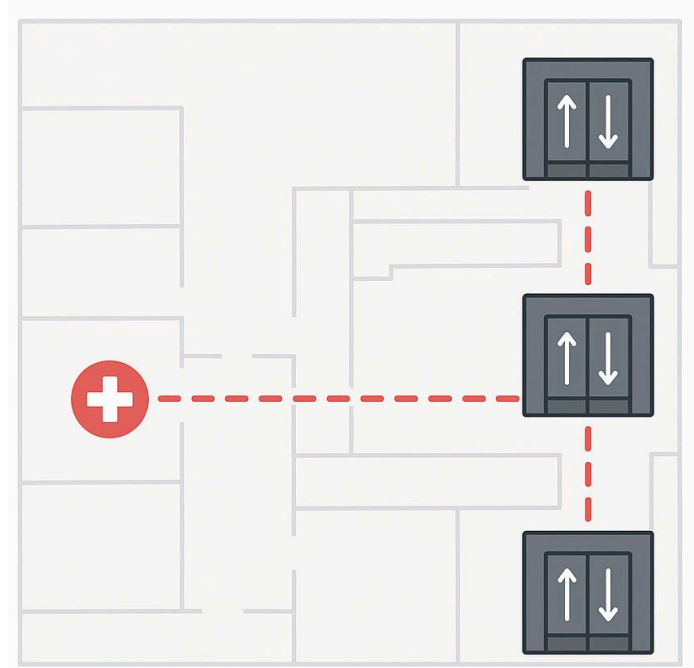
Our system seamlessly connects with various hospital technologies to enhance efficiency, safety, and response times. These integrations ensure that staff can act quickly, monitor assets in real-time, and coordinate operations effortlessly. Designed for scalability, new features and systems can be added as your hospital needs evolve.

Elevator Integration

When an emergency code is triggered, all elevators are automatically directed to the corresponding floor.

Key Benefits:

- Enables staff to respond quickly and safely during critical situations.
- Streamlines hospital workflow during emergencies.



DECT Integration

When a nurse call or emergency code is initiated, notifications are instantly sent to DECT phones.

Key Benefits:

- Immediate notification reduces response time.
- Staff can access calls and emergency codes via mobile devices or DECT handsets.

Simplifies coordination of hospital operations.

SOFTWARE INTEGRATIONS / SOLUTIONS

RFID Integration

Room Control Panel can be optionally equipped with a Location Scanner feature, enabling RF-based tracking without the need for additional hardware.

Key Benefits:

- Reduces the number of RFID tracking devices required.
- Eliminates extra cabling and installation complexity.
- Provides real-time location monitoring for efficient asset management.

Note: Future integrations such as HIS, IoT sensors, and EHR can be seamlessly added.



ADAPTABLE NURSE CALL SOLUTIONS

All products and solutions provided by LNL Technology—from product development, design, and production to setup and after-sales services—are carried out entirely in-house. With a strong R&D team, dedicated field installation and maintenance staff, and in-house production capabilities, LNL delivers turnkey healthcare technology solutions. With more than 15 years of engineering and project expertise, LNL Technology has become a reliable partner in the health sector.



Our portfolio includes RFID Location Tracking Systems, Nurse Call Systems, Medical Isolated Power Systems, Operating Room Control Panels, and Emergency Code Systems, delivered to City Hospitals within the scope of Public Private Partnership (PPP) projects.

OUR MISSION

To design, develop, and deliver end-to-end healthcare communication and monitoring systems that empower healthcare professionals, support faster and safer patient care, and meet the evolving needs of modern hospitals. With our expertise in nurse call systems, RFID tracking, wearable technology, and AI integration, our mission is to be a trusted partner for healthcare institutions worldwide.

OUR VISION

To become a global leader in innovative healthcare technologies by pioneering smart, wearable, and AI-driven solutions that enhance patient safety, improve clinical efficiency, and seamlessly integrate with hospital systems. Our vision is to shape the future of healthcare communication and monitoring with reliable, user-friendly, and forward-looking technologies.

REFERENCES

LNL, Callvision Nurse Call Systems have been successfully implemented in many hospitals both in Türkiye and abroad, supporting healthcare providers in delivering safer and more efficient patient care.

These are just a few of our major projects demonstrating LNL, Callvision's wide adoption in the healthcare sector



Manisa Integrated Health Campus



Kayseri Integrated Health Campus



Turkistan Integrated Health Campus, Kazakhstan



Konya Integrated Health Campus