



Integration of Security  
Systems & Surveillance

**Products Catalogue**  
2017-2018

[www.13s.ca](http://www.13s.ca)



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## Introduction

In 2003, i3s was created as a subsidiary of GMS Security, a family owned business serving the security industry since 1981 in the Ottawa-Outaouais region.

i3s specializes in the health care industry including hospitals, long term care facilities and nursing homes. i3s has built a solid reputation with all the hospitals in the Ottawa and surrounding area for delivering excellent customer service, supported by our quality trained staff. We offer a complete line of quality and scalable nurse call systems to streamline communication between the resident or patient and nursing staff in order to minimize risks, improved efficiencies and patient care. i3s has become a leader by providing unified communications in a single system, meeting the needs of your patients or residents. i3s recognizes the importance of getting the right message, at the right place and at the right time, thus offering better care delivery.



Integration of Security  
Systems & Surveillance

A sister company of



# Wireless Phone

Voice quality  
you're sure to  
hear about.

Ascom d63

## Ascom d63. Quite possibly the world's hardest working handset.

### Wideband audio—the Ascom d63 advantage

The Ascom d63 features 'wideband audio', extended bandwidth of 50Hz – 7,000Hz that delivers exceptional sound quality that goes beyond traditional telephony. And it's backward compatible, achieving outstanding sound quality even when communicating with conventional devices. The Ascom d63 — voice quality you're sure to hear about.

### Easy integration for smarter messaging

The Ascom d63 is designed to integrate and work seamlessly with third-party systems\*. This is made possible by Ascom's Unite middleware, which enables two-way texting and interactive messaging directly on the handset. Ascom Unite can also be configured to filter, sorts and prioritizes alerts — then ensures they are displayed on the Ascom d63's bright, easy-to-read color screen.

### Personal alarms

The Ascom d63 is more than a telephony and messaging handset. It also features an alarm button that can be used/ configured to trigger duress calls. DECT location functionality means colleagues are notified of the handset's location — making the Ascom d63 particularly suitable for lone workers. Infra red location enables room level accuracy.

### Ascom d63:

- Wideband audio
- Interactive messaging
- Prioritized and color-coded messages
- DECT Security (encryption)
- Centralized management
- Easy registration
- Shared phone
- Bluetooth
- Alarm button
- DECT location
- IR location



\* Supported workflows, interfaces and message types are specified in and subject to limitations described in Unite product documentation. Not all configurations may be available in all countries where the d63 is sold.

**ascom**

## ASCOM d63 FEATURES AT A GLANCE

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>• Wideband Audio</li> <li>• Centralized management</li> <li>• Easy registration</li> <li>• Interactive messaging</li> <li>• Priority handling of calls and messages</li> <li>• Shared phone</li> </ul> | <ul style="list-style-type: none"> <li>• Push-to-talk (PTT)</li> <li>• Push-button alarm</li> <li>• Support for graphical messaging</li> <li>• 18 languages + 1 downloadable</li> <li>• User and system profiles</li> <li>• DECT and IR location</li> </ul> | <ul style="list-style-type: none"> <li>• Bluetooth</li> <li>• Dynamic output power</li> <li>• Color-coded messaging</li> <li>• Display messages upside down</li> <li>• Pre-programmed messages</li> <li>• Up to 5 Emergency numbers</li> </ul> |
|---|---|--|

## ASCOM d63 VARIANT FEATURE COMPARISON

	Ascom d63 Talker	Ascom d63 Messenger	Ascom d63 Protector
Centralized management	✓	✓	✓
Bluetooth	✓	✓	✓
Advanced messaging		✓	✓
DECT location		✓	✓
IR location			✓
Push-button alarm			✓

## ASCOM d63 TECHNICAL SPECIFICATIONS

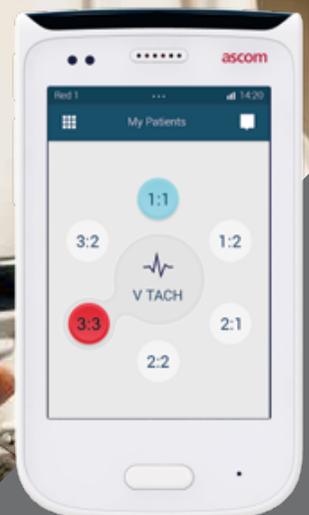
<p><b>Dimensions</b> 137 x 52 x 21.5 mm.</p> <p><b>Weight</b> (incl. battery &amp; clip) 113g.</p> <p><b>Display</b> 31 x 41 (2,0 inch).TFT.</p> <p><b>Color:</b></p> <p><b>BLACK:</b> Talker, Messenger, Protector</p> <p><b>WHITE:</b> Messenger only</p>	<p><b>Audio</b></p> <p>Ring signal: Adjustable in 8 steps.</p> <p>Earpiece: Adjustable in 8 steps of 3dB each.</p> <p>Max. sound ring signal level: 88 dBA @ 10 cm.</p> <p>Loudspeaker: DSP assisted duplex loudspeaker.</p>	<p><b>Phonebook</b></p> <p>Central phonebook: unlimited no. of entries.</p> <p>Company phonebook: 1000 entries.</p> <p>Local phonebook: 250 entries.</p> <p>Selectable ring tones per contact.</p>
<p><b>User interface</b></p> <p>High resolution, Color TFT display 262K individual colors. 240 x 320 pixel backlit LCD</p> <p>Indicator: Sound indicates incoming call/message.</p> <p>Vibration: Incoming call/message.</p> <p>Buttons &amp; Keys: 3 soft keys, 5-way navigation key, off-hook key, on-hook and power on/off on the same key, numerical keys, sound off key, volume up/down, alarm/multifunction button, mute button.</p>	<p><b>Telephony</b></p> <p>Indication: 15 pre-set ring signals + 10 customizable, vibration.</p> <p>Answer call: Button press or auto answer.</p> <p>Call list storage capacity: 25 received, dialed and missed calls, with time stamp. Emergency numbers: Up to 5 configurable, no need to unlock keypad before dialing.</p>	<p><b>Security and encryption</b></p> <p>Full support of the DECT Security EN300 444 feature N35, as specified by the DECT forum.</p>
<p><b>Languages</b></p> <p>18 languages: Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese (Brazilian), Russian, Slovakian, Spanish, Swedish and Turkish + 1 downloadable.</p>	<p><b>Messaging</b></p> <p>Storage capacity: Up to 20,000 characters, 30 received/sent messages. Messages from handset to handset 160 characters. Beep depending on urgency and customizable beeps.</p> <p>Pre-programmed messages (pre-set or personal).</p>	<p><b>Bluetooth</b></p> <p>Supports handsfree profiles. See data sheet for tested headsets.</p>
<p><b>Radio</b></p> <p>DECT protocol detection: Automatic detection and configuration for US DECT and EU DECT at initial registration.</p> <p>Frequency range: EU (1880-1900 MHz), US (1920-1930 MHz), L A (1910-1930 MHz), BR (1910-1920 MHz), Other (1900-1920 MHz).</p> <p>Modulation: GFSK.</p> <p>Channel spacing: 1.728 MHz.</p> <p>Antenna: Integral. Sensitivity: -93 dBm.</p> <p>Radiated power: EU 250 mW, US 100 mW.</p>	<p><b>Environmental</b></p> <p>Operating temperature: 0°C to +40°C.</p> <p>Storage temperature<sup>1</sup>: -20°C to +60°C.</p> <p>Enclosure protection: IP44, IEC EN60529.</p> <p>Immunity to electromagnetic fields: 3V/m EN61000-4-3.</p> <p>Immunity to ESD: 4 kV contact discharge, 8 kV air discharge (EN61000-4-2).</p> <p>Free fall test, standard product: IEC 60068-2-32, procedure 1, dropped 12 times from 1 meter.</p> <p>Ascom approves 12 drops from 1.5 meters.</p>	<p><b>Battery</b></p> <p>Type: Li-polymer.</p> <p>Speech time: 20 hrs.</p> <p>Stand-by time: 240 hrs without activated screensaver.</p> <p>Charge time: &lt; 4 hrs.</p> <p>Discharge/charge cycles: &gt;=80% capacity left after 400 full charge/discharge cycles.</p>
<p><b>Connectors</b></p> <p>Multi-purpose connector for battery charging, software download and configuration.</p> <p>Standard 3.5 mm headset connector.</p>	<p><b>Compliance</b></p> <p>Compliance to EU, US, Canadian and Australian standards – please see the data sheet.</p>	<p><b>Location</b></p> <p>DECT location and Infra Red (IR) location.</p>
		<p><b>Accessories</b></p> <p>See Accessories sheet.</p>

<sup>1</sup>Storing Li-polymer batteries at high temperatures can rapidly and permanently reduce capacity.

ascom

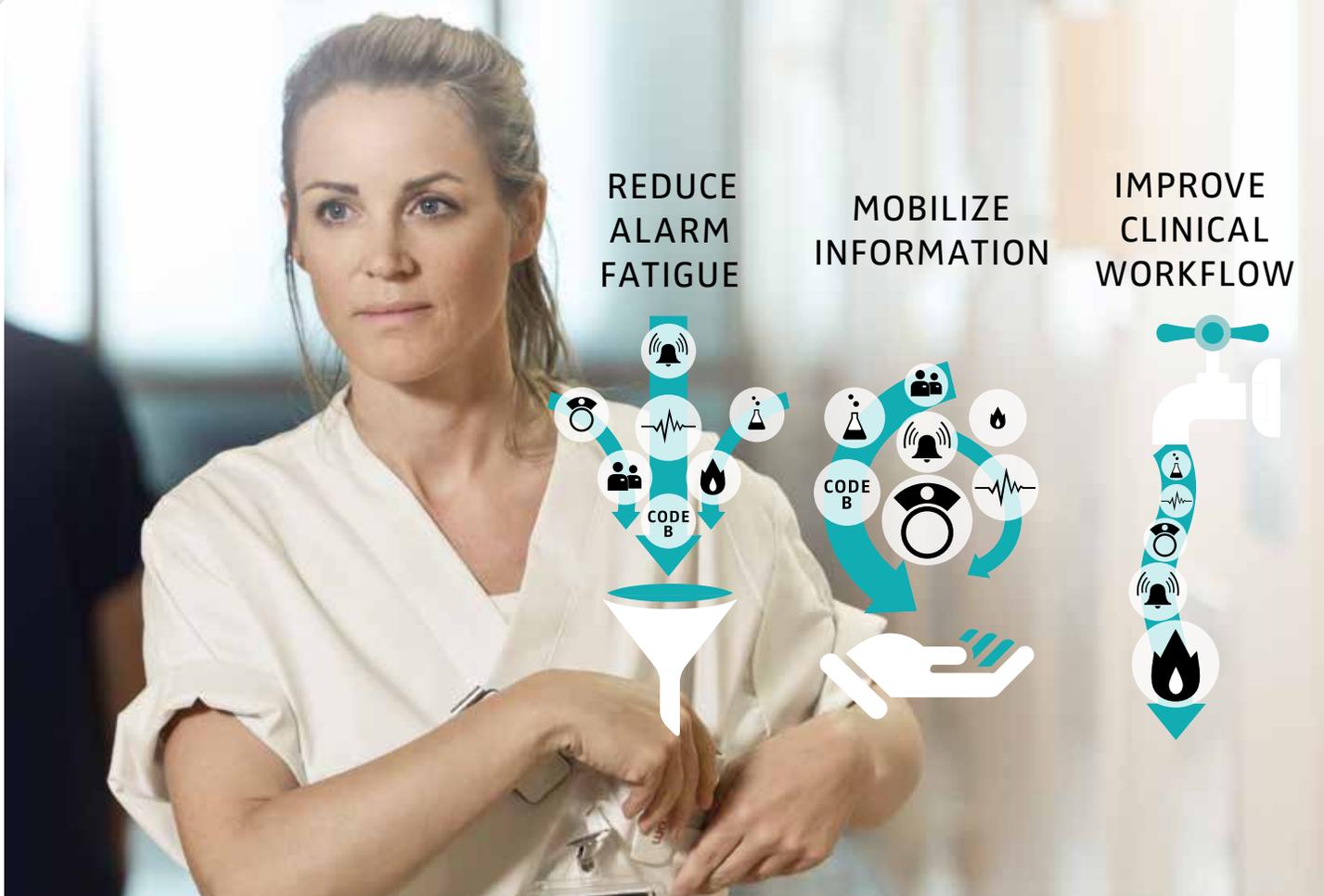
# Inspired by nurses

Developed for increased  
patient safety & satisfaction



**myco**  
At the heart of care

[www.ascommyo.com](http://www.ascommyo.com)



## Struggling with the equation of limited resources and high demands on the quality of care?

### Increasing aging population – a global challenge for healthcare

The increasing aging population will put higher and higher demands on the healthcare systems and there will be fewer and fewer caregivers available per patient. The only way to deal with this inevitable scenario is to utilize available resources in the most efficient way. To achieve this, workflows must become more integrated and more intelligent. Ascom Myco combined with Ascom Unite middleware and third party apps is an effective way to do this.

### Inspired by nurses

Nurses are the everyday heroes in healthcare and deserve their very own companion to assist them in their jobs – that is why we developed Ascom Myco™ (My companion). It is a truly purpose-built smartphone for healthcare, providing caregivers and clinicians with the information they need where it matters the most – at the heart of care.

But Ascom Myco is much more than a purpose-built smartphone, it is an important factor when solving the equation of limited resources and high demands on the quality of care.

### Different roles and different challenges

Ascom Myco is developed for nurses, caregivers and clinicians, but it affects and involves other functions in healthcare as well, such as hospital management, IT and consultants. By collaborating with healthcare facilities and applying user-centric design methods, we have developed Ascom Myco with the whole healthcare team in mind.

When developing Ascom Myco, our vision was to contribute to giving nurses a chance to spend more time with their patients and thereby increasing patient safety and satisfaction. To reach our vision we focused on three important areas:

- Reduce alarm fatigue
- Mobilize information
- Improve clinical workflows

### Did we succeed?

Get a first glance of what Ascom Myco can do for you by looking through this overview and find out more details at

[www.ascommyco.com](http://www.ascommyco.com)

# Designed for you in every detail

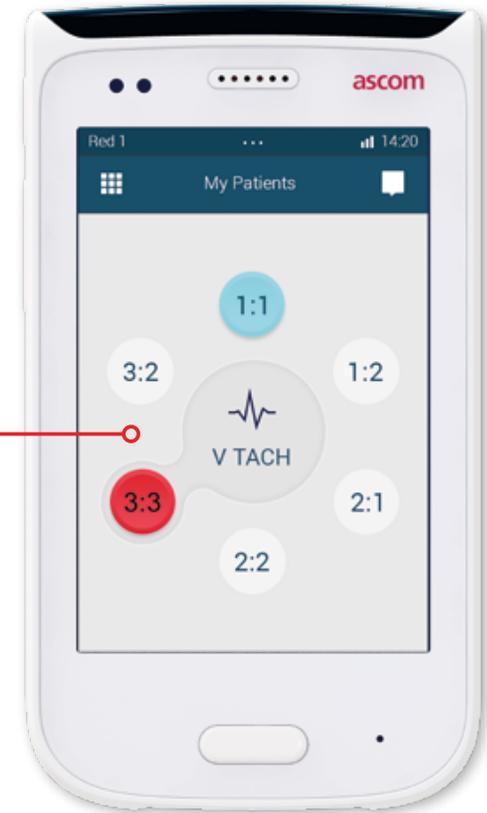
## UNIQUE TOP DISPLAY

- Optimizes the handset for hands-free operation, i.e., you know how to respond without having to interact with the handset.
- “At a glance” notification of highest priority alert with sufficient context to immediately understand the situation.
- Color coded LED “priority” beacon (complying with medical alarm standards) for easy recognition and fast reaction.



## MY PATIENTS – PATIENT CENTRIC USER INTERFACE

- Visibility of multiple alert status helps to prioritize tasks and to know when assistance is needed.
- Immediate visibility of assigned patients overview after logging into the handset.
- Patient-centric home screen provides vital “situation overview” of all assigned patients.
- Easy to accept/reject/forward alerts – supported by preconfigured auto-escalation chain.



## APPLICATION HANDLING

- Segregation of essential apps from non-essential apps, so that core apps are given higher priority to system resources.
- App supervision module suppresses non-essential apps to optimize performance of core apps.
- “Sandboxing” functionality safeguards patient data within the apps and prevents unauthorized access.
- Supports 3rd party apps, i.e., compatible with thousands of Android apps, however, mission-critical communication always overrides all other applications.

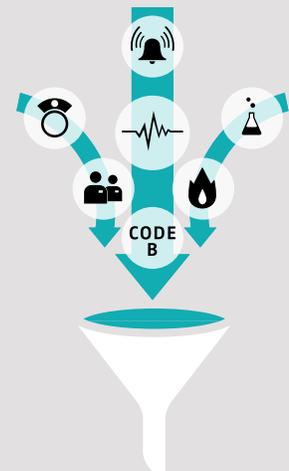


## Reduce alarm fatigue

*Did you know that alarm fatigue is becoming a patient security risk in healthcare?*

**This is how Ascom Myco can help reduce alarm fatigue by intelligent alarm handling:**

- The patient-centric overview allows the nurse to focus on her assigned patients. Alerts from the assigned patients go directly to the nurse’s handset instead of being broadcast to everybody in the ward.
- Simplified context-rich alert notification ensures an immediate understanding of what has happened, where and the priority level.
- Multi-modal indicators, including sound, vibration, color and text, engage more senses and enrich the context making each alert easier to understand.
- Visualization of multiple alerts status and the ability to quickly and easily accept, reject or forward alerts, backed by auto escalation.



## Want to be sure that your investment delivers its optimal potential?

Ascom Myco is durable and will certainly outlive consumer grade devices. In addition, Ascom offers comprehensive product protection plans, professional repair, and backward compatibility with older models. Spares and accessories are kept available for a long time after the models are discontinued. We also offer complimentary swap stock services to minimize downtime for our customers. Simply put, Ascom Myco is guaranteed to deliver a greater return on your investment and peace of mind.

Ascom Product Protection Services is protecting your investment. It includes knowledge-based support and qualified expertise, maintenance and repair or replacement of all equipment that is included in the supported solution.

You also get access to all software updates for software products purchased including new features to optimize operational workflow.

With the Ascom PPS you can rest assured that the experts will help troubleshoot issues with your solution and you will keep your technology current and up-to-date.

How important is it to you that your system is fully operational at all times? To us, it is everything!



### ASCOM INTEROPERABILITY PROGRAM

## Tired of systems that lock you in and limit your options?

The Ascom Interoperability Program provides maximum freedom and flexibility. Our Interoperability Program is based on decades of expertise and experience, built on numerous installed systems in cooperation with our partners: all with one common goal – to decrease the complexity of managing integrated multivendor solutions.

### Freedom and flexibility

We can empower our customers with the freedom to build innovative solutions by combining the best offerings from multiple vendors. It goes without saying that we also enable our customers to evolve their systems over time, resulting in a greater return on investments.

### Seamless system integration

We work actively along with partners, leading application developers, mobile network operators, WLAN infrastructure suppliers, and PBX vendors, to mention a few. Together, we perform verification testing and certify that our products and solutions interoperate harmoniously, as one seamless system. The purpose of the Ascom Interoperability Program is to proactively develop and certify interoperability between Ascom applications and other companies' products.

'Certified Interoperability' delivers full feature visibility and trouble-free deployment for Ascom solutions when implemented together with systems from other vendors.

- Visibility – Documented functionality and performance for a multi-vendor solution creates transparency, insurance of value and confidence.
- Cost-effectiveness – No need to initiate functional testing at the partner and/or in the customers' environment at deployment.
- Assurance – Our certified partnerships ensure full multi-vendor cooperation to resolve issues that may arise.
- Future Proof – Ascom solutions grow with our customer's needs and can support most enterprise communications platforms.

The program gives a reliable and trusted verification of the interoperability of the joint solution, which makes a good base for a successful customer deployment.

# **Mass communication**

## **Overhead Paging**

# SUPERIOR INTELLIGIBILITY EVERY DAY AND IN TIMES OF CRISIS

CareHawk® is a leading provider of Life Safety Communication Platforms for **Education, Corrections, Healthcare, Industrial and Commercial facilities** across North America.

CareHawk delivers state-of-the-art **life safety paging, intercom and mass notification solutions** designed for innovation, compatibility, expansion, integration and **superior audio intelligibility**.



## A Unique Hybrid Communication Platform

- The CH1000(LT) is a **hybrid platform** designed to use standard CAT5(e), CAT3, shielded or unshielded cable. There is no need to replace existing cabling. Its distributed architecture design **reduces cable and conduit materials by up to 2/3rds of a traditional system** resulting in significant savings of both installation and material costs.
- Control the CH1000(LT) with user-friendly software using a facilities Local Area Network. **Remote support and access is available from anywhere**, saving labor costs and minimizing service interruptions.
- Supervised paging, high availability paging and fault tolerant amplifiers.
- **District wide paging and mass notification** capabilities ensure important messages are delivered in a timely manner to one or multiple facilities district wide.
- Quality built in North America with an **industry leading 5 year warranty**.

## Everyday and Emergency Communications

- **Everyday communications** including, scheduling announcements, visual alerts, tone alerts, bells, music, and more.
- **Emergency communications** including custom pre-recorded announcements (lockdowns, hold & secure, weather alerts, etc...), visual alerts, tone alerts, call switches, panic buttons, security sensors, and more.

## Streamline System Connectivity

- **Easily connect access control and security systems** with accessories like cameras, speakers, panic buttons, security sensors, PC software, analog or IP phones, third party PBX or cellular phones.
- Keep facilities on-time and in-sync with **wired and wireless synchronized clocks** in digital or analog formats, master clocks, controllers and accessories.



Current **DUKANE MCS350 and StarCall** owners will continue to be supported with warranty and out of warranty spare parts and repairs.

New DUKANE products are once again manufactured and designed with the original reliability and innovation that made DUKANE an industry leader in the marketplace.



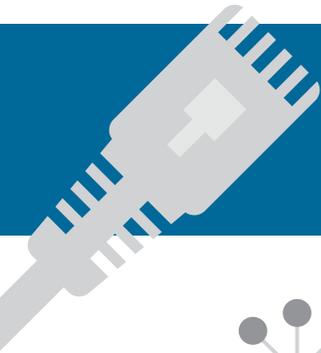


The most important feature in a life safety communications system is **audio intelligibility**.

The message must be not only loud enough but understandable by the listener. To achieve **superior audio intelligibility** the CH1000(LT) Safety Communication Platform uses modern **Class D amplifiers** with a built-in **Digital Signal Processor (DSP)** to process and filter the clarity and quality of audio. This processing filters non-voice frequencies that generate noise usually picked up from other building systems or lighting. **Unlike IP paging technology, no latency or jitter will distort the message.**

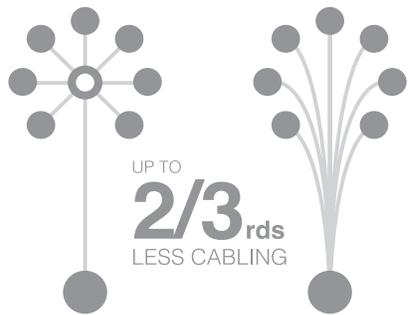
In an emergency, **speed is important.**

The CH1000(LT) allows users to add pre-recorded WAV files. Emergency announcements can be pre-recorded in a calm, clear and concise manner. **Trigger these announcements via panic buttons, security sensors, PC apps, analog or IP phones, third party PBX or cellular phones.**



Advanced connectivity, **retrofit virtually any system.**

The CH1000(LT) is designed to use CAT5(e) cable, but can reuse existing **shielded or unshielded system cabling eliminating the expense of replacing existing infrastructure.**



DISTRIBUTED VS. CENTRALIZED

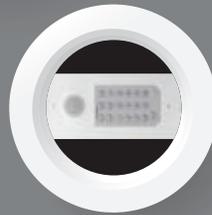
Distributed architecture **reduces material and labor costs significantly.**

The CH1000(LT) employs a distributed architecture design **reducing cable and conduit materials by up to 2/3rds of a traditional system** resulting in significant savings of both installation and material costs.

Run a **single CAT5(e) cable from the CH1000(LT) cabinet up to 2700 ft.** to a Security Switching Card (SS16/SS32) for further distribution to endpoints such as speakers, call switches, panic buttons and more.



# N-8000 Series IP Intercom System



Schools



Corporate Buildings



Commercial Buildings



Hospitals / Institutions



Parking Garages



Transportation



# Features & Functions

## System Features

- System configuration by LAN with intuitive software
- Master-to-Master and Master-to-Sub station communication
- Choice of four wiring configurations: CAT5, 2-core shielded cables, 2 wires or 4 wires
- Integration with access control, voice alarm, CCTV and other such systems
- Time correction
- Operation and stream logs
- System diagnosis



## Basic Communication Features

- Handset or hands-free conversation
- Recall
- Redial
- Camp on busy
- Mic-Off
- Remote response
- Single-digit dialing
- Call transfer
- Comprehensive call-forwarding features
- Three-party conferencing

## Overview

TOA's unique N-8000 IP Intercom System is an integrated audio communication system that employs packet audio technology over the IP network to achieve fast, accurate communications with optimal security and reliability. Applications range from conversation, paging broadcasting and BGM broadcasting to emergency paging and broadcasting, audio triggering and other security functions.

## System scalability

The cost-effective N-8000 System can be configured to a scale that meets users' specific requirements, however small or large. As few as two stations can be linked in a small system, or up to 192 components can be interconnected to operate as many as 3,072 stations.

## Borderless communications

Since the N-8000 System is IP network-compatible, it supports linkage between local areas and other locations worldwide. Centralized PC control with dedicated TOA software enables connection of all exchanges, IP stations and interface units with LAN, WAN and optical fiber networks.

## Integrated communications and safety features

Efficient centralized control integrates various systems to handle communications ranging from duplex conversations between stations to paging broadcasts, scheduled broadcasts and BGM broadcasting. The N-8000 System also provides master control for connection to users' per-existing intercom, alarm, surveillance, door entry/departure authorization and other systems as well as to telephone lines.

2 N-8000 Series IP Intercom System

## Easy installation and maintenance

The surprisingly easy system installation requires a minimum of on-site work, since existing wiring can be used and new components simply plugged in. The dedicated TOA software includes a maintenance application for system status monitoring, troubleshooting and logging as well as for system updating and remote control.

## Long-term cost-effectiveness

Since N-8000 software and all calls between stations are free of charge, users enjoy the benefit of significantly lower telephone bills. Overall ownership costs are also reduced by the open-ended system architecture and network scalability permitting individualized configuration.

## Superior sound quality

The N-8000 system provides high-quality audio for BGM, paging and recording applications.

## Full logging options

The complete menu of operation and stream logging options includes operation verification, voice communications and line supervision logs, all of which can be archived easily for instant recall.

## Internal and external system security

The N-8000 System is equipped with both a round-the-clock internal surveillance function to minimize downtime and a proprietary packet audio protocol to prevent wiretapping.



# System Specifications

## LAN Connections

Max. 192 units (total no. of Exchanges, Interface Units and IP stations)

## Station Connections

Max. 3,072 stations (16 stations connected to each of 192 Exchanges)

## Voice Links

Max. 768 links (4 links for each of 192 connected N-8000EX Exchanges)

## Paging Zones

Max. 192 zones

## Paging Outputs

Max. 384 outputs (2 outputs for each of 192 connected N-8000 Exchanges or Multi-Interface units)

## BGM

Max. 8 channels (number of channels selectable from a station)

## PBX Interface

Max. 384 units (2 units for each of 192 connected Multi-Interface units)

## Tie-Line Interface

Max. 384 units (2 units for each of 192 connected Multi-Interface units)

## Outside-Line Interface

Max. 192 units

## Telephone Interface

Max. 192 units (when 192 Telephone Interface units are connected)

## External Contact Output

**N-8000MI**  
Max. 3,072 (16 outputs for each of 192 connected Multi-Interface units)

**N-8000DI**  
Max. 6,144 (32 outputs for each of 192 connected Direct Select units)

**N-8000AF**  
Max. 1,536 (8 outputs for each of 192 connected Audio Interface units)

## External Contact Input

**N-8000MI**  
Max. 3,072 (16 inputs for each of 192 connected Multi-Interface units)

**N-8000DI**  
Max. 6,144 (32 inputs for each of 192 connected Direct Select units)

**N-8000AF**  
Max. 1,536 (8 inputs for each of 192 connected Audio Interface units)

## [Network Relations]

### Audio Delay Time

80 ms/320 ms; changeable

### Connection Delay Time

Max. 1 second (when 191 multicast paging destinations are set)

### Bandwidth Used

Max. 2.08 Mbps (one-way)/unicast paging to 16 locations  
Max. 130 Kbps (two-way)/per call

## Permits the creation of a wide variety of system configurations through the free combination of individual interface units

- PBX Connection
- Tie-line connection
- External equipment control
- Remote door control
- External input broadcast
- Paging interlock contact output control
- Call station indicator
- Remote dialing
- Contact bridge
- Office line connection
- BGM
- Paging
- Conversation recording
- CCTV interlock
- Direct select
- System diagnosis
- Time correction
- Time signal

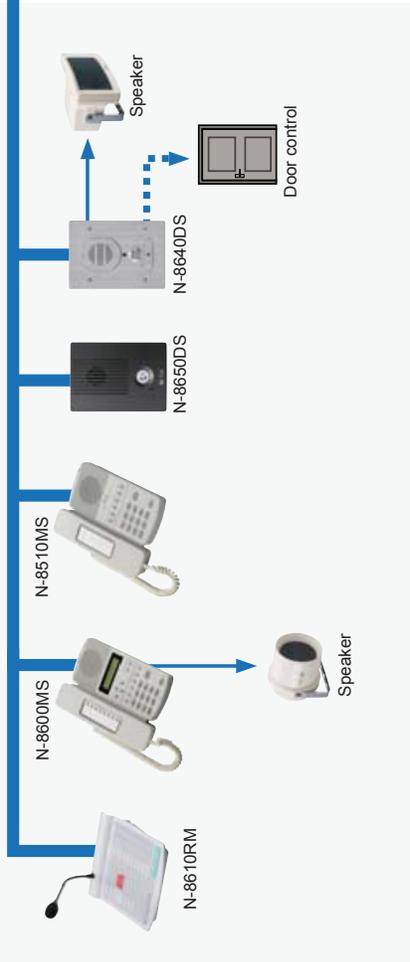
## A variety of convenient functions

- Voice calling
- Automatic connection
- One-touch dialing
- Automatic call forwarding
- Emergency call interruption
- Emergency all-group paging
- Emergency message broadcasts
- Three-party conference
- Emergency paging
- Hands-free conversation
- Continuous call
- Call hold
- Busy call
- Paging call
- Paging response
- Scan monitor
- Door remote
- Audio trigger

System Overview on page #4.

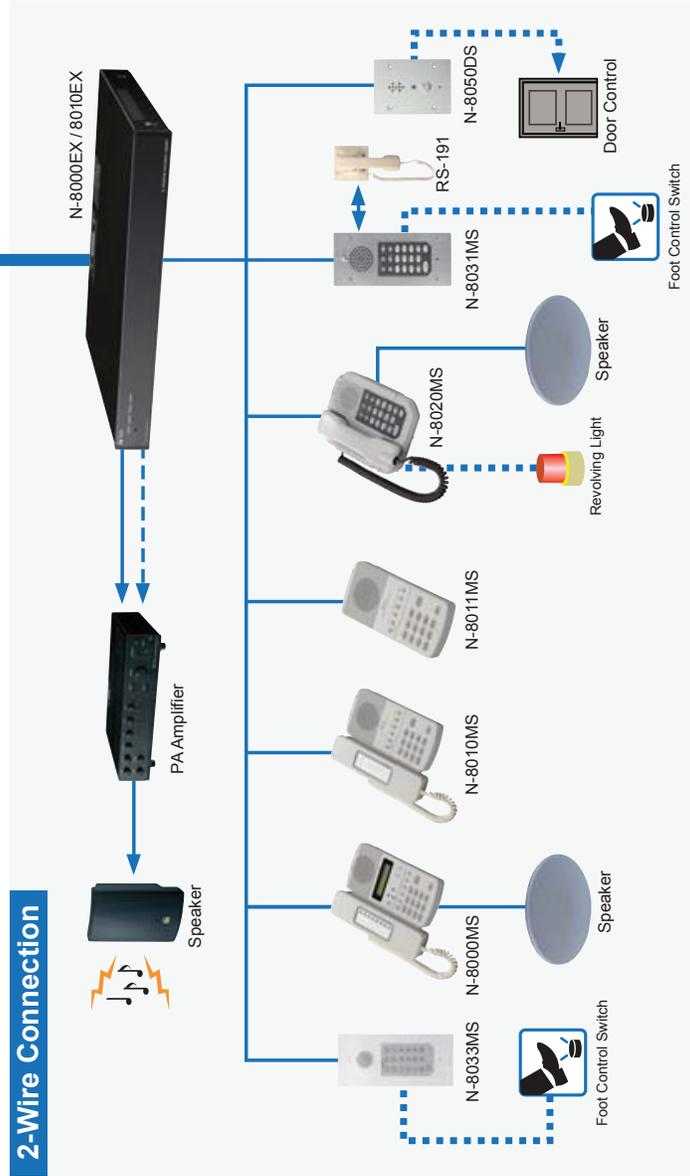
# N-8000 System Overview

## Direct Network Connection



LAN

## 2-Wire Connection

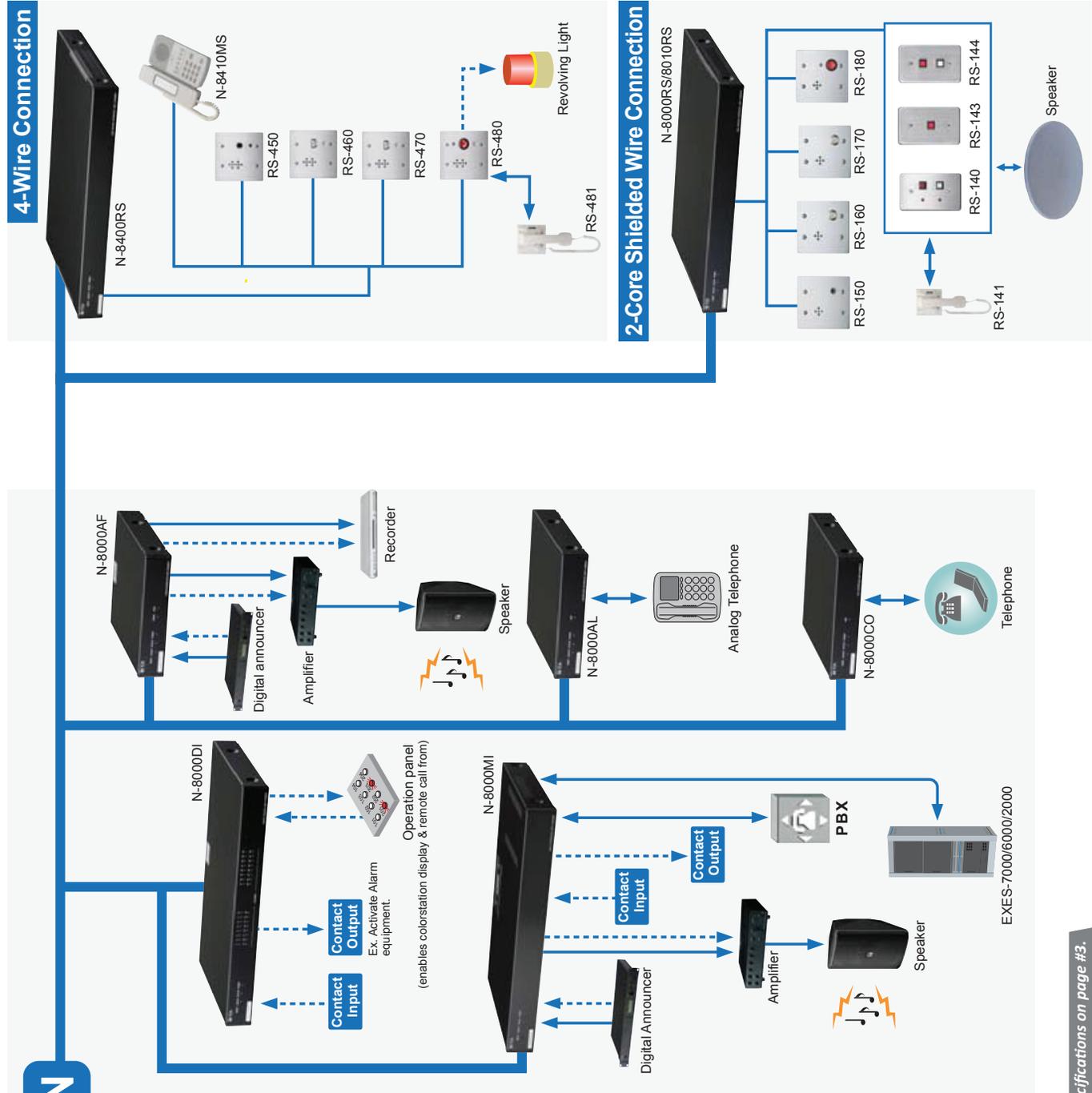


System Specifications on page #3.

4 N-8000 Series IP Intercom System

System Specifications on page #3.

# WAN



## 4-Wire Connection

## 2-Core Shielded Wire Connection

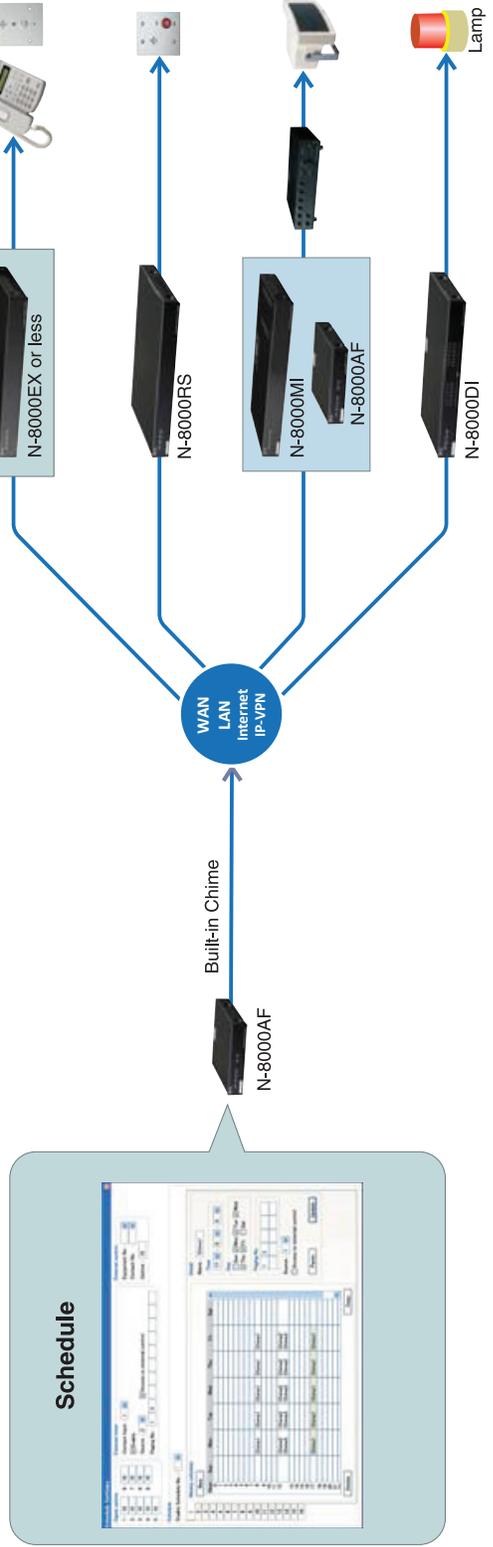
# Application Examples



## TOA has your school's security locked down!

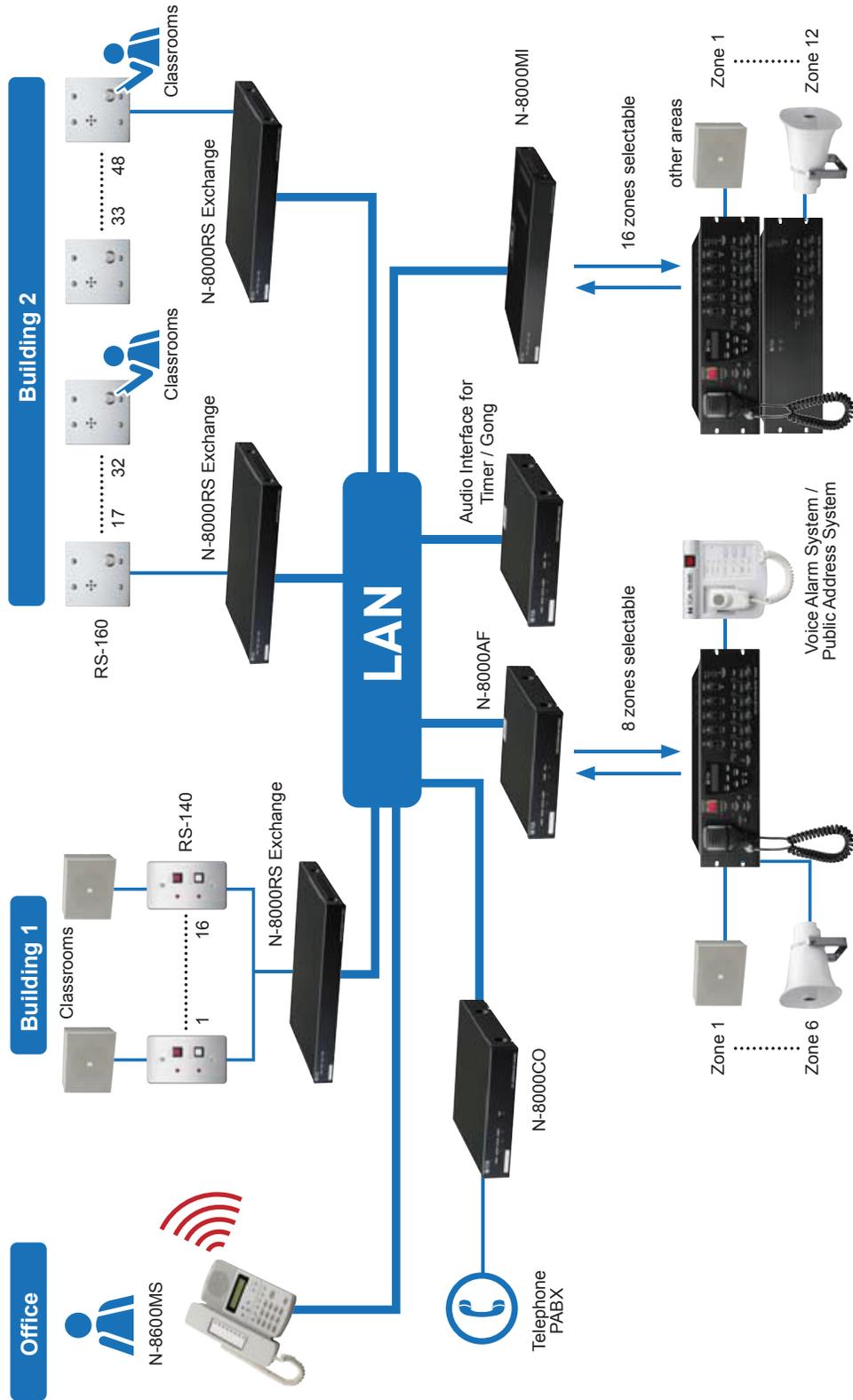
- Building Security
- Door control, including: building access, lock down
- Bell scheduling
- Classroom communication
- Multiple building communications
- LAN/WAN capabilities
- Paging, emergency broadcast, voice alarm
- PC Control

**School Time Signal Function** Enables the built-in chime of the N-8000AF or an externally connected audio source to be broadcast to stations and PA equipment according to a preset schedule. The time signal function allows schools to manage the schedule of their bells (end and start) for class changes, breaks. The N-8000AF also allows control of an external/optional digital recorder, such as TOA's EV-20R, to play pre-recorded (into EV-20R) special tones or selected melody, on schedule.



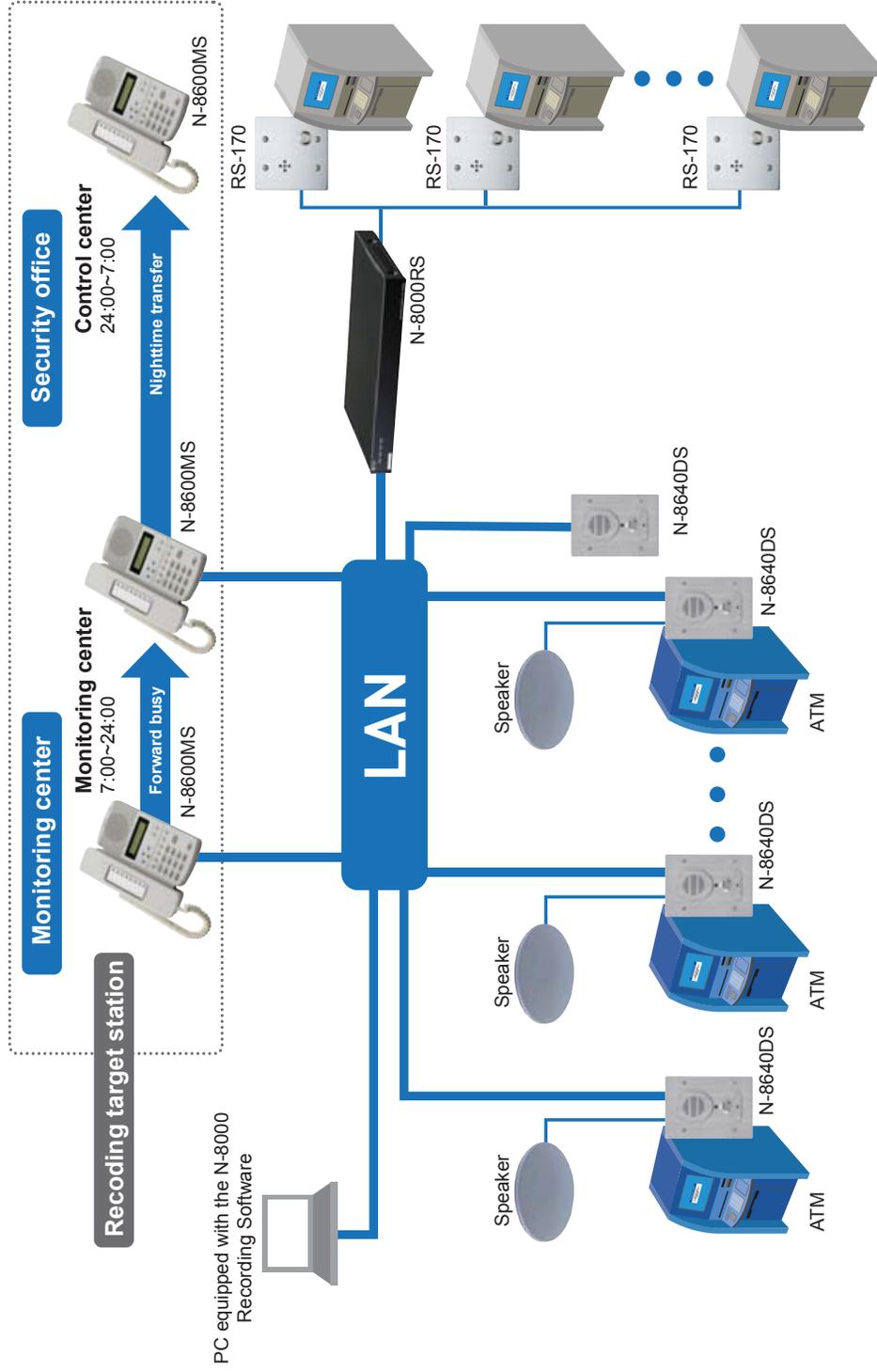
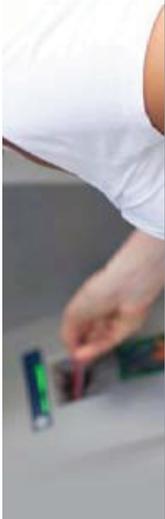


# School



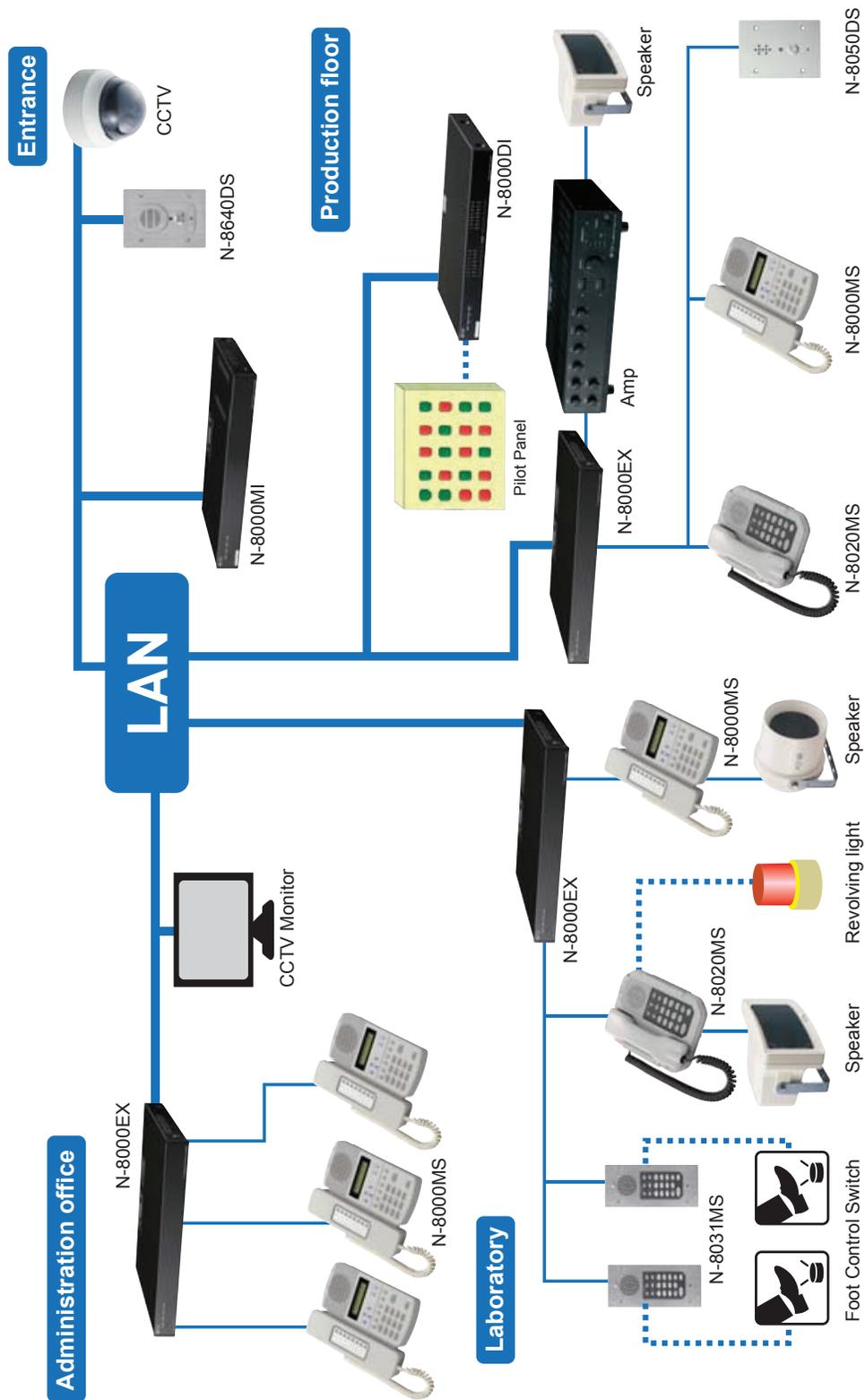
# Application Examples

## Bank



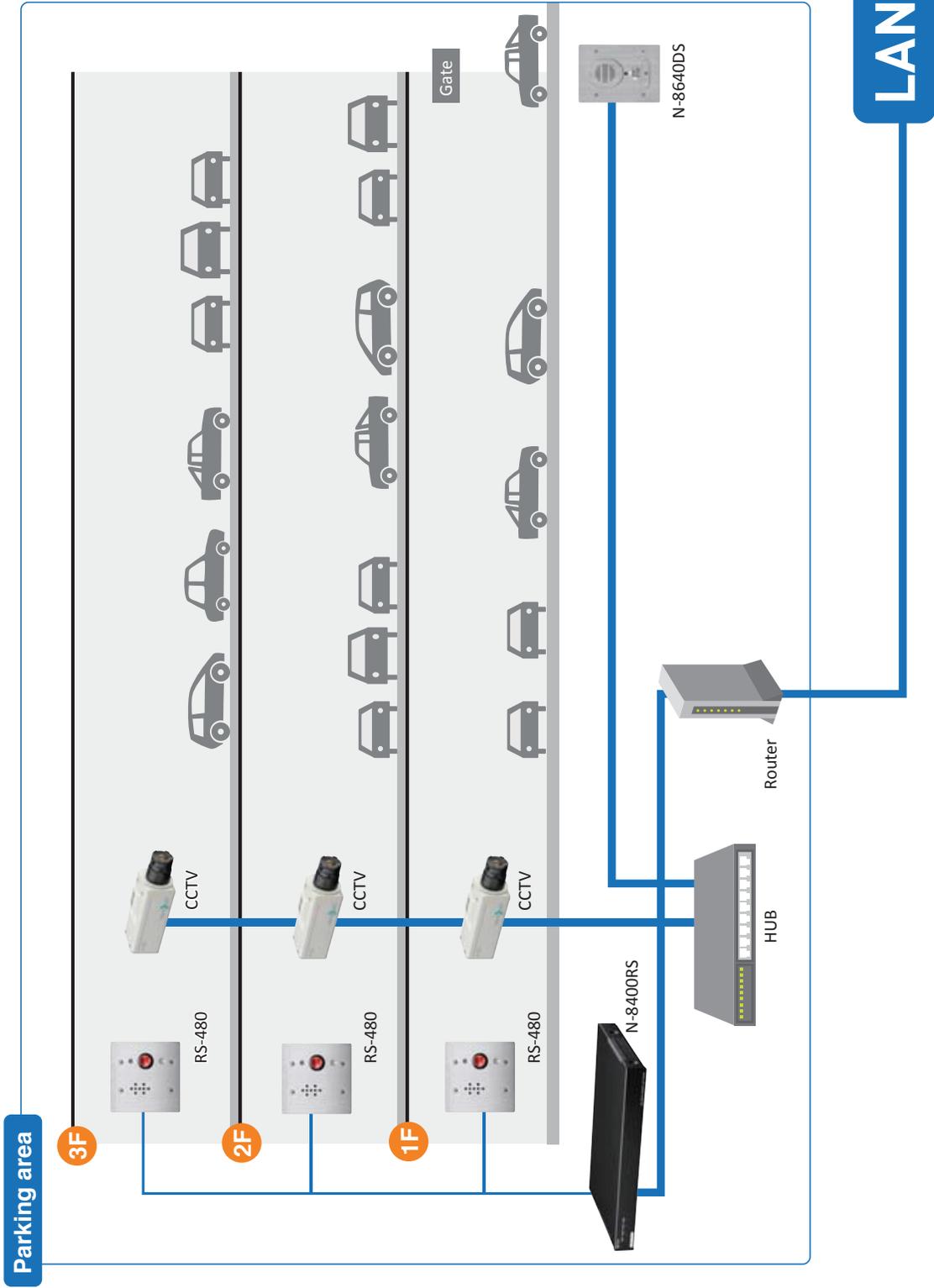


# Factory



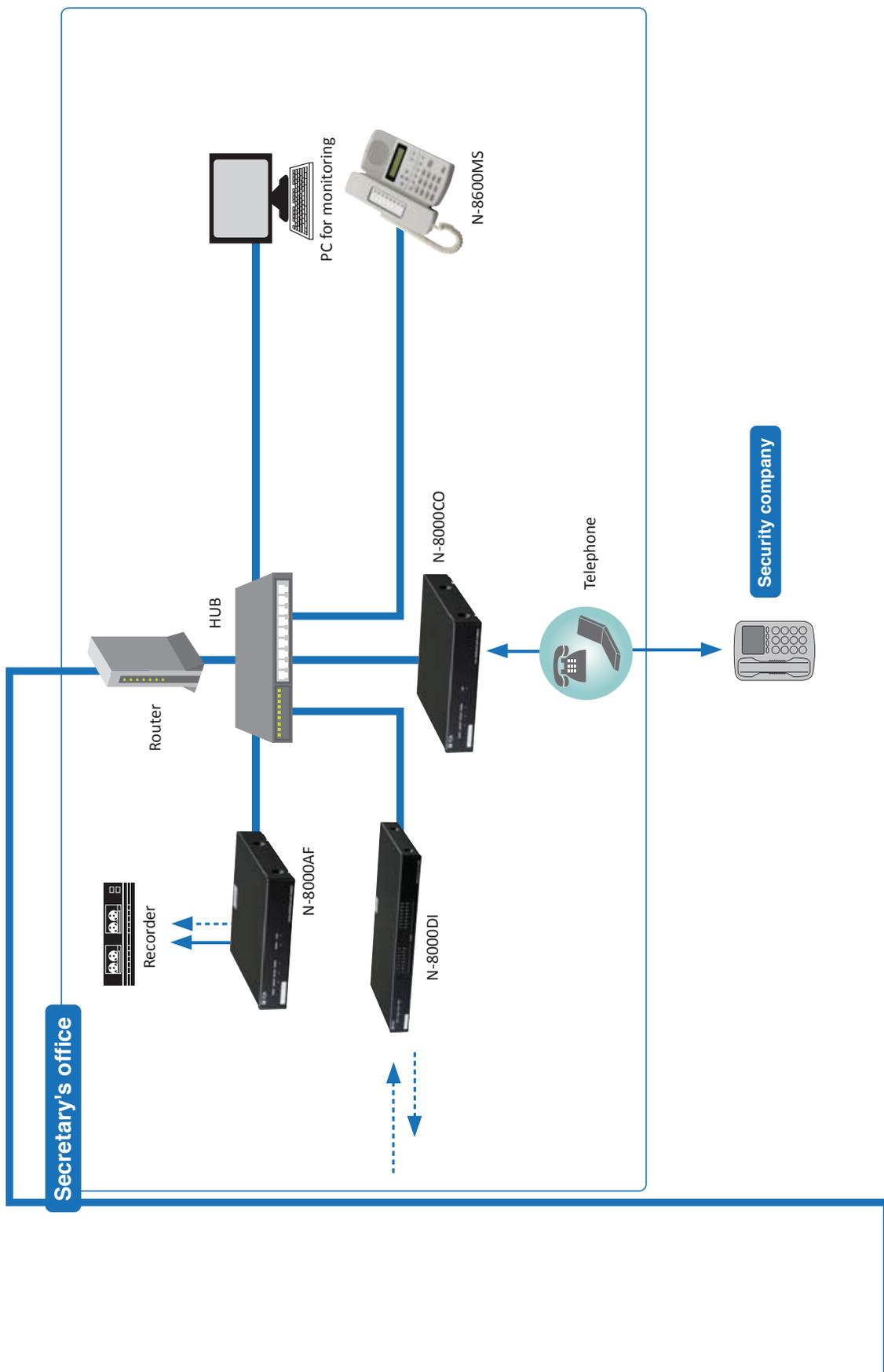
# Application Examples

## Parking garage



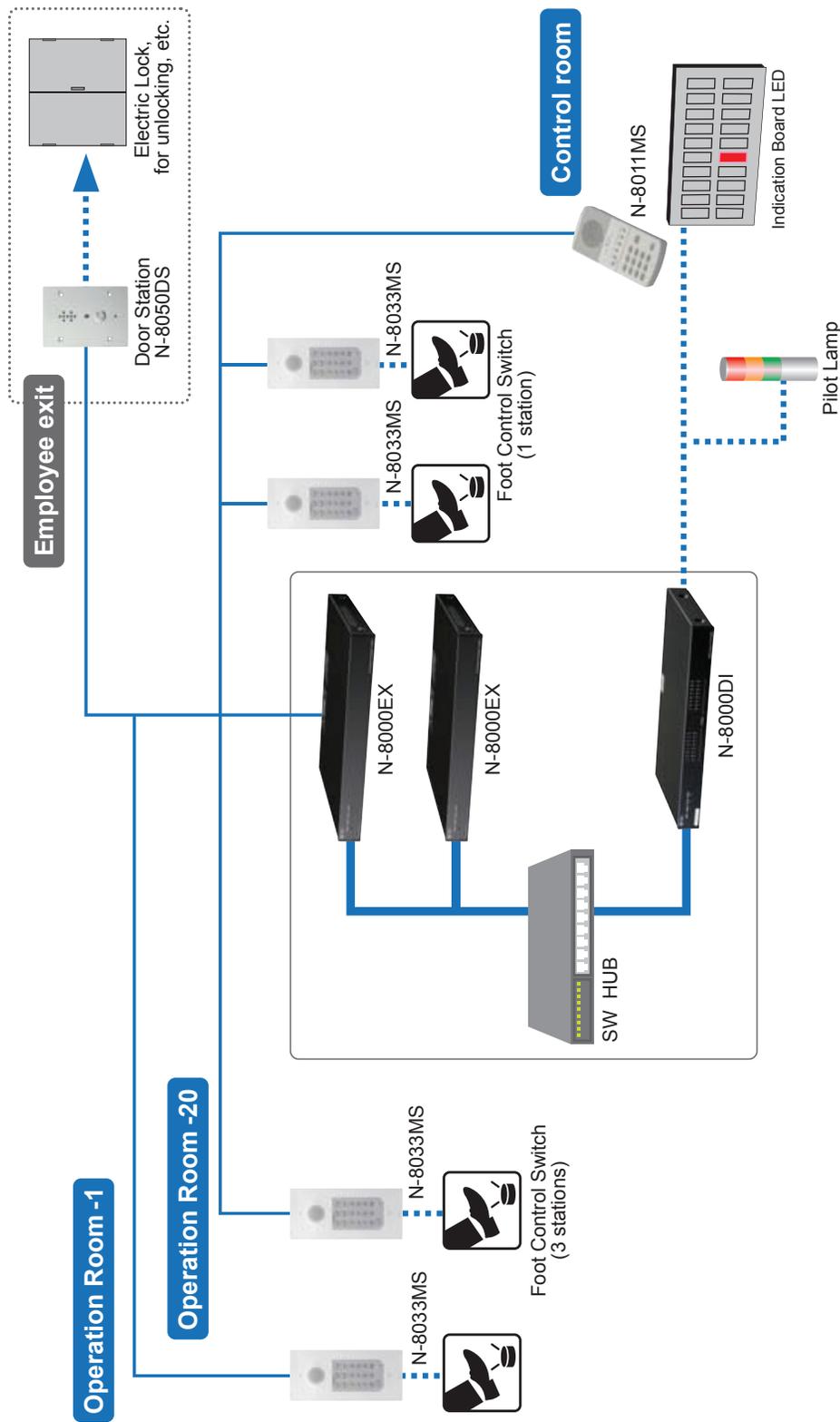


# Parking garage



# Application Examples

## Hospital





**We supply  
sound, not  
equipment.**



**Building security, door access, emergency paging,  
communications, via IP Intercom.**



# Application Examples

## Large-scale communication & Paging system at Airport

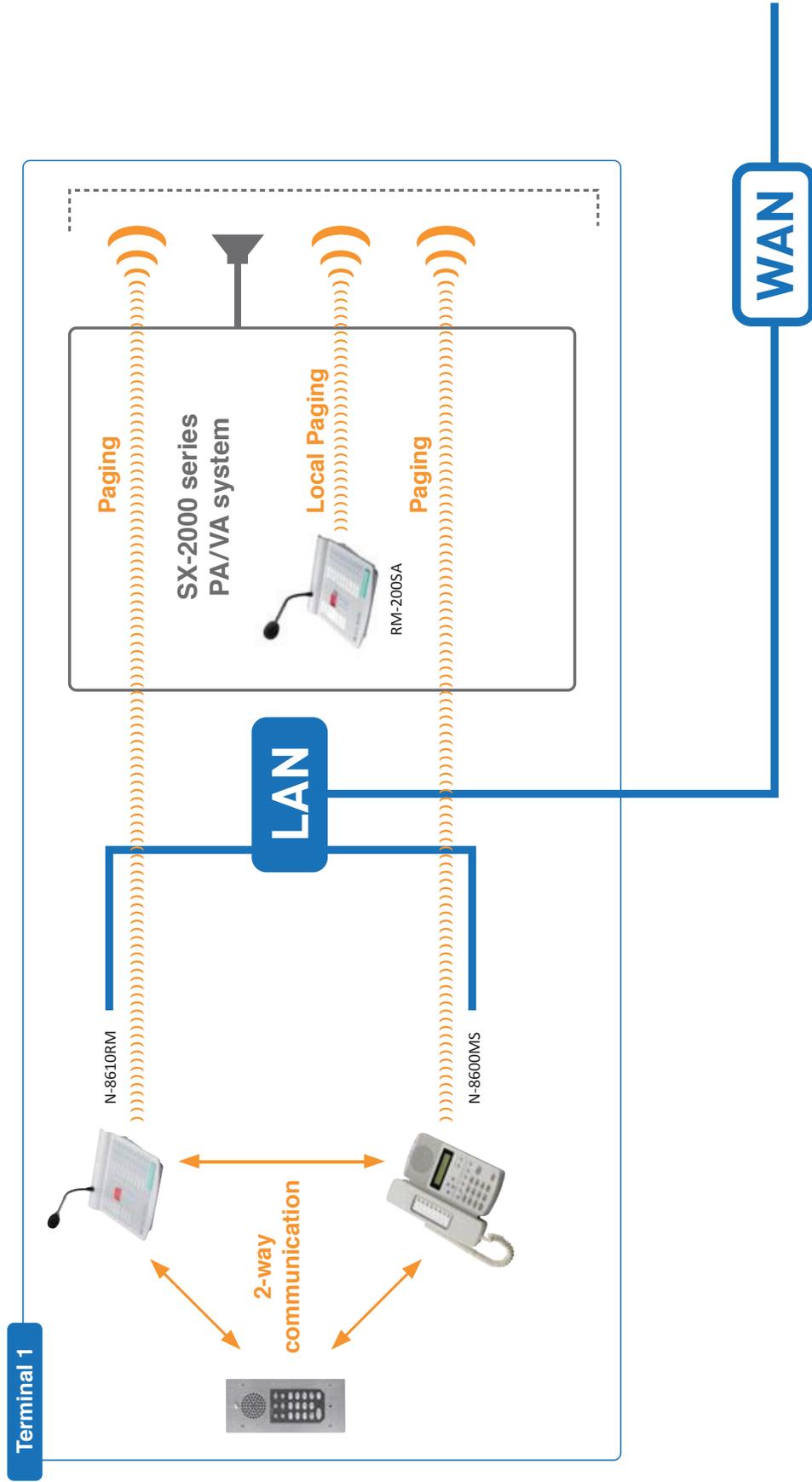


Integration of N-8000 with SX-2000 Audio Management System strengthens system capabilities.

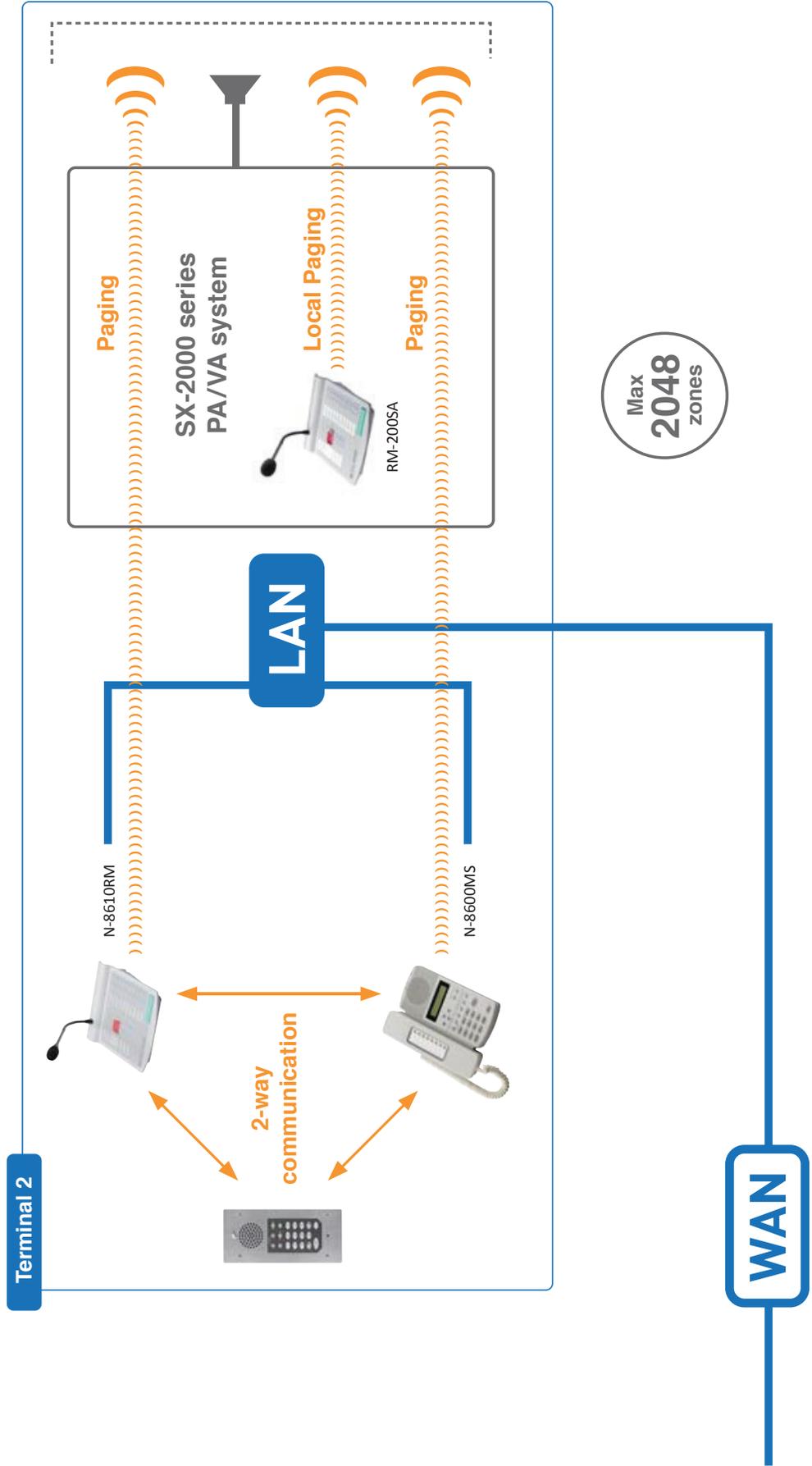
A large system with up to 2048 zones is realized on the IP Network.

From a remote location, IP Station\* can make a paging call to any selected zone(s).

\*N-8610RM and N-8600MS.

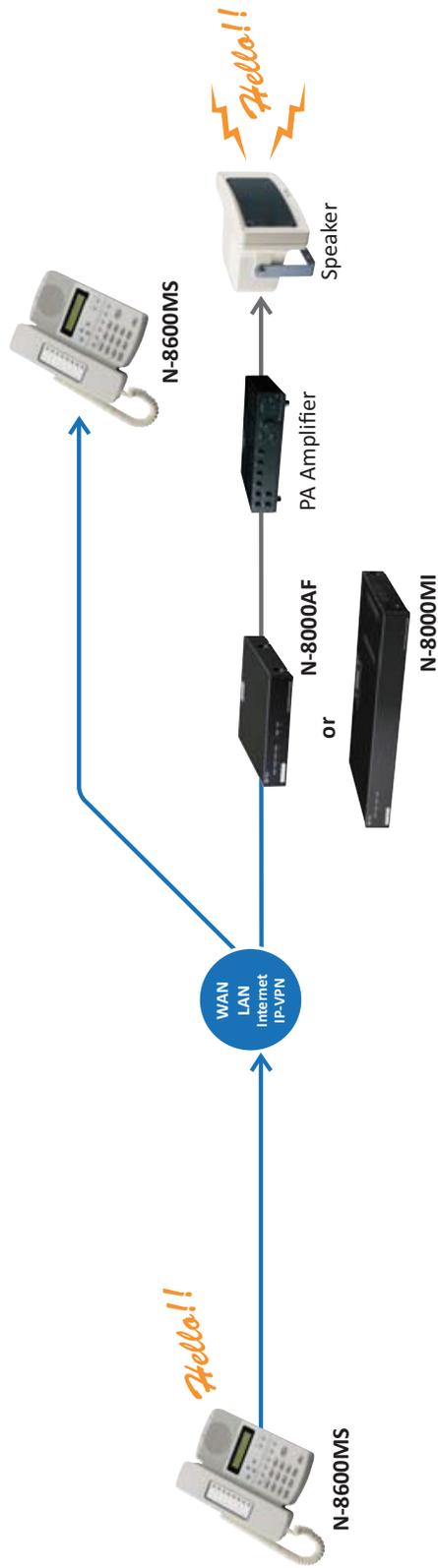


# Large-scale communication & Paging system at Airport

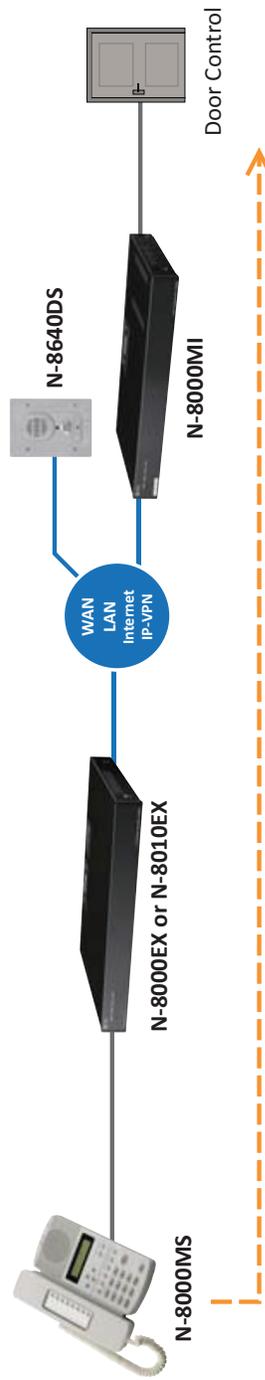


# Key Functions

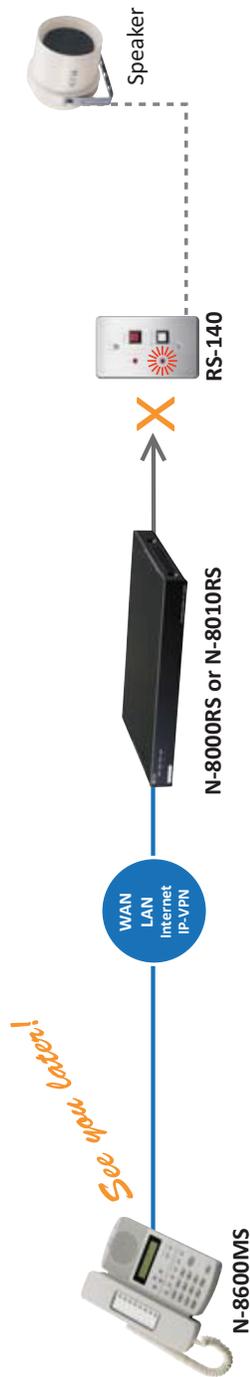
**Paging Function** Allows the master station as well as external input equipment to initiate paging by PA equipment or the speakers of individual stations. Operators can use the setup software to configure up to 192 paging zones to which paging calls can be made as desired.



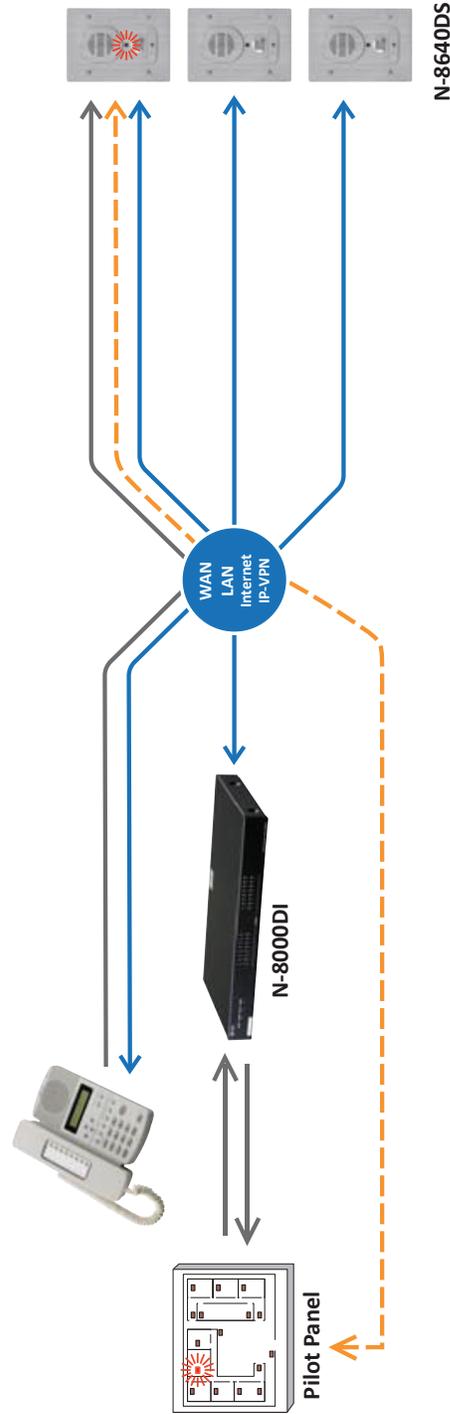
**Remote Control of External System** Makes it possible to execute door lock control easily through a contact output when the master station is engaged in ongoing conversation with the N-8640DS or N-8050DS Door Station.



**Privacy Mode** Activated by a control on the RS-140 Switch Panel, blocks paging calls to connected speakers and prevents scan monitoring except for emergency calls.

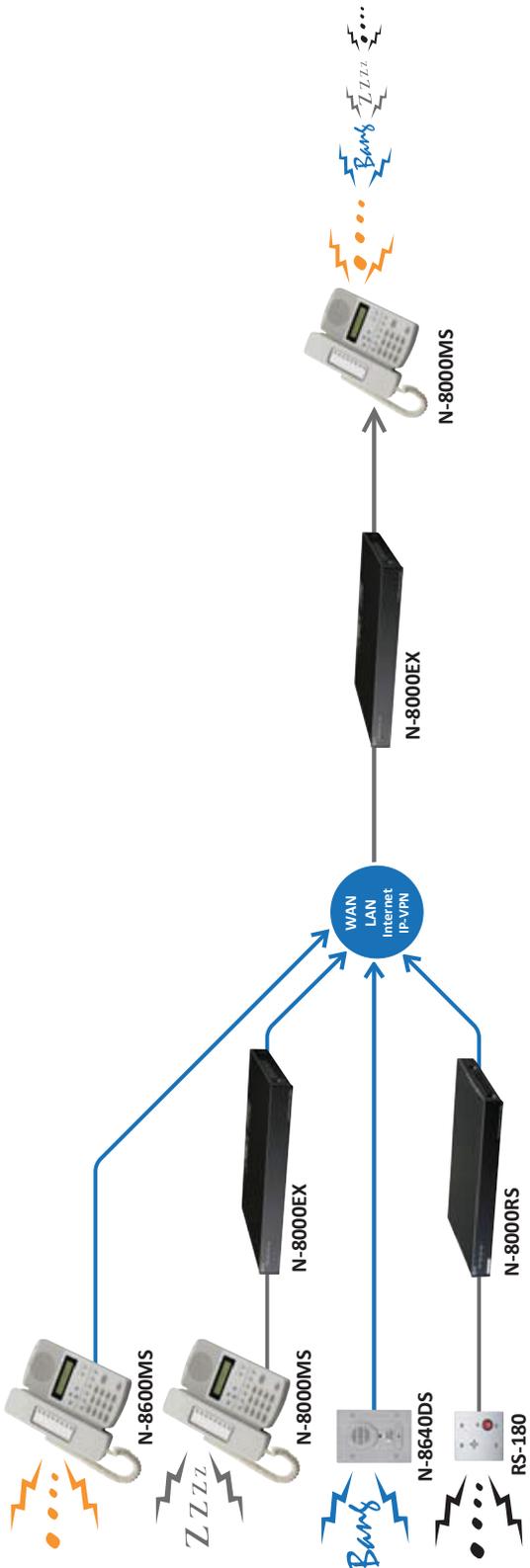


**Direct Select** Configures an operation panel equipped with indicator lamps and control buttons for the master station. Compatible with other stations, the panel assigns the various contact input and output channels to the master station and substations for purposes of identifying which substation is calling the programmed master station.

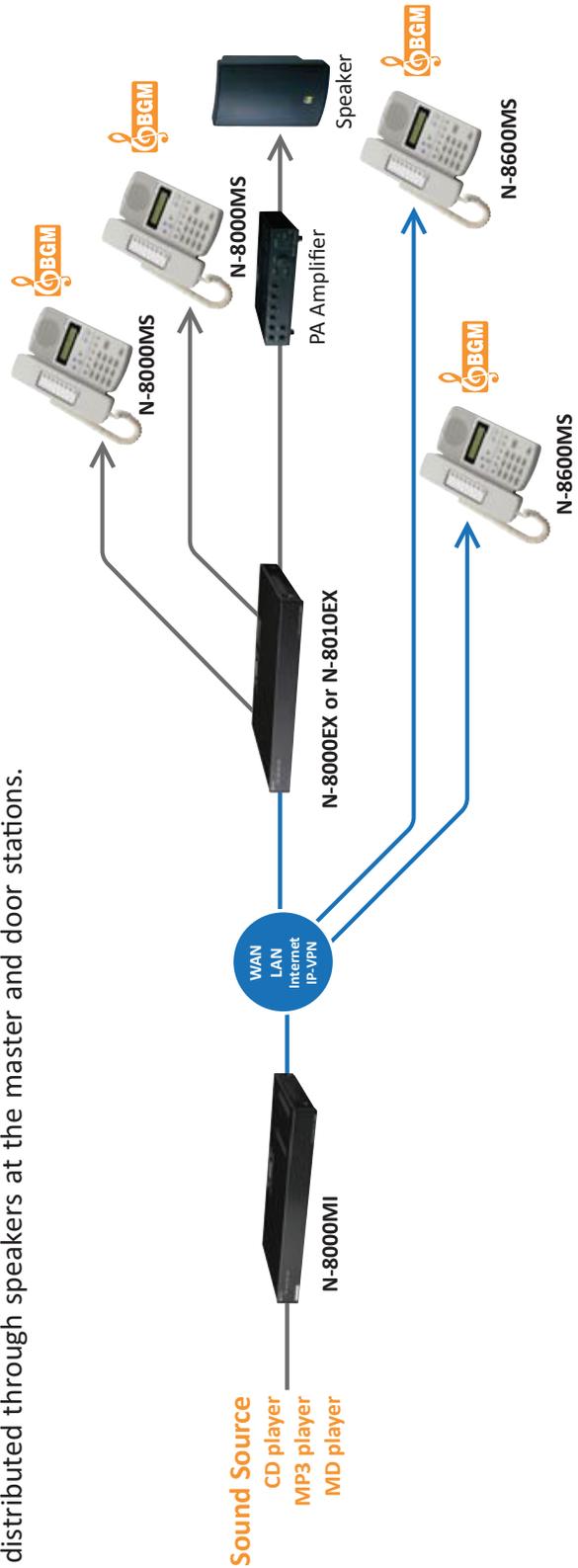


# Key Functions

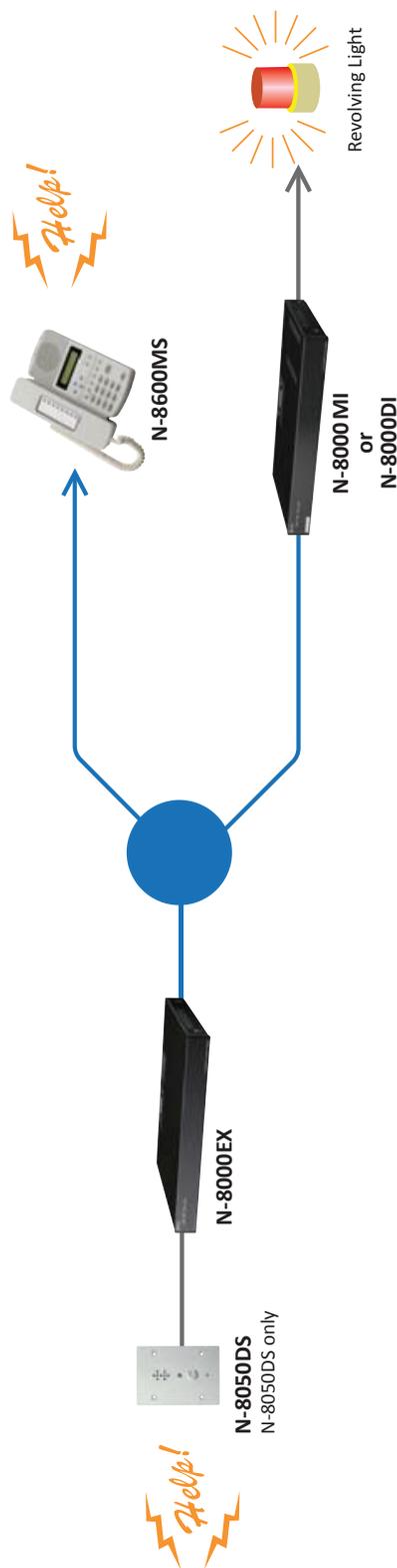
**Scan Monitor** Enables remote security monitoring by allowing the master station as well as analog telephones and external telephones to audio monitor two or more pre-programmed stations.



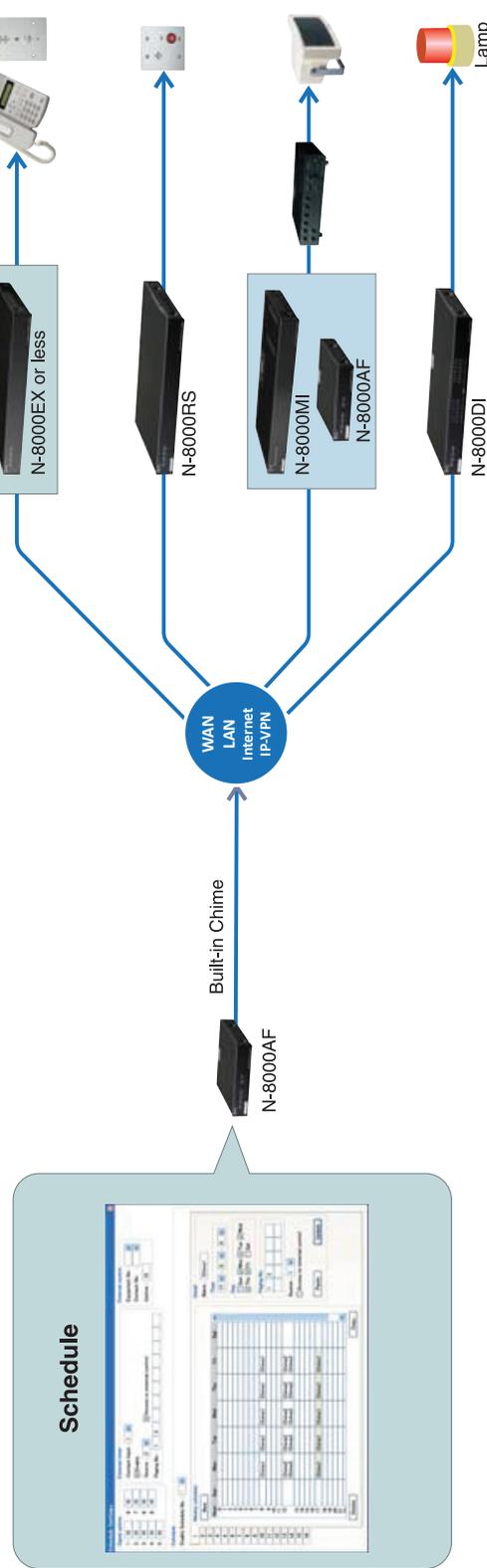
**BGM Broadcasting** Enables music from any of eight BGM sources connected to the N-8000MI to be distributed through speakers at the master and door stations.



**Audio Trigger** Sets off an alarm if audio input to a pre-programmed station's microphone fulfils pre-set conditions (detection time or signal level). Examples include calls to the designated master station or contact output generated by another interface unit.



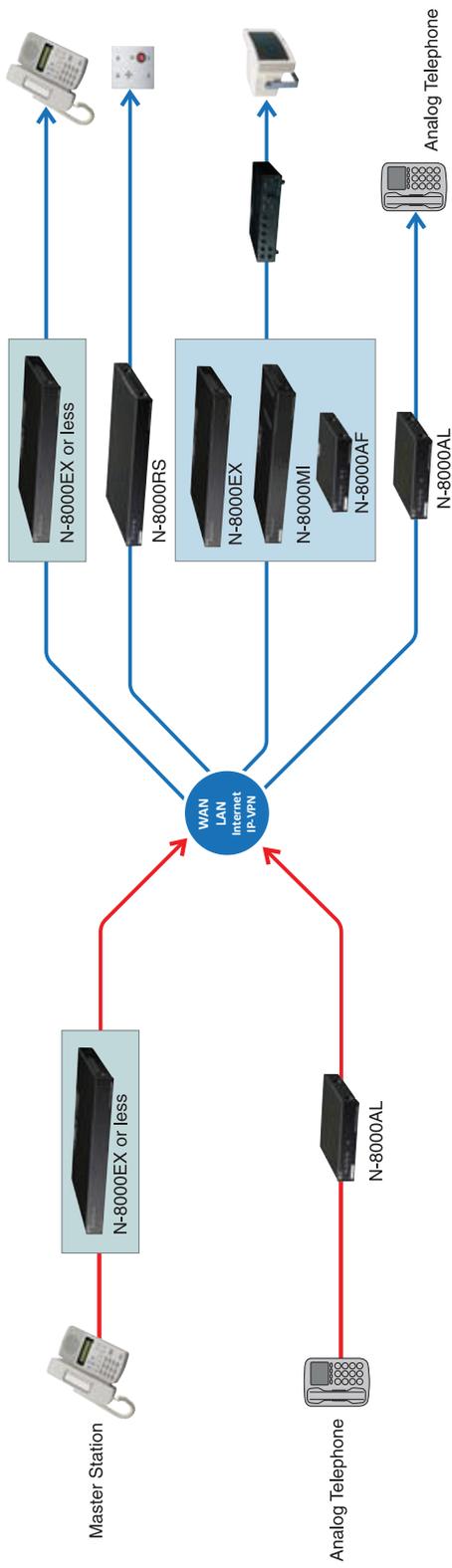
**Time Signal Function** Enables the built-in chime of the N-8000AF or an externally connected audio source to be broadcast to stations and PA equipment according to a preset schedule.



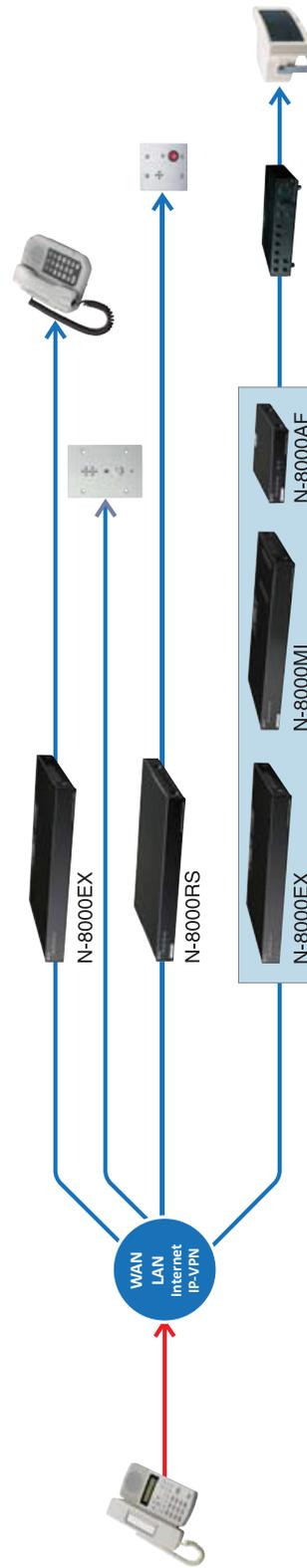
N-8000 Series IP Intercom System 19

# Key Functions

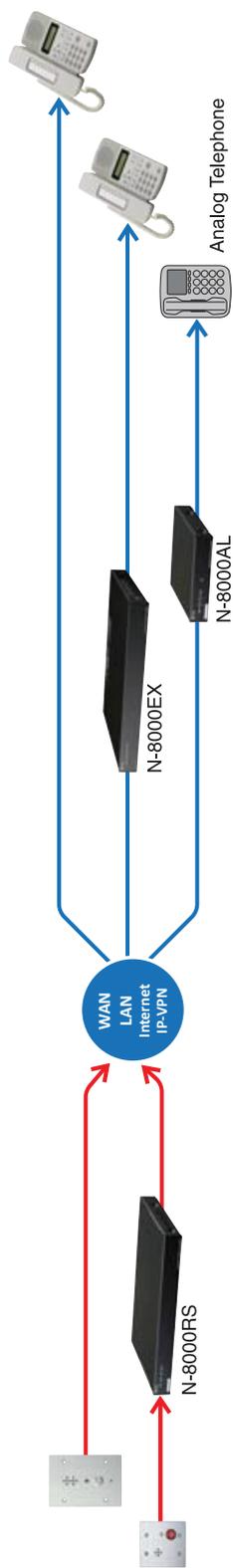
**Emergency All-Group Paging** A function that suspends ongoing conversations, paging and other operations to allow emergency all-group paging to all stations, PA equipment and lines.



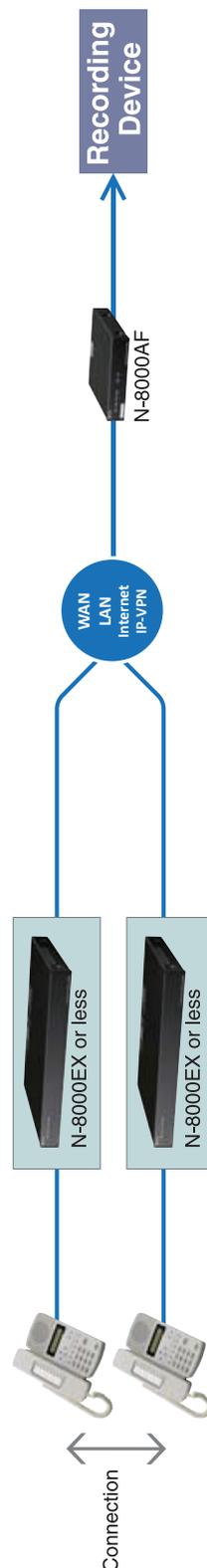
**Message Paging** Initiates emergency paging with prerecorded emergency messages on the IP Master Stations.



**Emergency Call** Pushing the call button twice quickly commands the door station and substation to make an emergency call to master stations and analog telephones.



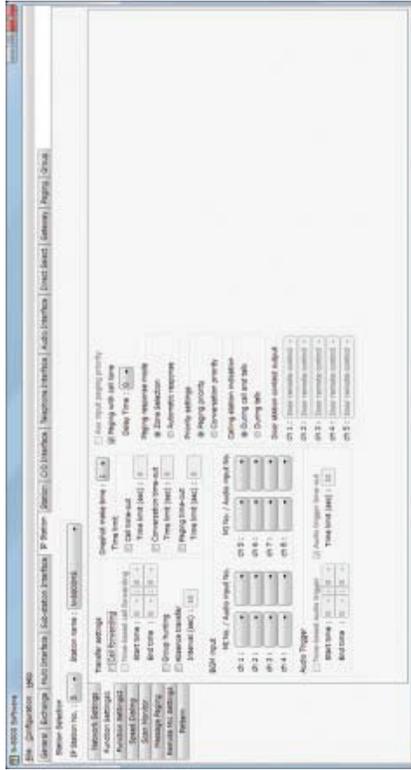
**Recording** Any conversation between master station/telephones and during a three-party conference, paging messages, and scan monitored audio can be recorded on recording equipment connected to the N-8000AF.



# System Software

## Setting Software

The network settings and the detection of the equipment connected to the local network can be set. The paging system settings, advanced settings of functions for each individual equipment, and settings for the whole system can also be adjusted.

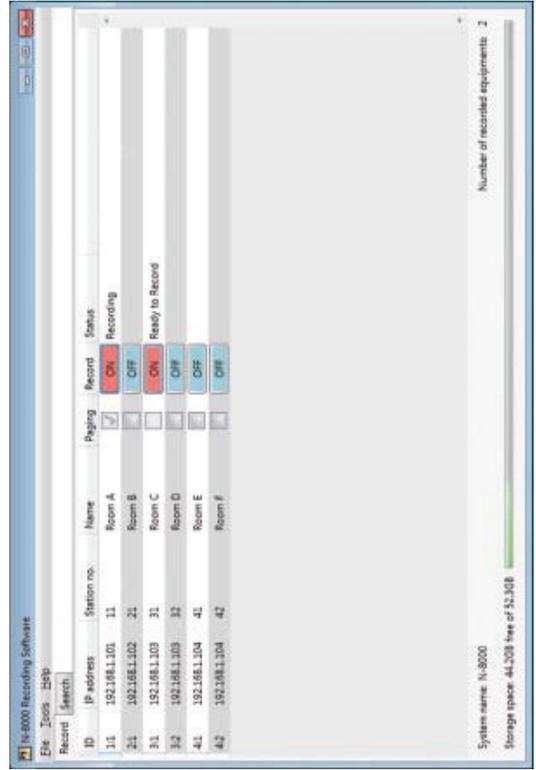


### [System Requirements]

OS: Windows® XP Professional SP2 or later/  
Vista Business/7 Professional  
CPU: Pentium® 4 2 GHz or faster  
Memory: 1 GB or more  
Required component: Microsoft® .NET Framework 3.5 SP1  
or later, and Microsoft® SQL Server 2005 Express Edition

## Recording Software

Telephone calls, paging, and 3-Party Conference on the N-8000 system and recording of the voice during the Scan Monitor can be managed as a way format. After selecting the recording subjected equipment, recording related settings can be adjusted. It is possible to easily search the recorded audio files and also to export the audio files to an external storage.



### [System Requirements]

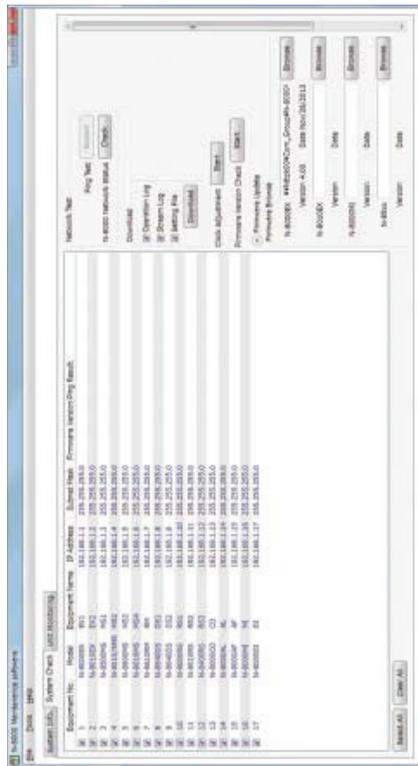
OS: Windows® 7 Professional SP1 (32/64bit)  
Screen resolution: Over 1024 x 768 pixels  
Required component: Microsoft® .NET Framework 4

### [Recommended Specifications]

CPU: Intel® Core® i5-2400 CPU @3.10GHz or faster  
Memory: 4 GB or more  
Free Hard Disk Space: 100GB or more  
(About 2.7 GB is used per sound source at 24-hour continuous recording)

## Maintenance Software

This software displays the equipment name, station number, etc. of individual equipment components within the system in the form of an at-a-glance list. System check function is used to confirm equipment firmware versions, update firmware, check connections between a PC and equipment components and between components, download various equipment log and setting files, and perform equipment clock settings. Although the above functions can be done on the browser, use of the N-8000 Maintenance Software permits such functions to be performed simultaneously for multiple components. Moreover, it displays the operation status of individual components in real time. Equipment operation logs can also be automatically saved to a designated file on the PC.



### [System Requirements]

OS: Windows® XP SP2 or later  
 Required component: Microsoft® .NET Framework 3.5 SP1 or later  
 Screen resolution: Over 800 x 600 pixels

### [Recommended Specifications]

OS: Windows® Vista Business/7 Professional  
 CPU: Pentium® 4, 2 GHz or faster  
 Memory: 2 GB or more  
 Screen resolution: Over 1024 x 768 pixels

\*Microsoft, Windows XP, Windows Vista, Windows 7 and .NET Framework are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

\*Intel, Pentium and Intel Core are either trademarks of Intel Corporation in the United States and/or other countries.

\*By use of different software, it is possible to configure for a large amount of telephone calls. For more information, please contact your nearest dealer.

## SDK

TOA Canada is now offering software developers a software development tool for the N-8000 Intercom in the form of an SDK. With the SDK, a software developer will be able to create and/or interface the N-8000 platform into existing or newly developed software. Also supplied with the SDK will be an SDK application example, SDK user manual and the N-8000 protocol.

Please contact TOA Canada to obtain the SDK and support files.  
[technicalsupport@toaCanada.com](mailto:technicalsupport@toaCanada.com) or 1-800-263-7639.

## Web Application to Control N-8000 AF Scheduler

**Coming Soon...** TOA Canada will soon release a web application to control the N-8000 AF Audio Interface Unit. This software gives access to the schedule and bell configuration portion of the existing N-8000 scheduling software. With this software multiple users can be granted access to make changes to the schedule.



# System Software

## SIP Gateway

The N-8000SG-Q SIP Gateway allows you to connect the N-8000 intercom system to a SIP phone system.

Communication can be established from the N-8000 to the SIP phone system and vice versa. This also allows up to 5 conversations at one time with the ability to initiate a page and access the door remote control features.

### Interconnection between N-8000 system and SIP system

- Call and transfer from N-8000 to SIP, and vice versa

### Digital domain connection

- Audio conversion from N-8000 to SIP and vice versa
- N-8000 uses G.722, fs=16kHz/8kHz, 16bit; SIP uses G.711 u-law

### 5 speech paths at the same time

- 5 conversations with SIP and N-8000 at the same time
- 5 paging from SIP telephone at the same time
- e.g., 2 conversations and 3 paging in total at the same time

### Additional functions from SIP system

- Paging function from SIP telephone to N-8000 system
- "Door remote control" from SIP telephone to N-8050DS, N-8640/50DS



### [System Requirements]

OS: Windows® 7 Professional (32/64bit)

License: "USB Dongle" required

# Canadian Intercom Installations

## Corporate & Commercial

- Four Seasons (Commercial Centre)
- Bearspaw Water Treatment Plant, Calgary, AB
- Rolls Royce Canada, Montréal, QC

## Correctional Facility

- Edmonton Remand, Edmonton, AB
- Val-d'Or Justice Center, Val-d'Or, QC

## Education

- Aupaluk School, Bay James Area, NT
- Bleuets School Board, QC
- CSDM (Montréal School Board), Montréal, QC
- De l'Or et des Bois School Board, Val-d'Or, QC
- Des Draveurs School Board, QC
- Joseph Francois Perrault School, Montréal, QC
- Lester B. Pearson School Board, Dorval, QC
- Marguerite Bourgeois School Board, Saint-Laurent, QC
- Mattawa School Board, Mattawa, ON
- Pointe de l'île School Board, Pointe-aux-Trembles, QC
- Private College, QC
- Psycho-pedagogical Center, Montréal, QC
- Royal Military College of Canada, Kingston, ON
- Seminaire de Sherbrooke, Sherbrooke, QC
- University of Alberta, Edmonton, AB
- Université de Sherbrooke (Longueuil), QC
- Université de Montréal (HEC), Montréal
- Western Quebec School Board, QC

## Halls & Theaters

- Place des Arts, Montréal, QC



## Hospitals & Government

- Baie Comeau Hospital (Surgery Block), Baie-Comeau, QC
- CRCHUM (Hospital Research Center), Montréal, QC
- Hopital Lasalle, Montréal, QC
- Jewish General Hospital, QC
- Joliette Residence, QC
- Newmarket Courthouse, Newmarket, ON
- Royal Alexander Hospital, Edmonton, AB
- Ste-Justine Hospital, Montréal, QC
- Toronto City Hall & Metro Hall, Toronto, ON
- Val-d'Or Hospital, Val-d'Or, QC

## Sporting Complexes

- Montréal Olympic Stadium, Montréal, QC

## Transportation

- Deer Lake Regional Airport, Deer Lake, NL
- Greater Fredericton Airport Fredericton, NB
- Halifax Stanfield International Airport, Halifax, NS
- Hamilton Port Authority, Hamilton, ON
- Pierre Elliott Trudeau Airport (ADM), Montréal, QC
- Moncton Airport, Moncton, NB
- Northumberland Ferries, Murray River, PE



**Clock**



## DIGITAL CLOCKS

Leverage the power of your existing wireless or Ethernet network to enjoy perfectly synchronized time throughout your facility. OneVue wireless Digital Clocks connect effortlessly to your network right out of the box. Simply preconfigure the clocks online through our intuitive OneVue interface. When the clocks are delivered, just plug them in and hang them on the wall to keep your organization running on time, even through power outages and Daylight Saving Time shifts.

### ONEVUE SURFACE-MOUNT MODELS WITH 2.5" DIGITS

4-Digit	6-Digit	Description
SNS7B200Q	SNS7B202Q	4" Slope Bracket, 9' (2.74m) cord with plug
SNS7B212Q	SNS7B419Q	18" Slope Bracket, 9' (2.74m) cord with plug
SNS5X200Q	SNS5X202Q	4" Slope Bracket, PoE
SNS5X212Q	SNS5X419Q	18" Slope Bracket, PoE

### ONEVUE SURFACE-MOUNT MODELS WITH 4" DIGITS

4-Digit	6-Digit	Description
SNS7B210Q	SNS7B203Q	4" Slope Bracket, 9' (2.74m) cord with plug
SNS5X210Q	SNS5X203Q	4" Slope Bracket, PoE

### ONEVUE FLUSH-MOUNT MODELS WITH 2.5" DIGITS

6-Digit	Description
SNS7Y202FQ-1	18" (45.72cm) Cord with pigtail
SNS5X202FQ	PoE

- \* 4" 6-digit Clock can be ceiling mount only.
- For Green LED digits, add a "G" after the item number.  
Example: SNS7B200GQ OR SNS7Y200GQ-1

## DUAL CLOCK BRACKET KIT

Any two surface-mount digital clocks can be mounted back-to-back to provide greater visibility in hallways and larger areas. Select the correct Dual Clock Bracket Kit for your application below.

### DUAL CLOCK BRACKET KIT

Mount	2", 4-Digit	2", 6-Digit	4", 4-Digit	4", 6-Digit
Ceiling	24CBRK	26CBRK	4XBRK	4XBRK
Wall	24WBRK	26WBRK	4XBRK	NA

## DESIGNED FOR VISIBILITY AND RELIABILITY

OneVue Digital Clocks are clearly visible up to 150' away. The OneVue Web-based interface provides additional control of clock functions. Users can also schedule clock status reports to learn if synchronization is off or maintenance is required.

## PRODUCT FEATURES:

- Highly visible 7-segment LED digits
- Three display dimmer options: 75%, 50% and 25%
- Power outage memory backup for up to 8 hours
- Choose Red or Green LED digits
- Available in AC or Power over Ethernet (PoE)



Surface Mount 4-Digit



Surface Mount 6-Digit



Flush Mount 6-Digit



Surface Mount with Wall Mount Dual Clock Bracket Kit

## DIGITAL CLOCK SPECIFICATIONS:

- 12- or 24-hour time display
- PM indicator light
- Automatically adjust for Daylight Saving Time
- Alternating time and date display option
- LED dimmer option (75%, 50%, 25%)
- Power outage memory backup for up to eight hours
- Operating temperature range: 32°- 95°F (0°- 35°C)
- Storage temperature range: -20°-185°F (-29°- 85°C)
- Clock configuration to access your network is accomplished online prior to delivery for plug-and-play convenience.

### AC Power Supply

- 120 VAC/ 50-60 cycle, with either 9' (2.74m) cord with plug

### Network Connectivity

- 802.11 (b/g) Wireless or Ethernet communication
- Security Encryption: WEP, WPA, WPA2
- Authentication: LEAP, EAP-FAST, PEAP

### PoE Models

- PoE IEEE 802.3af compliant
- Certification: FCC/IC/CE marked
- Actual power consumption: 12 watts (class 3)

### SURFACE MOUNT

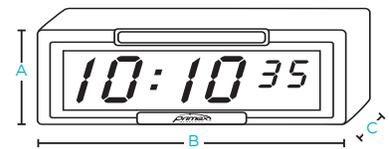
Digit Height	No. of Digits	Weight	Max. Current Draw	Height	Width	Depth
				A	B	C
2.5" (6.35cm)	4	2.26 lbs. (1 kg)	230 mA	5" (12.7cm)	10.75" (27.30cm)	2.5" (6.35cm)
2.5" (6.35cm)	6	2.72 lbs. (1.23kg)	260 mA	5" (12.7cm)	13.75" (34.93cm)	2.5" (6.35cm)
4" (10.16cm)	4	4.74 lbs. (2.15 kg)	230 mA	8" (20.32cm)	18" (45.72cm)	3" (7.62cm)
4" (10.16cm)	6	7.31 lbs. (3.3 kg)	260 mA	8" (20.32cm)	23.25" (59.05cm)	3" (7.62cm)



### FLUSH MOUNT

Digit Height	No. of Digits	Weight	Max. Current Draw	Height	Width	Depth	Overall Depth through Wall
				A	B	C	D
2.5" (6.35cm)	6	2.88 lbs. (1.31 kg)	260 mA	6.3" (16cm)	17" (43.18cm)	.2" (.5cm)	2.6" (6.6cm)

Surface-Mount Digital Clock



Flush-Mount Digital Clock

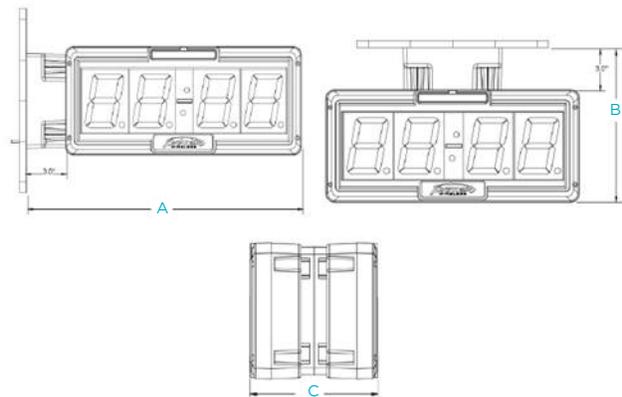


### DUAL-MOUNT DIMENSIONS

Clock Type	Width from Wall	Height from Ceiling	Depth of Two Clocks
	A	B	C
Dual 2.5" 4-digit	13.75" (34.93cm)	8.0" (20.32cm)	6.6" (16.76cm)
Dual 2.5" 6-digit	16.8" (42.67cm)	8.0" (20.32cm)	6.6" (16.76cm)
Dual 4" 4-digit	21.0" (53.34cm)	11.0" (27.94cm)	7.5" (19.05cm)
Dual 4" 6-digit	N/A*	11.0" (27.94cm)	7.5" (19.05cm)

\* 4" 6-digit Clock ceiling only.

\* Dual mount clocks are shipped disassembled to simplify installation.



Analog Clocks

# XR SERIES

## XR Traditional Series Analog Clocks

Utilizing the power of GPS and Network Time Protocol (NTP), Primex Wireless Analog Clocks perfectly synchronize to improve workflow, accountability and productivity. Our proprietary 72MHz transmission frequency delivers the perfect combination of distance and signal strength to easily penetrate common building materials, and transmit across longer distances with less potential for signal interference.

### Accurate Time Throughout the Facility

Our Traditional Series Clocks feature easy-to-read dials and durable thermoplastic frames and lenses, making them ideal for many applications. Available in a variety of colors, sizes and dial options.

#### TRADITIONAL SERIES BATTERY MODELS

Part No.	Description
14280	9" (22.86cm) Black
14155	12.5" (31.75cm) Black
14159	12.5" (31.75cm) White
14163	16" (40.64cm) Black
14312-M	13.5" (34.29cm) Square, Black
14313-M	13.5" (34.29cm) Square, Silver



9" Traditional Series



12.5" or 16" Traditional Series

#### TRADITIONAL SERIES ELECTRIC MODELS

Part No.	Description
14323	12.5" (31.75cm) 24VAC Black
14155E	12.5" (31.75cm) 120VAC Black
14159E	12.5" (31.75cm) 120VAC White
14338	16" (40.64cm) 24VAC Black
14339	16" (40.64cm) 120VAC Black
14312E-M	13.5" (34.29cm) 120VAC, Square, Black
14313E-M	13.5" (34.29cm) 120VAC, Square, Silver



13.5" Square Traditional Series

#### TRADITIONAL SERIES BATTERY MODELS - REMOTE ANTENNA

Part No.	Description
14244	12.5" (31.75cm) Black, Remote Antenna Clock
14465	12.5" (31.75cm) White, Remote Antenna Clock

### Dual Clock Kit

Create an easy-to-read dual-sided clock for hallways or other large areas with our Dual Clock Kit. The kit includes a bracket, mounting plate and hardware to easily assemble and install two 12.5" (31.8cm) Traditional Clocks back to back.

#### DUAL CLOCK KIT

Part No.	Description
14289	Black - Fits 12.5" (31.8cm) Traditional Series Clock
14289W	White - Fits 12.5" (31.75cm) Traditional Series Clock



12.5" Dual-Sided Traditional Series

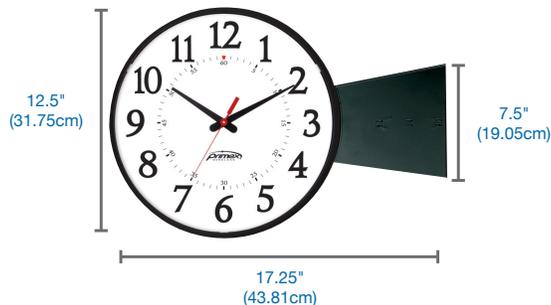


Analog Clocks

# XR SERIES

### Traditional Series Clock Specifications:

- Durable thermoplastic frames and lenses
- Automatically adjust for Daylight Saving Time
- Operating range: 32° - 158°F (0° - 70°C)
- Clock Lock available on most models features two uniquely shaped hangers that require a sequence of movements to install and remove the clock.
- Customized clock faces are available to display your organization's name or logo. Please call for more information.



### Single-Sided Model

- Three sizes available: 9" (22.86cm); 12.5" (31.75cm) or 16" (40.64cm) diameter
- Single clock depth: 2.5" (6.4cm)

### Dual-Sided Model

- 12.5" (31.75cm) diameter
- Mount to wall or ceiling
- Ideal for hallway applications to view from many angles
- Easy to assemble

### Square Model

- 13.5" (34.29cm) Square
- 2.25" (5.7cm) depth

### Battery Models

- 9" (22.86cm) Clocks require (2) C-cell alkaline batteries (not included)
- 12.5" (31.75cm) Clocks require (2) D-cell alkaline batteries (not included)
- 16" (40.64cm) Clocks require (2) D-cell alkaline batteries (not included)
- 13.5" (34.29cm) Square Clocks require (2) D-cell alkaline batteries (not included)

### Electric (AC)

Power Supply 100-240 VAC, UL Listed, 18" (45.72cm) cord with plug

- Single-Sided: 67mA @ 120 VAC
- Dual-Sided: 134mA @ 120 VAC

### Battery Numbers

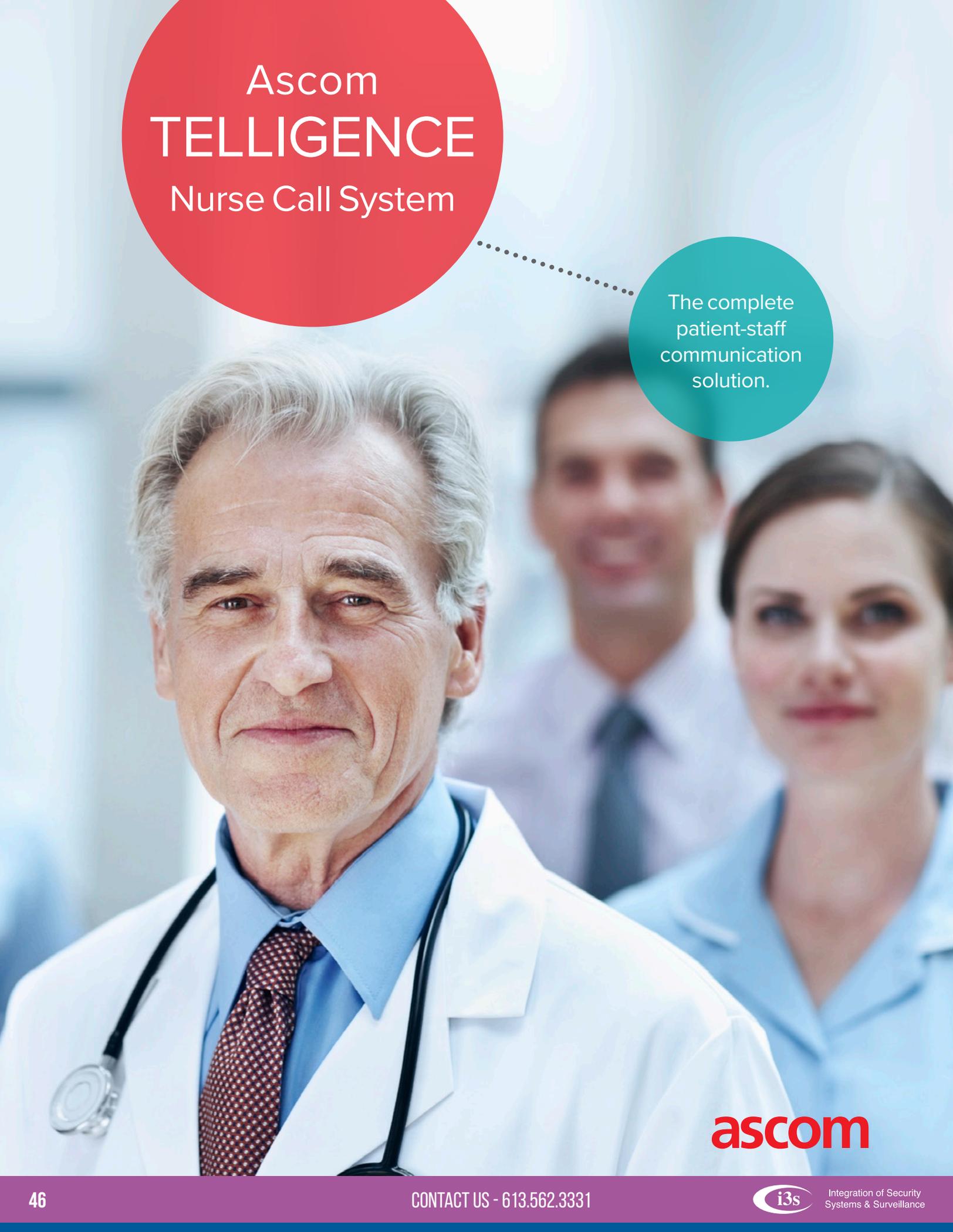
- 14890 (2) D-cell alkaline batteries
- 14889 (2) C-cell alkaline batteries



Remote Antenna Clock



# **Nurse Call System**



Ascom  
**TELLIGENCE**  
Nurse Call System

The complete  
patient-staff  
communication  
solution.

**ascom**

# Ascom Telligence Nurse Call System

*Nurse call and clinical workflow are increasingly interconnected. The Telligence Nurse Call System from Ascom is designed to streamline communication between patient and clinician, improve quality of care, enhance patient satisfaction and boost caregiver productivity.*

---

## **Seamless Communication For More Attentive Care**

Telligence, an enterprise communication system for clinical workflow and management, includes a network of staff and patient room devices that scale and configure to meet each department's specific needs. It offers complete flexibility with programmable touch points and color-coded indicators. Telligence can:

- Scale from basic nurse call to a sophisticated communication system on a single integrated platform.
- Improve clinical staff efficiency by integrating nurse call with mobile phones and pagers, helping to deliver information to mobile caregivers when and where it is needed!
- Support increased patient satisfaction scores (HCAHPS) with clear communication, automatically routing events, alerts and escalations directly to the appropriate caregivers, thus adding efficiencies to care delivery?
- Provide visibility to call volume and response times to support evidence-based adjustments to care teams, assignments and staffing levels.
- Meet nurse call system regulatory and compliance standards including UL 1069 and AS 3811.

The Telligence Nurse Call Communication System staff devices are designed for simple, clear, reliable communication. They are easy to use and flexible to suit specific needs. The devices provide:

- Streamlined patient-staff communication for any care setting.
- Direct connection between patients and caregivers, enhancing patient satisfaction.
- Call priority settings help ensure the most urgent calls are clearly indicated to help staff respond accordingly.
- Staff notification through distinctive audible tones.
- One-touch call answer.
- Color LCD touchscreen.
- Hands-free, crystal-clear audio.



## Staff Console & Annunciator

The Telligence Staff Console is a primary point of contact for staff-to-patient and staff-to-staff communications. Designed for desktop use, the device includes a handset and cradle for privacy or supports hands-free operation. The Annunciator offers all the performance-rich features of the Staff Console in a convenient wall-mounted configuration, ideal for hallways and staff rooms. The device graphically displays incoming calls from stations and connected healthcare equipment by priority and time stamp to ensure staff respond to the most urgent events first.

- Set detailed service tasks to streamline patient care and staff workflow.
- Adjustable volume control and noise cancellation to improve and simplify communication between staff and patients.
- Intuitive touch screen user interface simplifies operation.
- Ability to upgrade alerts to a higher priority ensures the right response for patient care.



Simple,  
clear, reliable  
communications  
that bring you closer  
to the people that  
really matter.

## Staff Station

The wall-mounted Staff Station enhances staff-to-staff and staff-to-patient communications. It supports automated workflows from the patient bedside and aids in requesting services and providing information on room status. Workflow buttons can be customized for each care setting or application.

*Nurse Round Timers* allow staff to select a configurable button to set rounding timers or manually enter a recurring rounding clock time. Timers may include reminders to check skin, bathroom needs, nutrition, blood sugar, fluids or other custom events.

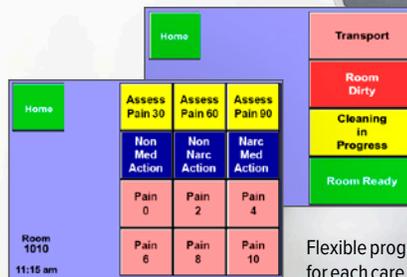
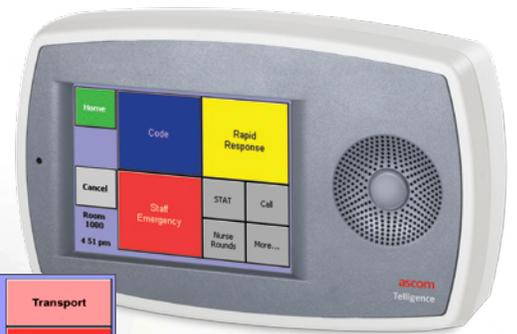
*Bed Management* facilitates patient discharge activities such as environmental services for turning over room, transport for moving the patient, and food services to stop delivery and reduce waste. Turning rooms more efficiently directly affects revenue and reduces patient and family frustration.

*Patient Flow* can be accelerated by creating workflows for PT, RT, transport, radiology, pharmacy, etc., to reduce wait times and improve productivity.

*Room Status* is continuously updated, eliminating the need for signs and notes to be attached to room doors.

*Audio Communications* allow calls to be placed to the front desk, the pharmacy to check on prescriptions, or to the lab to check on results, saving caregivers time by not traveling to get the information.

*Room Cancel* eliminates the need for staff to go to the patient station which is often located on the wall behind the bed and other medical devices saving time and steps.



Flexible options for workflow buttons.

Flexible programming for each care area.



Streamlining workflows helps nurses focus more on patients.

## In-Room Devices Built For The Real World

Telligence patient room devices are robust and ergonomically designed for use in the challenging clinical environment. With a wide variety of peripherals to meet departmental needs, the room devices offer:

- Intuitive operation for patient and staff.
- Programmable buttons for flexible labeling and functionality.
- Standardized patient or staff devices for lower maintenance costs.
- Sealed membrane covers for easy cleaning.

### Smart Patient & Staff Duty Stations

Smart Patient and Staff Duty Stations provide a primary point of two-way patient-staff communication. With a built-in speaker and microphone, they provide a full-duplex channel of audio communications. The two-way volume control operated from the Staff Console lets users tailor audio to the patient.

- Easily customized button labels for different functions.
- Audible tones and LEDs that let staff and patients hear and see when a button has been pushed.
- Integrated call cord, pillow speakers, bed and auxiliary equipment connectors: one device with many functions.
- NiteLite for easy visibility under low-light conditions.
- Clean mode available to eliminate accidental calls during cleaning.

### Peripheral Stations

Push/Pull Stations and Push-button Stations come with field configurable buttons for placing patient calls, requesting staff assistance, indicating staff presence or signaling a code blue situation.

- Site-configurable buttons.
- NiteLite on-board lighting.

### Pillow Speakers & Call Cords

Patients use pillow speakers and call cords to initiate calls from patient stations. Simple push-button operation places a call on the system. Air-operated and standard call cords are available in a variety of styles.

- Modern, comfortable, ergonomic design that fits naturally in the hand with large buttons for ease of use.
- Smooth shape, sealed designs and minimal crevices for easy, comprehensive cleaning and less risk of cross-contamination.
- DuraPin pillow speaker connector for maximum durability.
- Auxiliary inputs available to interface with other compatible devices.



## Power Switch & Gateway

The Telligence PowerSwitch is an Ethernet communication interface and power supply for all IP devices residing on the Telligence patient-staff communications network. It interconnects with system components via standard network cabling and connectors (RJ 45). The Telligence Station Gateway provides the intelligence for dome lights, peripheral devices and Smart Patient and Duty stations.

- Enables a flexible, scalable system.
- Minimal central equipment to reduce clutter and save valuable space in local equipment closets.
- Voice over IP technology for advanced digital intercom communication.
- Simplified CAT5e/6 cable plan for ease of installation and maintenance.
- Standard 1RMU in 19 inch rack for easy mounting and space planning.

## Dome Lights

Infinity Series LED dome lights provide bright visual indicators to help speed response time and enhance caregiver communication. They are typically installed in corridors and outside patient rooms to provide visual cues to the origin and type of call.

- Configurable color indication to match facility guidelines and to ensure the most critical calls are clearly identified.
- Events are easily recognized by staff by the high intensity LEDs and optional audio tones.
- Designed to fit healthcare decor while effectively displaying in-room events.

## Simplicity For IT & Biomed

IT and biomedical staff play an increasing role in nurse call systems support and configuration. Telligence helps minimize maintenance issues with hot-swap capable staff consoles and annunciators, and simple connectors for easy replacement in the rare cases a device may need replacement. Telligence PC requirements are flexible enough to fit the hospitals virtualization strategy and in some configurations can operate without a PC at all. The Ascom Unite software suite (sold separately) can turn most hospital workstations into a nurse call reporting center with applications for event display, messaging, staff assignments, and more.



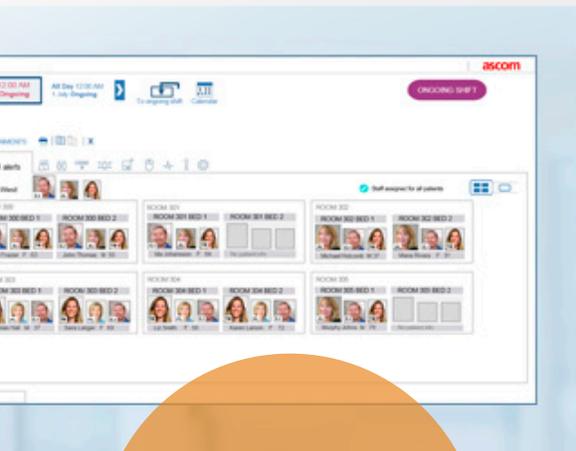
## Unite Software Keeps Patient & Caregiver Connected

Unite is Ascom's software solution that seamlessly links mission-critical systems with mobile communications. It delivers intelligent integration, advanced messaging, and system management in one unique, powerful package. Unite integrates with multiple systems including nurse call, patient monitoring, EHR systems, RTLS and other healthcare systems to provide connected solutions.

Ascom Unite provides two-way, intelligent integration to Telligence nurse call, as well as other healthcare information systems, to increase staff mobility while optimizing patient care and streamlining workflow. Unite delivers alerts, messaging and voice integration enabling a quicker response to patient requests via a wireless device.

When integrated with the Telligence nurse call system, Unite notifies caregivers within seconds when a patient presses their call button, pulls a bath cord, or when a clinical coworker initiates a Code Blue or Staff Assist call from the patient's room. An alert message can be sent to an individual or group, such as a code or rapid response team, containing information required to quickly assess the event and respond to it. Unite also enables caregivers to easily speak directly to a patient, with options to initiate a specific service task request or upgrade the nurse call event to a higher priority, directly from their mobile phone.

- Integrated platform connecting caregivers and patients via a wireless device.
- Communicates alert message prioritization based on predefined parameters.
- Streamlines workflow and task prioritization for handling patient requests.
- Offers activity logging and reporting to support audit capability and management reporting.
- Helps create a "Connected" environment for caregivers – keeping staff better informed.



Enhancing communications to bring nurses closer to their patients.



## Unite Applications

*Unite Assign* supports a single interface to staff assignment across multiple healthcare systems like nurse call and patient monitoring. It enables quick and easy allocation of staff across a department to deliver patient centered care, eliminating the need for managing assignments in multiple systems.

*Unite Analyze* captures critical reporting information to help track key performance indicators, pinpoint workflow bottlenecks and areas for improvement, and enables managers to make better informed staffing decisions.

*Unite Axess for Smart Devices* delivers mobile alerts and messaging for clinicians to iOS and Android phones extending connectivity beyond the walls of a hospital. Patient information and alerts are delivered to a smart device utilizing robust, standards-based security, message encryption, and user authentication.

*Unite Connect for Nurse Call* delivers alerts, messaging and voice integration to leading nurse call systems, allowing caregivers to respond more quickly to patient requests. By delivering alert messages to a caregiver's mobile device, nurses can more effectively provide patient care and improve patient satisfaction.

*Unite Connect for Patient Monitoring* provides near real-time alert messages informing caregivers of specific patient monitoring events and integrates with a variety of patient monitoring systems. It can send waveform snapshots as part of an alert message to support faster decision-making and response prioritization.

*Unite Connect for EHR* enables workflow enhancements by providing access to patient health information to speed clinical decision-making and deliver messaging to staff for events like new patient admit, patient discharge, or patient transfer.

*Unite Connect for RTLS* provides an interface to real-time location systems enabling mobile alert messaging and providing location data information to Unite including location of staff, assets and patients.

*Unite View* enables a central display or "dashboard" of clinical alert notifications across an entire unit. An effective tool to better manage overall responsiveness, *Unite View* identifies bottlenecks which can help care teams balance patient assignments.

## For More Information

To learn how an Ascom Telligence solution can enhance patient satisfaction and the efficiency of your hospital, visit [www.ascom.us](http://www.ascom.us) or call 877-71ASCOM.



Scalability  
reduces central  
equipment costs and  
offers solutions for  
every hospital.

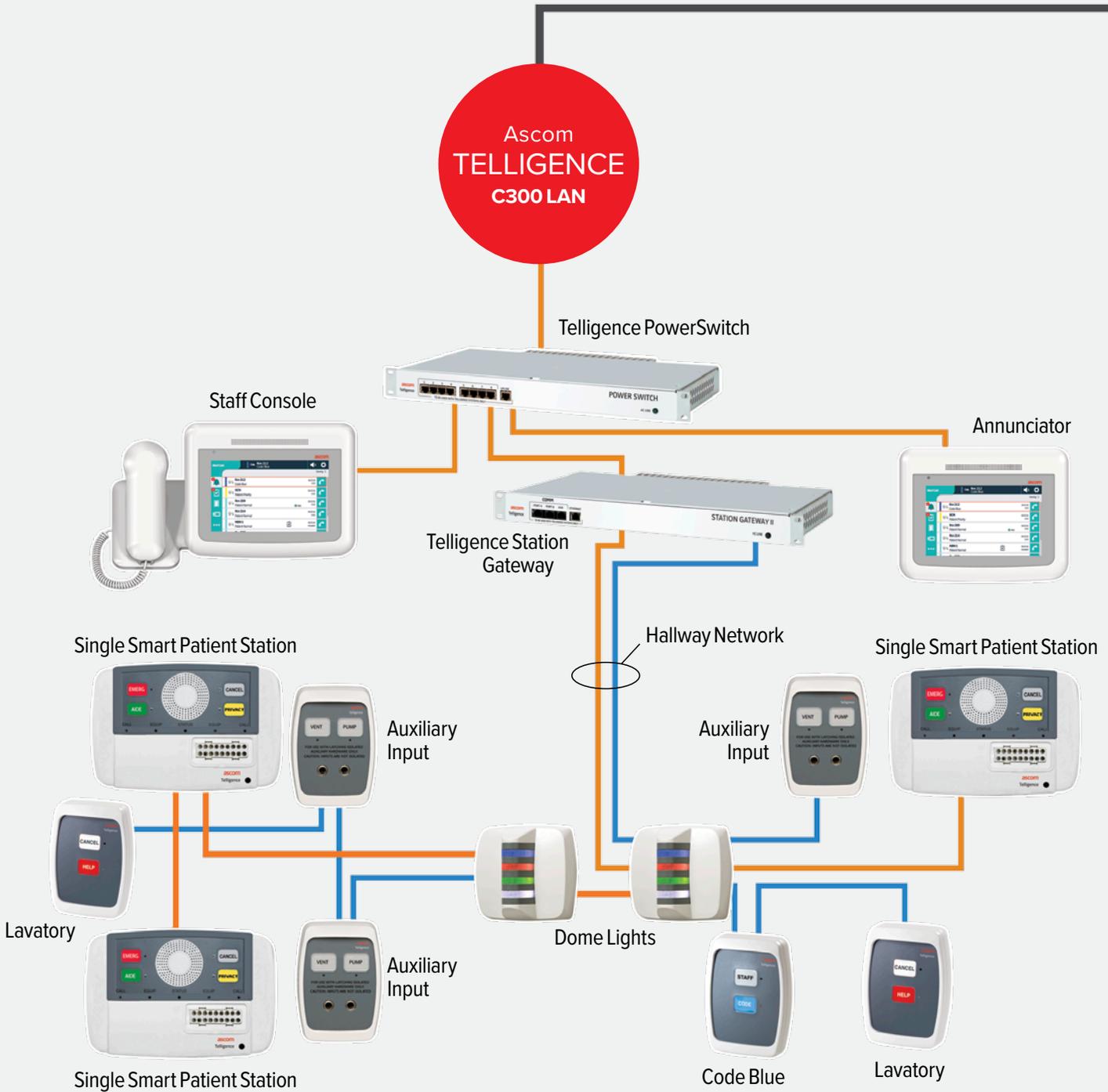
<b>WORKFLOW</b>	<b>Telligence C300</b>	<b>Telligence C600</b>
Priorities	14 selectable workflows	32 configurable workflows per nursing unit
Staff Station supported	No	Yes
Equipment alarms	Yes	Yes
Service tasks	1 level, 3 reasons	3 levels, 21 reasons
Configurable buttons and button labels	No	Yes
Peripheral device buttons can be programmed as toggle to enhance workflow	No	Yes
Cleaning mode supported	No	Yes
Color touchscreen Staff Console	Yes	Yes
Ability to upgrade patient calls priority at console	No	Yes
Annunciator can place and receive calls	No	Yes

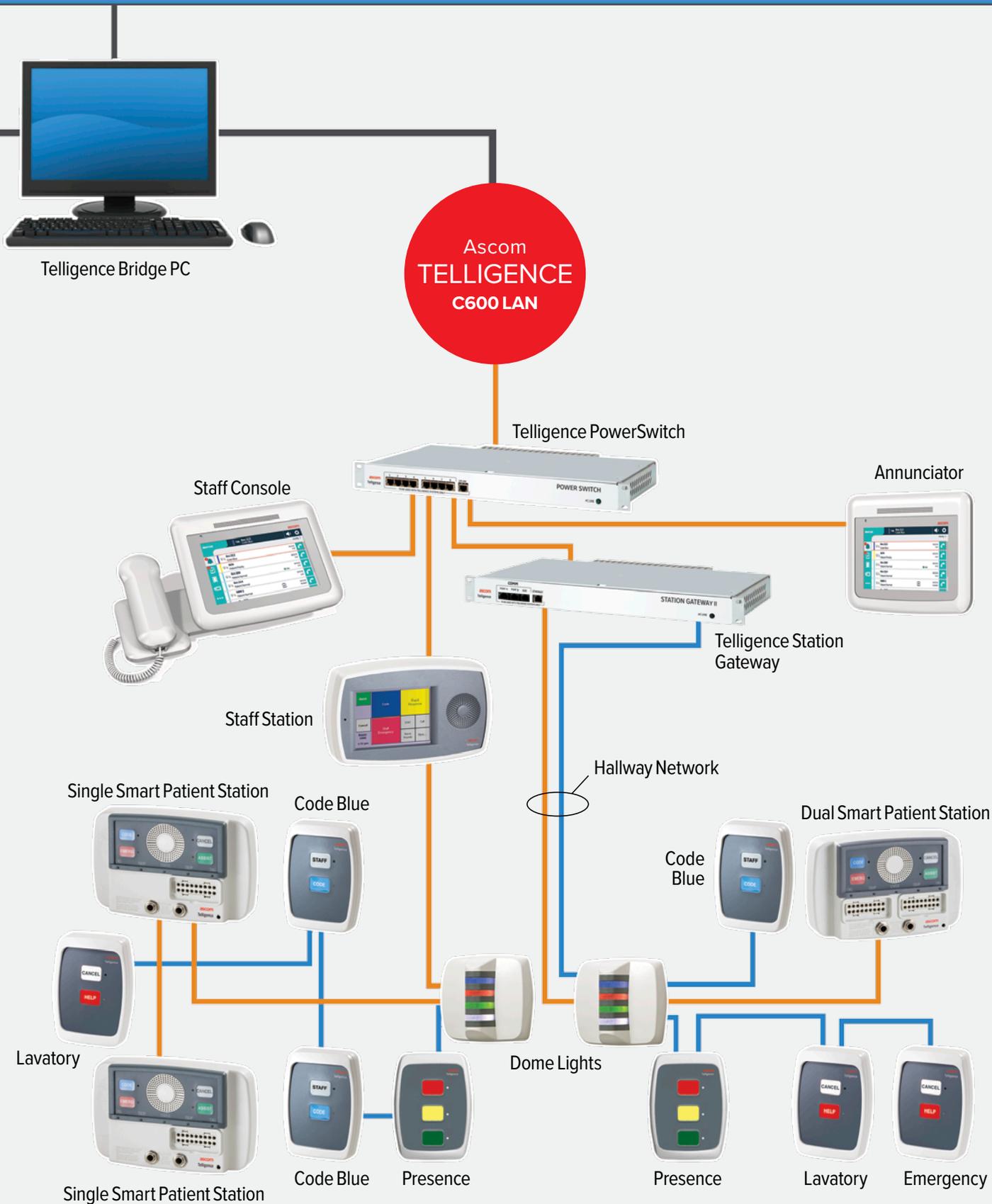
<b>BEDSIDE</b>	<b>Telligence C300</b>	<b>Telligence C600</b>
Dome lights	1, 2 section with 5 programmable colors, supervision buzzer	1, 2, 4 section with 9 programmable colors, supervision buzzer
Lighting/TV control	Yes	Yes
Code blue elapsed timer	Yes	Yes
Elapsed call time	No	Yes
NiteLite	No	Yes
2-way volume control for each patient	Yes	Yes
Privacy feature	Yes	Yes

<b>MOBILE</b>	<b>Telligence C300</b>	<b>Telligence C600</b>
Wireless phones supported	Yes	Yes
Ability to set service task from wireless handset	Yes	Yes
Auto location (RTLS)	No	Yes
Register staff presence	Green	Green, Yellow, Red
Nursing unit or duty area paging supported	No	Yes

<b>ENTERPRISE</b>	<b>Telligence C300</b>	<b>Telligence C600</b>
System capacity	1,500 rooms or total of 3 Telligence C300/C600 systems, whichever is larger	
Devices per system	40 IP devices; 512 rooms or 1,024 beds	600 IP devices; 1024 rooms or 2,048 beds
Remote configuration	Yes	Yes
Audio paths - external (wireless phones)	Up to 64 per subnet	Up to 64 per subnet
Unite integration supported	Yes	Yes
Fully supervised system	Yes	Yes
Third-party middleware integration supported	Yes	Yes
Bed connection	Bed receptacle	Bed receptacle, patient stations
Peripheral devices (code blue stations, lav stations, etc.)	One priority, room cancelable only	One button fully configurable with all 32 priorities; can be room cancelable or link to another button within the room
Audio	Staff control of "talk and listen"	Bidirectional and staff control of "talk and listen"
Password protection supported	No	Yes

# HOSPITAL LAN







# Vigilance products

*At JSM Micro, we design and manufacture nurse call systems for use in hospitals, nursing homes, clinics, assisted living, senior living and emergency services. We offer many options for integrated emergency patient call systems.*

*If you are looking for pendants, call cord, bed stations, corridor dome lights, emergency stations or other call bell devices on a platform with flexible alarm notification and event escalation, including notification to pocket pager, cell phone, SMS, wireless phones, LED Marquee and more, then let JSM Micro design a system around your needs.*

*We also offers unique personal pendant transmitters to call for assistance where it is needed, and also provide bed exit notification and wander alerts .*

*JSM Micro offers the unique ability to integrated many patient technology systems into one centralized system that helps to provide patient focused care with superior facility management.*

*We feel a quality system should have free technical support and that is exactly what we provide.*

## JSM-8000 Nurse Call System

The JSM Vigilance products are designed to provide all the **latest features** and functionalities required by today's health care industry, including **two way clear communications** between residents and staff members of assisted living facilities, long-term care and hospitals.

The JSM Vigilance system is an **efficient** and **affordable** nurse call system loaded with call features such as all call and much more.

The JSM-8000 VIGILANCE system is **fully integrated** with wireless telephone systems, on-site radio pocket pagers, PBX/analog telephone systems and marquee display. Connections are provided at the controller for all network wiring, optional stand-by batteries and various system ancillaries including JSM Report (JSMR) which records patient's calls and nurse response time

All wiring used CAT5E for high performance and low cost.

JSM Vigilance flexibility enables the **customization of a system** that will **meet the specific needs** of your organisation and **improve patient safety** and managed residents freedom. It includes alphanumeric room numbering and it **constantly** monitors all devices and indicates the exact ID number of any faulty devices.

The nurse Station Console Unit (NSCU) has a call display monitor that shows waiting calls, patient name and room information in order of receipt and importance.

Nurse Station Console Unit (NSCU) has a call display monitor that shows waiting calls, patient name and room information in order of receipt and importance.



***Best of all, no expensive licenses or upgrades are required to add more stations, staff notification devices or personal pendant transmitters at any time and no service contracts are required to support your system once installed.***

***“A simple integration to wireless phone provides instant voice communication between patient and staff”***





The system is proven to increase the efficiency of any facility. It is easy to install and friendly to use, all at competitive price value.

**JSM-1201**  
Corridor Dome lamp

**JSM-1177**  
Patient call point

**PAC-8900**  
Call Cord

**JSM-8000**  
Patient Station

**PL2014B24C**  
Wallboard  
Marquee Display

**JSMR**  
JSM Report Software

**JSM-PAG-KIT**  
JSM  
paging package



**Patient Station**

High Sensitive Speaker/Microphone for easy & hands free communication  
Durable and Modern  
Compact design

**Nurse Station Console Unit (NSCU)**

Compact and Modern Design  
LCD Display to show the Room No. of patient calling  
Able to pick up the patient's call either by handset or hands-free with built in microphone & speaker  
Volume control on both Speaker and Microphone  
Telephone design for easy maintenance and replacement

**Software**

JSM Report provides the tools to organize and analyze the patient call data including staff response times.

Active or passive check-in can notify staff of any resident who is not up and around by your selected time each day.

**Staff Mobility**

Staff members can use pocket pagers, wireless phones, cell phones and wall board to receive alarm calls and even talk hands-free to the resident.

The system can be linked to your existing overhead paging and provide notification generated by wandering patient systems, exit doors, smoke detectors, motion detectors, bed exit pads, pads, equipment status, or anything else your facility requires.

# Tunstall Vi+

*Life is a journey!*

*“The best way to predict the future is to invent it.”*

Tunstall’s sixth generation PERS unit has evolved. **The most technically advanced, flexible, and simple to use telecare platform we’ve ever made.**



*...and the best looking.*

**Tunstall**

## Life is a Journey!

Tunstall has always been at the forefront of developing solutions which address the challenges faced by its customers, gearing its resources towards supporting people's independence and helping providers to deliver best value services.

We envisage a future where older people and those with long-term health and care needs are empowered to choose where they live, have control over the services they receive, and the freedom to live life to the fullest. We believe that combining the right solutions with the right support can make this future possible now.

*"Freedom is a possession of inestimable value"*

-Cicero

## How does the Vi+ work?

Call for help from anywhere in the home by simply pressing your personal activator, or the large red button on the Vi+ unit. Calls are immediately sent to either a dedicated 24-hour monitoring center or a chosen care giver, where appropriate action can be taken.

Additional reassurance can be provided through the use of up to 35 wireless telecare sensors, which monitor a wide range of events. These include sensors for smoke, motion, and floods. A wireless pull cord and state-of-the-art iVi Intelligent Pendant with Fall Detection are also available, providing additional means of calling for help in the home.

iVi Intelligent Pendant with Fall Detection



## Who is the Vi+ for?

The Tunstall Vi+ provides numerous benefits for:

- People of any age living alone
- Senior, infirm or disabled people
- Individuals who have been discharged from hospital and require additional support and assurance at home
- People subject to domestic violence, harassment, repeat victimization, or distraction burglary
- Those living in high crime areas



*We want the Tunstall Vi+ to be a trusted and faithful companion to our seniors on their journey through life*



*The Tunstall Vi+ includes new and improved features, making it possible for seniors, those with disabilities, or those at risk to live safely in their homes*

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## Key Features

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- **NEW** Voice announcer function - with flexible recording times and the ability to play reminders when sensors are activated
- **IMPROVED** Virtual Sensors - intelligently process a series of events to determine an alarm condition and ensure the most appropriate action is taken. Two virtual sensors are available - inactive client in room; and bed/chair. Now enhanced to include not in and not out of bed alerts, and weekday/weekend settings
- **IMPROVED** Reminder facility – reminds the user about key information e.g. medication times with automatic reminder messages that have configurable acknowledgement options. Now enhanced with calendar based functionality including single, daily, weekly or monthly reminders
- Advanced personal recipient speech - enhances the information provided to personal call recipients by adding the type of telecare sensor that generated the call along with its location and battery state
- User recordable messages - allows messages to be recorded and used to replace fixed phrases for reassurance, personal recipients (This is an alarm call from Mrs. Smith) and reminder purposes
- Auto Answer - allows the home unit to answer calls from known telephone numbers, e.g. monitoring center, enabling remote programming to be carried out without disturbing the user (requires Caller Line Identification on telephone line)
- Advanced inactivity monitoring - checks for inactivity over a specified amount of time, such as over a 12 or 24 hour period, or can check over two separate time windows such as between 7-10am and between 8-11pm

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## Safety Features

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- **NEW** Pendant test reminder - automated test function to encourage pendant testing and reduce the impact of test calls on operator efficiency
- **NEW** Radio interference monitor - detects continuous RF blocking and provides audible and visual warning to the user and alarm call to monitoring center.
- **NEW** Integral ambient temperature sensor - with adjustable high and low temperature settings
- **IMPROVED** Periodic calls - an automatic test call can be set up to ensure the unit is working properly
- Automatic Daylight Saving Time - removes the need to manually adjust the clock on the unit

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## User Features

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- **NEW** Ergonomic design - a contemporary, compact design to fit into the modern home environment with removable speaker cover for easy cleaning
- Telephone answering with personal activator - users can answer incoming telephone calls hands-free by simply pressing their personal activator
- Automatic audible warning alerts - the unit alerts the user to power and telephone line failure/resumption with a visual and audible signal
- Optional local audible warnings - non-critical warnings such as loss of electrical power can be turned off at night to avoid disturbing the user
- Ability to signal a 'beep' - if the user is unable to speak in the event of an alarm, they can communicate with the operator by pressing their personal activator

# Wandering Patient

Solution Overview:

## RoamAlert® Wander Management

Easily and Reliably Protect Residents  
Who Are Prone to Wandering

### Challenges

Senior living communities struggle with how to keep wandering residents safe without compromising their independence, dignity and freedom. Wandering can have many dangerous outcomes, such as becoming lost, to fracturing a bone in a fall. According to the Alzheimer's Association, six in 10 people with dementia will wander. So, it's not a matter of if residents will wander, but when. Luckily, there are ways to help prevent it.

### Solution

STANLEY Healthcare's RoamAlert wander management solution gives you the tools you need to protect your residents when and where they need it. Residents are easily monitored through personalized protection and access control based on their needs, reducing the risk of wandering or flight and providing peace of mind to residents, family and staff. No other product offers the same level of flexibility and scalability, combined with ease of use for staff and administrators.

#### START SMALL AND GROW

RoamAlert is modular and expandable. You can meet your needs today—and stay within your budget—while planning for the future. Real-time resident locating, automatic door bypass, alarm reporting to portable devices—the RoamAlert solution is capable of all this and more. But it can also be used to guard a single exit.

When you're ready to expand, so is RoamAlert. The solution can be scaled to cover not just an entire building, but an entire campus. You can add not just resident locating, but personal emergency response for your staff and residents. You can even track assets like the keys to medicine cabinets.

### How It Works

Each resident wears a small radio transmitter and exits are protected by door controllers. When a resident approaches an exit, the door controller locks the door to prevent the resident from leaving; if the door is opened, an alarm sounds. Even when residents loiter near a door, which could be predictive of an exit, a notification can be generated.



### Benefits

- Increases resident security
- Improves response time
- Reduces the risk of wandering or flight
- Provides peace of mind
- Increases resident satisfaction

*RoamAlert is highly effective at preventing wandering and elopement. It's also easy to use, saves time for our nursing staff and has helped advance our resident safety.*

- Gerard Kaiser  
Vice President of Senior Services  
Broadlawn Manor

The optional RoamAlert software offers you a wide range of options for central reporting, integration with other security systems such as the Arial® emergency call solution, and resident locating. Door locking and alarm functionality can be configured and scheduled differently for varying daytime and night time modes.

The door controllers are monitored by a server running the RoamAlert software. This application provides information in a clear and intuitive visual format that includes a census list of all residents and one or more floor plans of the facility. Access to the software is password controlled to ensure security.

In an alarm, a warning immediately appears in the software showing the resident's name, the location of the alarm and even a picture. The RoamAlert system can also be integrated with other devices to enable a range of responses to an alarm, from activating a strobe light to sending a detailed page message.

Alarms can be cleared either at the door via a keypad, or through the software. In either case, the system captures complete information on the event for future reference:

the time, the location, the resident and the staff member who responded.

Escorting a resident through a protected exit can also be done through the software or at the door via a keypad. As an alternative, staff members can be equipped with pendant tags that enable them to automatically pass through a door with a resident. In all cases, the identities of the staff member and the resident are recorded in the system database.

With the switch to pulse-enabled RoamAlert wrist tags and the addition of receivers to detect tag messages, the RoamAlert system also offers resident locating. The system tracks the location of all tags, and automatically updates location information in the RoamAlert software. In an emergency, you can locate each individual in a matter of moments.

You can extend protection to all residents and staff through the addition of pendant tags, which enable the individual to call for help from anywhere in your community at any time by pushing the bottom on the tag.

## Solution Highlights

- **Reliable technology.** The RoamAlert solution uses highly reliable FM technology designed to handle interference from other radio frequency devices.
- **Small resident tag.** The RoamAlert tag is small and lightweight: only a third of an ounce and one inch across. With no hard edges, it is safe to use even on the most delicate skin, and so small that residents and family will barely notice it.
- **Personalized resident protection.** No other system offers as many options for customizing protection for each resident—letting them pass through some exits, but not others—giving them the maximum possible freedom.
- **Scalable and expandable.** RoamAlert lets you start with one or two doors for perimeter protection and expand up to a community-wide system for wander management, emergency response and resident locating.



Securaband™ tag and strap

*RoamAlert has helped us create an even safer environment. But in addition to those safety benefits, our nursing staff appreciates the ability to view residents' location even when they are not in a high-risk situation.*

- Donna Foster

RN Nurse Manager, Broadlawn Manor



### RoamAlert Tag

Each resident requiring wander protection wears a RoamAlert radio frequency identification (RFID) tag that contains a unique ID number. The RoamAlert tag is one of the smallest and lightest on the market today, weighing less than a third of an ounce. The tag is worn on the individual's wrist or ankle and is attached using a tear-proof band. It is also compatible with the Securaband™, which provides a robust physical barrier to removal. It is waterproof, hypoallergenic and can be transferred from one person to the next.



### Door Controller

Each identified exit is monitored by a door controller. This device generates a field, which defines the door coverage area for tags. When a tag enters the field while the door is open, a wander alarm is generated. If the door is closed, the door controller can activate an optional magnetic door lock to hold the door securely shut, and generate a Loiter Alarm if the resident does not move away from the door within 55 seconds. The door controller can integrate with existing access control systems to enable staff to escort a monitored resident through the exit. Two on-board relays enable the RoamAlert system to activate a range of other devices, such as strobes and sounders. The door controller is usually installed out-of-view above a drop-ceiling, and an extra antenna may be connected to enlarge the detection field to cover double doors or other wide openings.



### Elevator System

This device is a door controller specifically designed to be installed inside elevators. The elevator system travels with each elevator car, containing the detection field within that car. An alarm condition within one elevator car will not impact the operation of other cars in the bank. Nuisance alarms from residents passing through the elevator lobby are eliminated. The operation of the elevator system is designed to make it easy for staff to escort a resident. When a tag is within detection range and the elevator doors are open, no alarm is generated for a few seconds to give the staff member time to enter their bypass code on the keypad inside the elevator. If a tag enters the elevator and is not bypassed, the elevator doors remain open and the elevator cab will not be allowed to travel.

### Server

The server PC runs the RoamAlert software. It is physically connected to the door controllers, receivers and alarm integration modules via a network manager. Typically located at a nursing station, the server PC monitors and controls all system devices, and is used for configuring system operation. Additional client PCs can be connected throughout the facility over a local area network (LAN) to enable staff to monitor activity and perform basic functions. The system can be accessed from different locations simultaneously.

### Software

The RoamAlert software displays facility floor plans and a resident census. Designed for ease-of-use, the software presents only task-critical information to the operator. Different levels of password access ensure security while allowing staff members to perform their jobs efficiently. User accounts can be created and authority assigned according to each facility's requirements. The software records all activity, including alarms, in a database; a variety of reports of system activity can be viewed onscreen or printed.



### Pendant Tag

For staff members, the pendant tag can be used to automatically bypass an exit with a monitored resident without having to enter a passcode on the keypad, or initiate an action through the software. The system records the identity of the staff member and the resident. The pendant tag also enables an individual to call for assistance from anywhere within the coverage area of the RoamAlert system. When the individual presses the distress button on the front of the tag, a message is sent to the system and the identity of the person and their current location is displayed in the software. This application requires the use of receivers.



### Asset Tag

The asset tag is used to locate and protect valuable mobile assets within your facility, such as keys to a cabinet. The tag sends a regular signal that is detected by the receivers. This information can be used to accurately track and locate equipment within the facility. The compact tag can be attached to a variety of assets and includes an anti-tamper mechanism to prevent unauthorized removal. The system can also generate an alarm if the tag is brought near a monitored exit without authorization, and when the battery power in the tag becomes low.

### Receiver

The receiver is an optional device that enables resident locating with pulse-enabled RoamAlert tags. Typically installed in the ceiling, receivers are placed at regular intervals throughout the facility to pick up messages from tags when they are away from a door controller. This information is forwarded to the server PC along with the receiver's own unique identity. The server PC then automatically updates location information in the software. The server PC monitors the operation of each receiver to ensure a high level of operational confidence. If the receiver fails to operate for any reason, an alarm occurs in the software.

### Alarm Integration Module

The alarm integration module is an optional device that provides additional inputs and outputs for the RoamAlert system to integrate external alarms and security devices. The RoamAlert software provides a variety of options to customize the operation of each connected device, including time-of-day functions and grouping by zone. A typical application might be monitoring windows to prevent a resident from leaving the facility.

### Network Manager

The network manager connects the network of door controllers, receivers and alarm integration modules to the server PC over an Ethernet connection. This arrangement gives the facility greater flexibility to locate the PC in the optimum spot, while reducing cabling costs by piggybacking on an existing LAN. The network manager continues to manage the device network even if communication with the server PC is lost. All events are logged for up to 8 to 10 hours under the maximum network load and then passed to the server PC when a connection is re-established.

A woman with short white hair is sitting on a patterned sofa. She is wearing a striped shirt and a light-colored jacket. A small dog is sitting on her lap. The background is a window with greenery outside.

Ascom  
**TELECARE IP**  
Emergency Call System

The Industry leader  
in resident safety.

**ascom**



Ascom senior living solutions enable effective communications that support resident freedom and mobility while enhancing safety, security and sense of independence.

# Ascom teleCARE IP System

*A wireless emergency call system designed to lower your risk profile, enhance the safety and satisfaction of your residents and boost caregiver productivity.*

## NEW TELECARE IP SAFETY FEATURES

The most versatile check-in capability in the industry.

Relative Signal Strength Indicator.

Automatic monitoring and smart alerts for safe and secure living.

### Introduction

Your caregivers work hard to create a comfortable environment while attending to residents' individual needs and safety. With a long-standing heritage in health-care communications, Ascom focuses on innovative technologies to aid caregivers in this goal. Leveraging our unique award-winning pendant technology and outstanding audio and phone system, teleCARE can enable your staff to unobtrusively attend to safety while residents confidently enjoy an active lifestyle.

### Discretely Monitor Residents

With its award-winning design, the teleCARE pendant is the only solution that your residents will actually want to wear. The teleCARE transmitter pendant is designed to give residents independence while ensuring rapid assistance when necessary. This attractive wireless transmitter is customizable, completely waterproof and discretely connects residents to staff.

When you want to ensure that residents wear the pendant, only the teleCARE pendant transmitter has an infrared sensor that can alert staff immediately if a pendant is removed. Ascom's unique active check-in system is the easiest and most effective in the market.

Residents can check-in by pushing a button, moving their pendants from motion sensors or even by making a regular call. And when you want to make check-in even safer, only the Ascom pendant alerts staff if it senses that a resident is unconscious.

The system also offers automatic monitoring and smart alerts for safe and secure living. Delivered through a wide variety of sensors that can be connected to teleCARE, either hard-wired or wirelessly, this feature creates meaningful alerts for individuals and situations that the facility chooses to monitor. And because the caregivers who know the resident best actually set the alert rules instead of a program, there are fewer false alarms.

### No Worries About Elopement

According to the Alzheimer's Association, as of 2013 an estimated 5 million Americans 65 and older have Alzheimer's disease and 60% of these will wander. Ten percent of all lawsuits pertaining to senior living communities deal with elopements and in 70% of these cases, there is a resident death.<sup>1</sup>

The teleCARE IP call system has the most comprehensive wander management solution in the industry and can give you a special, urgent call if someone has eloped. It also has the unique ability to proactively prevent injuries by automatically sending an alert to staff when vulnerable residents are in harm's way.





**Ascom teleCARE IP Lowers Risk:**

Residents are less likely to elope.

Early warning when a resident is in trouble.

Passive resident checkin.



*Ascom is the only company to offer an emergency call, messaging middleware and wireless voice system.*

Locks controlled by teleCARE eliminate the need for keypads, which are often used by residents to leave the building. This can dramatically lower your risk of resident injury, elopement and costly litigation.

**Faster Service, Better Satisfaction**

With the teleCARE IP call system, calls from residents are quickly routed to their primary caregiver and escalated to team members as needed. Accurate, unique location technology enables caregivers to go directly to residents in need. teleCARE now offers RSSI, a simplified and highly effective method to locate residents in single story buildings and outdoor areas. Voice modules and Ascom wireless phones provide an instantaneous communication channel, eliminating extra steps, saving time and giving residents assurance that help is on the way.

These features allow caregivers to respond rapidly, whether the resident needs a little extra help reaching that top shelf or has fallen on a slippery floor. To residents, a minute is an hour. And workflow efficiency gains and rapid responses result in improved staff availability, and thus increased resident satisfaction.

**For More Information**

Ascom is North America's healthcare communication company and teleCARE e-call has industry leading safety features that can improve the efficiency and safety of your community. To learn more, call Jack Sheehan at 877-71ASC0M x2505 or visit [www.ascom.us](http://www.ascom.us).

## ASCOM TELECARE IP BENEFITS

Feature & Function	Administrator & Management	Staff & Caregiver	IT & Facility Management
<b>Wired &amp; Wireless Architecture</b>	Easy, economical to install. Flexible for every environment.	Resident mobility. Resident independence.	IP networks offer a choice of wired and wireless. Flexible to add wireless stations even if wired.
<b>High Reliability System</b>	Smooth, efficient operation.	Peace of mind.	Higher reliability with fewer RF de-centralized architecture, no central point of failure “hops.”
<b>Customizable Mobile Pendant</b>	IP67 durability, 1 year battery life.	Easy to locate residents calling for help anywhere on-site.	Supervised with 4 minute “heartbeat.” Reprogrammable in the air.
<b>Integrated Wanderer Control</b>	Mitigate risk of resident wandering with a single platform.	Regain time spent monitoring exits. Distinct, high priority elopement call.	Call alert wireless for only a few feet for less interference. Easily, economically scalable. Worry-free key pad code changes.
<b>Supervised Communication System</b>	Assurance that system is constantly monitored.	Reliable emergency call system.	Issues easily, quickly identified.
<b>In-Room Speech</b>	Efficient communications.	Confirm residents’ needs enroute.	High quality, low maintenance. Supports VoIP and benefits from SIP with a virtually non-blocking speech path.
<b>Reporting</b>	Call activity auto documented.	Reports on demand. Events/ activity auto documented.	GUI can be pulled up on any computer linked to system. No user licenses.
<b>Flexible Event Notification</b>	Phone, pager, smart device support.	Speak directly to residents and staff.	Easily programmed escalation, routing.
<b>System Integration</b>	Monitor building systems from a single platform.	Access to more relevant information.	Monitor calls and wander from one system.
<b>Auto Monitoring / Smart Alerts for Safe &amp; Secure Living</b>	Lower liability, time savings for staff. Useful marketing/sales tool.	Unobtrusive monitoring/alerts that expedite aid, minimizing harmful events.	Simple to use/maintain with fewer false alarms.
<b>Standards for Safety</b>	UL 2560 Certificate of Compliance.	Improved resident satisfaction.	Third party safety certification of UL2560. Large international installed base.

### About Our Company

Ascom is the leading Information and Communication Technology provider, delivering integrated workflow intelligence via services and applications that connect and mobilize healthcare professionals to improve patient safety and satisfaction. From scalable nurse call communication systems for better clinical workflow to the first purpose-built smart devices for healthcare, all Ascom solutions seamlessly integrate via Ascom Unite software into existing systems in hospitals, clinics and senior living communities. Based in Research Triangle Park, North Carolina, Ascom is a subsidiary of Ascom Group. For more information, visit [www.ascom.us](http://www.ascom.us) and follow @AscomNA and LinkedIn.

<sup>1</sup>Source: Alzheimer’s Association website. Learn more at [alz.org](http://alz.org).



# Real Time Location

## Asset Tracking Tag



### Features That Make a Difference:

- Triple RF, IR, LF signaling technologies
- Wireless Call button functionality
- Asset, belt and lanyard mounting options
- Status LED indicators
- Field replaceable lithium battery
- Simple to use, easy to clean
- CE, FCC, IC compliant

### Applications & Uses:

- Real-time location tracking
- Inventory and loss prevention
- Supply-chain logistics
- Wireless emergency/duress signaling
- 24/7 safety monitoring & supervision
- Hands-free access control
- Time and attendance
- Location-based billing

The Elpas Asset Tracking Tag is a supervised triple-tech, Active RFID Tag for the wireless real-time monitoring and tracking of high-value mobile assets or individuals.

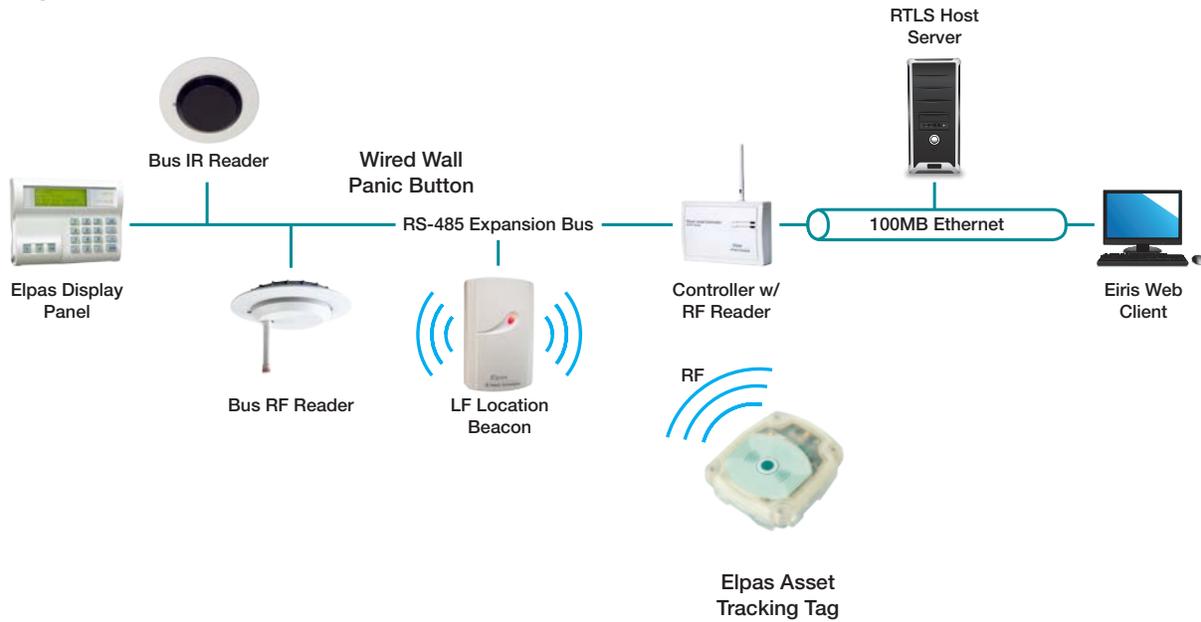
The tag bundles triple-tech wireless signaling technologies in a field proven design to deliver precise Real-Time Location System (RTLS) data.

The tag features an emergency call button for duress alerting or for reporting maintenance requests. Pressing the call button causes the tag to transmit positioning data that identifies the person needing assistance or the asset requiring service as well the precise building location of the incident. This data is used by RTLS

applications or integrated with legacy security or building management systems for faster and more effective response efforts. The tag also delivers instant near-exit, sub-room or hallway location awareness for preventing unauthorized building movement.

The Asset Tracking Tag is part of the growing portfolio of Elpas application specific Active RFID Tags designed to meet the safety, security and visibility needs of the Healthcare, Government, Institutional, Commercial and Industrial sectors.

## System Diagram



## Specifications

Signaling Technologies . . . . . RF, IR, LF  
 Supervised Events . . . . . Button Press / Release LF and Tamper,  
 Low Voltage Motion / Stationary  
 Power Source . . . . . 3V/270mAh Lithium Battery, CR2430  
 Average Battery Life . . . . . 15-60 plus months, depending on usage  
 and configuration  
 LED Indicators . . . . . Transmission, Button Press

Construction . . . . . Nylon (PA Plastic)  
 Dimensions (H x W x D) . . . . . 34 x 40 x 15 mm (1.3 x 1.6 x 0.6 inches)  
 Weight . . . . . 20 grams / 0.75 ounces  
 Operating Environment . . . . . Temp: -20°C to 70°C (-4°F to 159°F)  
 Humidity: 90% non-condensing  
 Compliance Standards . . . . . FCC, CE, IC: compliant  
 Warranty . . . . . 1-year limited warranty (excluding battery)

*Product offerings and specifications are subject to change without notice. Not all products include all features.*

## Ordering Information

Model Numbers	Description
5-ETC00433C	Asset Tracking Tag, IR/RF/LF, 433MHz
5-ETC00433C-3	Asset Tracking Tag, RF/LF, 433MHz

## Accessories

Model Numbers	Description
5-BC012430	3V/270mAh Lithium Battery, CR2430
5-ETC09001	Equipment Clip (5 units)
5-ETC09002	Belt Clip (5 units)
5-ETC09003	Pendant Clip (5 units)

## Related Products



Elpas Local  
Controllers



Elpas Readers



## Patient Flow Solution

### Enhancing Patient Throughput in Hospitals with Elpas RTLS

Elpas Patient Flow is an RTLS Safety, Security and Visibility Solution that gives hospitals the ability to monitor and analyze how patients are moving through the different stages of care delivery by automatically monitoring their movements and interactions with medical staff and assets. The result can be improved patient care, satisfaction, and an increase in hospital revenue without the need for new building programs, supplemental capital investments or additional workforce expansions.

**How Patient Flow Works:** At the time of admission, each patient is provided with an Elpas Active RFID Patient Tag which transmits real-time location visibility. These tags are used to monitor how patients are moving through the different stages of care delivery, freeing staff from the time consuming task of manual record keeping.

Hospital personnel are provided with automated time stamped dashboard-like snapshots of the current care status of each patient, graphically overlaid onto the relevant floor plan from time of admission until discharge. This information can also be displayed on electronic boards in waiting rooms updating family and friends as to the progress of a patient's treatment. Additionally, to facilitate better task coordination, automated alerts can also be sent to medical staff allowing them to check on patients waiting for treatment, to update room status, to transfer patients or to issue housekeeping requests.

## Patient Flow Solution Features

### Hospital Wide Visibility for:

- Supporting nurse station and waiting room display boards
- Providing patient direction boards between departments
- Locating and identifying missing patients
- Indicating patient room status (e.g. available, occupied, requires housekeeping, being cleaned)
- Logging patient, staff and asset interactions

### Advanced System Supervision

Patient tag and infrastructure supervision includes automatic system alert notifications, audit trails and system logs

#### Automated alerts for:

- Handling patient movement between departments
- Notifying medical staff to check on patients still waiting to be seen
- Automating room status updates and issuing housekeeping requests
- Improving coordination and communication among staff members

#### Robust reporting tools for:

- Identifying operational bottlenecks
- Analyzing patient wait times
- Evaluating patient-staff-equipment interactions
- Optimizing room/bed utilization

### Highly Scalable Tag Capacity

Additional patients can be added at any time without risk

### Flexible Alert Notification Output

Supports paging services, display panels, SMS messages, emails, automated PA announcements and warning messages on computer screens

### Back-End Integration

Supports easy integration with other hospital systems

### Easy-to-Use Software

Real-time interactive screens for managing patients from admission through discharge

### High Availability

Distributed local control ensures ongoing patient monitoring even when network segments or the RTLS server are offline

### International Safety Compliance

CE, FCC and IC compliant; generates no EMI interference.



*Elpas Patient Flow also supports easy integration with other Elpas Safety, Security and Visibility Solutions as well as legacy systems and processes. The solution helps hospital decision makers monitor and analyze key performance indicators and gain a better understanding of the steps that can be taken to increase patient throughput.*

#### Related Elpas RTLS Applications:

Staff Duress Call

Wireless Nurse Call

Wandering Patient Protection

Temperature Monitoring

Medical Asset Management

Hand Hygiene Monitoring

Assisted Living Monitoring

Infant Protection



*Safety,  
Security &  
Visibility*

## Active RFID/RTLS Healthcare Solutions

Protection & Visibility of Patients, Staff & Assets

Elpas delivers a comprehensive range of infant protection, staff utilization, medical equipment management and wireless emergency call solutions for healthcare organizations.

Elpas' complete range of advanced field-proven solutions can suit every requirement, whether it be a large hospital or a small nursing home where the real-time identification and location of staff, patients and assets are mission critical. The result: enhanced workflow, improved patient care and safety, improved resource utilization, audit trails to meet regulatory compliance and an overall reduction of operating costs.

- Unified platform for multiple applications
- ID & location visibility of patients, staff and assets
- Application specific Active RFID Tags
- High availability & supervised distributed control
- Scalable from single door to campus environments
- Easy to use tracking and management software
- Integration with 3rd party management systems
- Advanced reporting options
- Ethernet compliant infrastructure
- CE, FCC, IC compliant



## Solutions:

### Wireless Nurse Call

- Protects patients anywhere in the facility
- Enables patients to feel safe and secure
- Streamlines workflow; reduces operating costs
- Generates staff-specific patient call logs

### Hand Hygiene Monitoring

- Reduces the rate of healthcare acquired infections
- Monitors adherence to hygiene compliance policies
- Generates reports per caregiver/examination room
- Helps identify the source of an infection outbreak

### Hospital Staff Protection

- Protects lone workers and employees at risk
- Enables staff members to feel safe and secure
- Supports hard-wired or wireless call-points

### Medical Asset Management

- Enhances asset optimization; prevents asset shrinkage
- Streamlines workflow; reduces operating costs
- Improves regulation compliance

### Infant Protection

- Guards against abductions and mother/baby mismatches
- Enforces accountable match test discharge procedure
- Prevents unauthorized movements or transfers of infants
- Continuous baby supervision
- Provides peace of mind for parents and maternity staff

### Wandering Patient Protection

- Protects against patient wandering or elopement
- Maintains patients' freedom and independence
- Continuous patient supervision
- Provides peace of mind for families and medical staff

### Wireless Temperature Monitoring

- Monitors assets/environments that require temperature range compliance
- Prevents spoilage of temperature sensitive assets
- Reduces labor costs associated with manual monitoring & logging procedures

# Infant Protection



## BabyMatch Infant Protection Solution

### A Small Guardian Angel for Every Baby in Your Care

BabyMatch is an Elpas RTLS Safety, Security and Visibility Solution that helps hospitals prevent baby abductions and unintentional baby mismatching in maternity and neonatal departments. BabyMatch reduces the need to continuously keep an eye on the whereabouts of each baby by automatically tracking the real-time location of infants from the time of delivery to the time of discharge.

**How BabyMatch Works:** At the time of birth, a tamper proof Active RFID (Radio Frequency Identification) Charm is placed on the baby's ankle. This provides real-time, bassinet level, location awareness of the protected infants. Should there be an attempt to remove the protected infant from the secured area, without approval or authorized escort, the Active RFID Charm will trigger BabyMatch to alert personnel of the evolving security incident.

## BabyMatch Infant Protection System Features

### Highly Scalable Tag Capacity

Protects and monitors as many babies, mothers, plus staff and family members as required without risk to infant safety

### Mother/Baby Matching Option

Prevents accidental baby switching; confirms that the mother is with the correct baby. Supports multiple births (twins, triplets etc.). Match tests may be activated by mother or a staff member.

### Tamper Alerting

Automatically transmits location based security alerts upon any unauthorized attempt to remove the bracelet from the protected baby, even if submerged in water

### Flexible Baby Escort Options

Permits the regular movement of mothers, staff and visitors in and out of protected hospital units, while preventing unauthorized infant transfers

### Location Resolution

Provides sub-room and pinpoint near-exit location resolution

### Easy-to-use Software

Enables staff to enroll and personalize new tags, track the location of tags, monitor security alerts, temporarily deactivate bracelets and discharge babies

### Advanced System Supervision

Contains comprehensive device and software supervision with robust event audit and system log options

### Upgradable & Scalable

From single-door installations to hospital-wide RTLS Solutions including pediatrics, staff/patient duress calls, staff utilization and medical asset management

### Backend Integration

Supports 3rd party integration to security systems, work flow, patient care and billing platforms

### System Reliability

Supports distributed local control which ensures that infants remain protected even when the network or server is offline

### Smartphone Security Breach Protection

Alarms when an attempt to by-pass exit detection is made by placing a smartphone device against the infant tag

### International Safety Compliance

CE, FCC, IC compliant. No EMI interference to hospital equipment



Elpas Infant Protection Bracelet

*Elpas BabyMatch can be tailored on-site to fit the patient care and security protocols of any healthcare facility. BabyMatch can also be scaled to deliver added Elpas RTLS Safety, Security and Visibility Solutions without degradation to its primary infant protection functionality.*

### Related Elpas RTLS Applications:

Staff Duress Call

Wireless Nurse Call

Wander Protection

Temperature Monitoring

Medical Asset Management

Patient Flow

Hand Hygiene Monitoring

Assisted Living Monitoring

## Solution Overview:

# Hugs® Infant Protection

Hospital-Wide Infant Protection  
and Mother/Infant Matching

## Challenges

Newborn infants face specific and unique security and safety risks, in the form of abduction and mother/infant mismatches.

The abduction of newborns is a threat faced by all hospitals offering maternal child care services. Abductions have occurred in hospitals of varying sizes and types, in urban and rural areas, and in countries around the world.

Abduction attempts are usually carefully planned, often involve impersonation of staff or other forms of deception, and can feature violence. They can also occur in different parts of the hospital. While the majority of abductions originate in the mother's room, a significant percentage of successful abductions have occurred in the Nursery, in Pediatrics and in other parts of the hospital.\*

Mother/infant mismatches are a common occurrence, in spite of the universal use of the matching ID band system. This purely manual system is prone to human error from similar or identical names, misreading numbers or returning an infant to the wrong bassinet.

These factors demand that hospitals put in place comprehensive procedures and solutions to protect infants.

## Solution

The Hugs solution provides hospital-wide protection against infant abduction and mother/infant mismatches, with each infant individually protected by multiple layers of security. As a part of STANLEY Healthcare's Wi-Fi RTLS platform, the Hugs solution offers several options and integrations to expand security, increase patient safety and support efficient workflow.



## Benefits

- Increased protection for infants throughout the hospital
- Support for correct matching of mothers and infants
- Peace of mind for staff and family

*/// The Hugs solution enables infant protection not just in the Obstetrics Unit, but everywhere in the hospital.*



## How It Works

The Hugs solution uses Wi-Fi based wireless technology to protect infants throughout the hospital, combined with a powerful software platform to manage infants, alerts and day-to-day tasks.

### Effective security

Every infant wears a Wi-Fi Hugs tag on the ankle that is attached with a special tamper-detecting band. The tag activates the moment it is attached, and is automatically enrolled in the system. From that moment forward, the infant is protected in several ways:

- **Exit protection:** Exits from the Obstetrics Unit, including elevators, are monitored by Exit Controllers. If an infant is brought near to an open exit, an alarm occurs. If the door is closed, the Exit Controller can activate a magnetic door lock to prevent egress (staff may securely bypass the exit via a keypad or the access control system).
- **Tamper detection:** The Hugs tag features a tamper detection mechanism, and will send an alarm message if the band securing the tag to the infant is cut or detached. The Hugs solution monitors these messages anywhere in the hospital with Wi-Fi coverage, so that infants remain protected even when transported beyond the Obstetrics Unit for tests or other purposes.

## Solution Highlights

- Hospital-wide infant protection: Leverage your existing Wi-Fi network to protect events everywhere in your hospital, not just the OB unit
- Automatic mother/infant matching: Kisses® is the only audible and automatic mother/infant matching solution
- Multiple notification options: Monitor alarms on any PC or tablet, or push information to staff via IP phones, Vocera badges, text message and e-mail
- Enterprise solution: Modular and scalable architecture with high availability and clustering capabilities, central management of distributed sites and enterprise databases
- Additional applications: Temperature and humidity monitoring, asset management, hand hygiene compliance monitoring, patient visibility and staff assist
- Comprehensive implementation support: Starting with a detailed site assessment, STANLEY Healthcare works in partnership with IT, clinical and security staff for an effective solution aligned with clinical workflow



- **Continual supervision:** The solution monitors each Hugs tag, and will generate an alarm if no messages have been received from the tag for a certain period, which can be as low as one minute. As with tamper detection, the system monitors the tag anywhere in the hospital with Wi-Fi coverage.
- **Out of Unit alert:** The solution can generate an alert if an infant is detected outside the Obstetrics Unit, but there is no record of a staff member performing a Transport. This protects against the remote possibility that an abductor manages to get outside of the protected area with an infant without an Exit alarm being generated.

In addition, the optional Kisses mother/infant matching component provides automatic matching of mothers and infants. Each time mother and baby are brought together, an audible signal will alert staff of a mismatch. The only additional equipment required for this application is Kisses tags for mothers.

### Keeping staff informed

Staff members can monitor system activity and perform day-to-day tasks through the browser-based MobileView software, accessible from any PC or tablet with network access to the server. Alarm information is displayed in the Instant Notifier application, which provides complete alarm details, a map showing the infant's location, and, optionally, images from the CCTV system. The Hugs solution can also push notifications to e-mail, text message, IP phones, and Vocera voice communication systems—staff can remain fully informed while going about their duties.

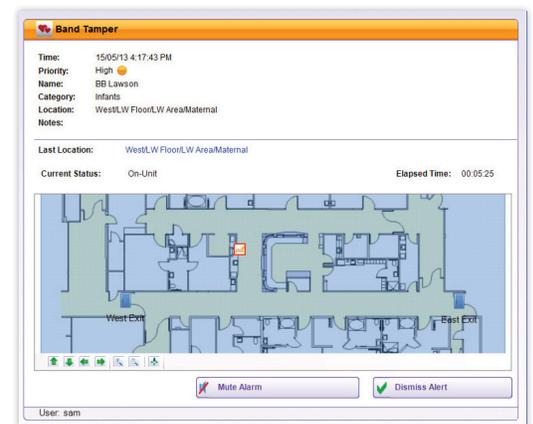
### Expanded safety and security

As a part of STANLEY Healthcare's RTLS platform, the Hugs solution offers several options for increased patient safety and improved efficiency:

- **Temperature and humidity monitoring:** Monitor breast milk refrigeration units, blanket warmers and pharmaceutical cabinets to improve patient safety and automate compliance reporting.
- **Asset management:** Track and locate breast pumps, wheelchairs and other key assets, with automatic alerts if a device moves outside the unit.
- **Hygiene compliance monitoring:** Improve infection prevention through automated around-the-clock monitoring of hand hygiene events.
- **Staff assist:** Enable staff to call for help for patients or themselves using a Wi-Fi staff tag with a call button.
- **Patient visibility:** Monitor patients at risk of wandering and receive alerts when a patient exits the safe area or enters a restricted area.

Name	Status	Hugs Tag	Location	Alerts
Smith, Courtney	Low Battery	11	Building 1/Floor 1/Area 1/Man	Battery Level Event
Barbara Green				
Davis, Amanda		30	Building 1/Floor 1/Area 1/Man	OK
Dune, Sandy		27	Building 1/Floor 1/Area 1/Man	OK
Jackson, Baby				OK

Census at a glance



Instant Notifier alert



### Hugs Tag

This small Wi-Fi transmitter incorporates exit detection, a tamper detection mechanism, and regular supervision signals. In addition, the BabySense™ feature alerts staff if the Hugs tag is not securely on the infant. The Hugs tag is waterproof, hypo-allergenic, and rechargeable using the Hugs Tag Charging Station.



### Kisses Tag

The optional Kisses tag is worn by mothers to support mother/infant matching. It is bonded with her infant's Hugs tag at birth and for the duration of their hospital stay. The Hugs tag automatically checks for the right match whenever it is brought near a Kisses tag, with an immediate audible alert of a mismatch.

### Exit Controller

Exit Controllers are placed at exits from the safe area (usually the Obstetrics Unit), and emit a detection field that covers the opening. When a tag enters the field, it immediately transmits a special message to the Controller to lock the exit if closed, or generate an alarm if open. Optional keypads or card swipes may be connected to the Controller to enable staff to bypass an exit with a patient.

The Controller will operate in a "standalone mode" ensuring that locking and local alarming continue even in the unlikely event that communication is lost with the network or server PC.

### Facility Wi-Fi Network

The Hugs solution uses standard Wi-Fi access points to receive the tag transmissions, time stamp them, and relay to the AeroScout location engine. The solution is compatible with multiple WLAN architectures.

### MobileView Platform

The MobileView platform includes the AeroScout® Location Engine, the browser-based MobileView user interface for day-to-day procedures, and Instant Notifier for displaying alerts.

#### AeroScout Location Engine

This server software provides a simple, yet powerful means of tracking the location, status and condition of people and assets. It is capable of supporting tens of thousands of tags through a modular and scalable architecture with high availability and clustering capabilities. The solution can centrally manage dozens of distributed sites and supports enterprise databases.

#### MobileView

MobileView is a browser-based application for viewing and managing Hugs tags. Only task-critical information

is provided in an intuitive, visual format that includes a color-coded census list and facility maps. Different levels of password access ensure security while allowing staff members to perform their jobs efficiently. MobileView also enables administrators to manage user accounts, write custom procedures to guide staff during an alarm, and make other basic settings. A variety of reports of system activity can be viewed on screen and printed.

#### Instant Notifier

Instant Notifier provides an effective way to immediately notify users when an alarm occurs. Instant Notifier automatically pops-up a window that displays complete alarm details, a map showing the infant's location, and, optionally, images from the CCTV system. Instant Notifier also includes configurable message outputs, rules-based processing and optional audible alarms.

## Pedz Tag

The Pedz tag is a 217 MHz radio transceiver worn by infants and children to protect them from abduction or attempting to flee the facility on their own. The tag's very high frequency (VHF) transmitter sends supervisory and alarm messages to Receivers, which relay these messages to a Healthcare Platform Server for processing. As soon as the band is applied, the tag is automatically enrolled into the Pedz system.

The key features of the Pedz tag are:

- Tag and band are latex-free
- Offset band connection points creating a youthful, funky look
- Optional customization with "Tag Skins"
- Small, comfortable, single-patient use disposable band
- "Cut band" tamper protection against any attempt to remove the band without authorization
- Can not be readily removed from the patient without the use of the Removal Key. In particular, the tag can not be removed using paperclips, ordinary flat or cross-blade (Philips or Pozidriv) screwdrivers or penknives.
- Waterproof to a depth of 1m to permit washing and bathing
- Readily cleanable by simple mechanical means using a wide variety of hospital-approved cleaning solutions
- Robust plastic housing is suitable for use with a variety of hospital-approved cleaning solutions
- Tag and band tested for contact with skin, without irritation
- When applying the Pedz tag, a small light on the front of the Pedz tag flashes for approximately 14 seconds, indicating that the tag's battery is in good condition and that a successful connection has been established
- Automatic transmission of a radio frequency (RF) "check in" message approximately every 10 seconds
- Automatically enters "sleep mode" after tag has been in a tamper condition for more than 10 minutes
- Automatic low battery detection, through the receiver network
- Warranted one-year battery life



Pedz Tag Specifications	
Model	Pedz Tag
Part Number	806A7001
Frequency	217 MHz
Supply Voltage	3.0 VDC
Battery Life	Contains one non-replaceable battery (Model CR2032 or equivalent) with one year minimum battery life
Electrical Rating	Electrical rating: 3V, 220mAh
RF Transmission Rate	0.2 sec in alarm mode, 10 sec at other times (typical)
Temperature	32°F to 120°F (0°C to 49°C)
Humidity	0-85% RH @ 70°F (21°C), non-condensing
Dimensions	Approximately 1.12 x 1.50 x 0.48 in. (28 x 38 x 12 mm)
Weight	Approximately 0.42 oz. (12 g)
RF Output	0.3 μ watt
FCC and IC Compliant	Yes
Latex-Free and Biocompatibility tested	Yes

# Accessories

# Call Cord Solutions



## A Simple Solution.

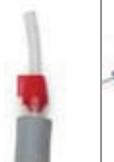
Call cords may be the simplest type of nurse call device, but they're often the best choice for areas without TVs, or for situations where a patient has special needs. Curbell's wide range of call cord options lets you handle any situation.



## Which type of call cord is right for you?

Curbell offers seven types of call cords to meet the needs of your facility and your patients. You can learn more about those options on the next five pages.

### Call Cord Options

							
	Gen4 Sealed Call Cord (page 16)	Classic Call Cord (page 17)	Breathcall® (page 18)	E-Z Call™ (page 18)	Mechanical Pad (page 19)	Padcall® (page 20)	Presscall® (page 20)
You need a simple nurse call device	●	●	●	●	●	●	●
You need the device to be oxygen Safe	●	●	●		●	●	●
Easy cleaning	●				●		
The patient has limited dexterity			●	●	●	●	●
The patient has limited mobility			●	●			
The device needs to control Nurse Call and TV			●				●
You would like an air-activated switch			●			●	●
Your nurse call system requires a normally closed switch		●	●	●		●	●

# Gen4® Sealed Call Cords



The Gen4 Sealed Call Cord brings the call cord into the 21st century, with its comfortable design, and industry-leading infection control and safety features.

## Infection Control

- ▣ Proprietary sealed design keeps infectious contaminants out of the pendant
- ▣ Smooth shape and minimal crevices allow for easy, comprehensive cleaning, and reduce the potential for cross-contamination

## Patient Satisfaction

- ▣ Modern, comfortable, ergonomic design fits naturally in the hand
- ▣ Large button is easy for patients to locate and operate
- ▣ Call assurance LEDs available for supporting systems

## Oxygen Safety

- ▣ UL Listing involves testing with the nurse call system to verify for safe use in an oxygen-enriched atmosphere (visit [www.oxygensafe.com](http://www.oxygensafe.com) for more information)

Plug Type	Nurse Call System	Description	Part Number	Price
1/4"	Universal	8 ft.	SCC-0101-080-N	\$16.95
1/4"	Universal	12 ft.	SCC-0101-120-N	\$18.95
18-pin	GE	8 ft.	SCC-3701-820-U	\$42.95
8-pin DIN	Jeron	8 ft.	SCC-1901-081-U	\$26.95
8-pin DIN	Jeron Provider 620	10 ft.	SCC-1901-103-U	\$27.95
8-pin DIN	Jeron Provider 680+	10 ft.	SCC-4201-101-U	\$29.95
8-pin DIN	Rauland	8 ft.	SCC-1901-080-U	\$26.95
9-pin	Rauland	10 ft.	SCC-4101-100-N	\$33.95
8-pin DIN	Tektone	8 ft.	SCC-1901-082-N	\$26.95
15-pin	SimplexGrinnell	8 ft.	SCC-2908	\$46.95
8-pin Modular	West-Com, Intego	8 ft.	SCC-2101-080-U	\$21.95

# Classic Call Cords

Our Classic Call Cords are designed to meet your facility's wiring requirements, and are safe for use in oxygen-enriched environments.

- ▶ Large contoured button is easy for patients to operate
- ▶ Button provides tactile feedback with an audible click
- ▶ Custom cable lengths available
- ▶ Switch rated for minimum of 30,000 cycles per UL 1069 section 24
- ▶ Electrostatic Discharge (ESD) resistant design
- ▶ Self-extinguishing pendant material



Plug Type	Nurse Call System	Description	Part Number	Price
 1/4"	Universal	12 ft.	CC144-010	\$16.95
 1/4"	Universal	12 ft., dual	CC144-090	\$36.95
 1/4"	Universal	16 ft., coiled	CC192-030	\$31.95
 1/4"	Universal	8 ft.	CC96-010	\$14.95
 1/4"	Universal	8 ft., coiled	CC96-210	\$23.95
 1/4"	Universal	8 ft., dual	CC96-180	\$32.95
 1/4"	Universal	8 ft., inline	CC96-045	\$14.95
 1/4"	Universal	8 ft., normally closed	CC96-020	\$14.95
 18-pin	GE	12 ft.	CC144-112	\$44.95
 8-pin DIN	Intercall	8 ft.	CC96-200	\$24.95
 8-pin DIN	Jeron	8 ft.	CC96-300	\$24.95
 8-pin DIN	Jeron Provider 620	8 ft.	CC96-315	\$25.95
 8-pin DIN	Rauland	8 ft.	CC96-750	\$24.95
 15-pin	SimplexGrinnell EZCare	8 ft.	CC96-983	\$46.95
 8-pin DIN	Tektone	8 ft.	CC96-970	\$24.95
 8-pin Modular	West-Com, Intego	8 ft.	CC96-080	\$19.95
 9-pin	Zettler Sentinel 400	8 ft.	CC96-347	\$30.95
 9-pin	Zettler Sentinel 500	8 ft., normally closed	CC96-740	\$30.95
 6-pin	Zettler Zetcom	8 ft.	CC96-050	\$32.95

# Specialty Call Cords

Our Specialty Call Cords offer ease of use and comfort to those with special needs. They have ultra-sensitive touch surfaces that are ideal for patients with limited manual dexterity, and they can be used with most nurse call systems. Curbell offers five types of single and dual function Specialty Call Cords.

## Breathcall®

- ▶ Pneumatic device activated by the patient's breath
- ▶ Single and dual models available
- ▶ For patients with special needs (severe burns, paraplegics, quadriplegics, immobilized patients)
- ▶ Adjustable clamp fits side rail or headboard
- ▶ Arm can be adjusted to almost any position
- ▶ Additional straws and filters available



GEB-200

Plug Type	Nurse Call System	Description	Part Number	Price
 1/4" plug	Universal	9'	GEB-010	\$118.95
 8-pin DIN	Rauland	9'	GEB-150	\$155.95
 9-pin	Zettler Sentinel 500	9', normally closed	GEB-195	\$159.95
 two 1/4" plugs	Universal	9', Dual (TV, Nurse)	GEB-200	\$199.95
NA	NA	12 Straws/Gray Filters	GEB-290	\$29.95
NA	NA	12 Straws/Red Filters	GEB-300	\$29.95

## E-Z Call™

- ▶ Can be placed anywhere for activation including the cheek, foot, hand, etc.
- ▶ Large tented design makes it easy for patient to see
- ▶ Linen clip securely attaches to bedding
- ▶ Velcro strip included for side rail mounting



Plug Type	Nurse Call System	Description	Part Number	Price
 1/4" plug	Universal	10'	GEE-010	\$59.95
 1/4" plug	Universal	10', normally closed	GEE-090	\$62.95



## Mechanical Pad

- Perfect for patients who may have difficulty using standard call cords or pillow speakers
- Large sensitive surface area
- Activates from any point on the pad's surface
- Linen clip securely attaches to bedding



	Plug Type	Nurse Call System	Description	Part Number	Price
	1/4" plug	Universal	10'	GEM-0000-AGY	\$43.95
	15-pin	SimplexGrinnell EZCare	10'	GEM-478	\$49.95
	18-pin	GE/Dukane	10'	GEM-477	\$48.95
	20-pin	Sylvania	10'	GEM-472	\$48.95
	37-pin	Universal	10'	GEM-150	\$57.95
	6-pin	Zettler Zetcom	10'	GEM-479	\$61.95
	8-pin DIN	Jeron	8'	GEM-180	\$47.95
	8-pin DIN	Rauland	8'	GEM-18	\$47.95
	8-pin DIN	Jeron Provider 620	8'	GEM-240	\$47.95
	8-pin DIN	Intercall	10'	GEM-300	\$47.95
	8-pin DIN	TekTone	10'	GEM-476	\$47.95
	8-pin Modular	West-Com, Intego, TekTone	10'	GEM-471	\$47.95
	9-pin	Zettler Sentinel 400	10'	GEM-160	\$59.95

## Padcall®

- Large call surface (3" diameter)
- Sensitive, air-activated switch
- Gripper feet hold pendant in place
- Linen clip securely attaches to bedding
- Custom lengths available



Plug Type	Nurse Call System	Description	Part Number	Price
 1/4" plug	Universal	8'	GEA-030	\$47.95
 15-pin	SimplexGrinnell EZCare	8'	GEA-360	\$136.95
 9-pin	Zettler Sentinel 500	8', normally closed	GEA-195	\$85.95
 8-pin Modular	Intego/West-Com	8'	GEA-145	\$69.95
 8-pin DIN	Intercall	8'	GEA-138	\$69.95
 8-pin DIN	Jeron	8'	GEA-135	\$69.95
 8-pin DIN	Jeron Provider 620	8'	GEA-135R	\$71.95
 8-pin DIN	Rauland	8'	GEA-130	\$69.95
 8-pin DIN	TekTone	8'	GEA-139	\$69.95

## Presscall®

- Air activated
- Fits comfortably in patient's palm
- Available in dual and single styles
- Linen clip securely attaches to bedding
- Custom lengths available



Plug Type	Nurse Call System	Description	Part Number	Price
 1/4" plug	Universal	8'	GEP-140	\$36.95
 1/4" plug	Universal	8', Dual TV, Nurse	GEP-300	\$113.95
 15-pin	SimplexGrinnell EZCare	8'	GEP-670	\$129.95
 8-pin DIN	Intercall	12'	GEP-262	\$64.95
 8-pin DIN	Jeron	8'	GEP-265	\$58.95
 8-pin DIN	Jeron Provider 620	10'	GEP-395	\$64.95
 8-pin DIN	Rauland	8'	GEP-260	\$58.95
 8-pin DIN	TekTone	8'	GEP-660	\$58.95
 8-pin Modular	West-Com, Intego, TekTone	8'	GEP-310	\$58.95

In hospital rooms around the world, patients are dealing with demands on their health, and staff members are dealing with demands on their time. Curbell Medical is at the center of it all, with product lines that have set the standard for hospital room integration, connecting the systems that are focused on the patient.

For more than 50 years, we have made sure that patients can expect the best possible experience. And our people make sure that our customers can expect the same. Just like our products, our people make solving complicated problems look easy, bringing decades of experience to partnerships that are built for the long haul.

From the critical signals delivered through our innovative nurse call accessories to our comprehensive healthcare bed and patient monitoring lines, Curbell has revolutionized the way patients, nurses and technologies communicate with one another.

Whether it's a visionary product or a tried-and-true relationship, there's integrity in everything that Curbell Medical does.

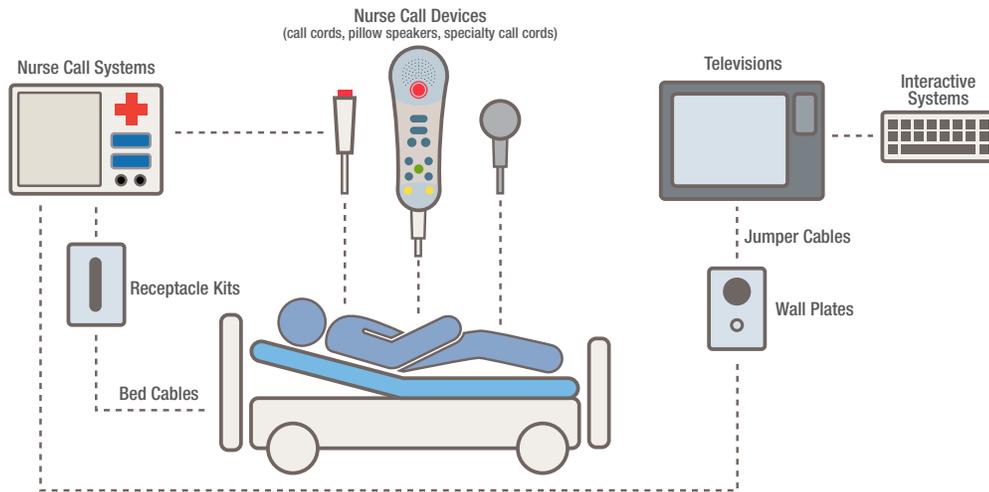


- |                                   |                         |                               |
|-----------------------------------|-------------------------|-------------------------------|
| 1 Pillow Speakers                 | 8 Casters               | 15 Hospital-Grade Power Cords |
| 2 Low Voltage Light Controllers   | 9 Bed Motors and Repair | 16 Bed Controls               |
| 3 Nurse Call Adaptors             | 10 Side Rails           | 17 Call Cords                 |
| 4 Receptacle Kits and Wall Plates | 11 Footboards           | 18 Wheelchair Brakes          |
| 5 Dummy Plugs                     | 12 PC Boards and Repair | 19 Fall Management Monitors   |
| 6 Headboards                      | 13 SPO2 Probes          | 20 Jumper Cables              |
| 7 Bed Communication Cables        | 14 ECG Cables and Leads | 21 Wall Plates                |

# Customized Solutions

Among the dozens of nurse call systems, televisions, interactive systems, and beds available, there are tens of thousands of configurations possible in any hospital room. Once you add in lighting options, wiring inconsistencies, and additional special features, it's easy to see that designing and specifying the products that enable communication between these systems requires a lot of expertise.

Curbell Medical works closely with all the manufacturers of these systems to make sure that our products operate properly, and our knowledgeable staff can quickly help you select the right products to meet your specific requirements. You can count on Curbell to keep you connected.



# Oxygen Safety and Compliance Testing

The health care industry has initiated important changes to the regulations associated with UL compliance and oxygen safety that impact nurse call accessories. Curbell has invested a great deal of time and resources to ensure that the nurse call accessories we manufacture continue to meet not only oxygen safety standards, but all other applicable compliance standards.

Nearly all of Curbell's Nurse Call accessories are UL Listed and all are tested directly with the intended nurse call systems and health care televisions to ensure the highest level of safety and regulatory compliance. We are also certified to ISO 9001:2000 and ISO 13485:2003 (CMDCAS).

For more information on oxygen safety, visit [www.oxygensafe.com](http://www.oxygensafe.com).



# Gen4<sup>®</sup> Pillow Speakers



## A New Way of Thinking.

When we started designing the Gen4 pillow speaker line, we wanted it to not only be a new platform for the future, but a new way of thinking. Using 50 years of experience designing and manufacturing the most popular pillow speakers in the world as our guide, we started from the ground up, combining the best features of our previous pillow speakers, suggestions from customers, and new materials and techniques to make Gen4 a step ahead of anything else in the nurse call industry today.

## Infection Control

Healthcare-Associated Infections are a costly problem, and hospitals are increasing their focus on ways to prevent them. Since pillow speakers are continuously touched by patients, family, and staff, it's easy to see how they can be part of the problem.

Gen4 was thoughtfully designed with this in mind. Its smooth shape allows for quick and easy cleaning, and its sealed design reduces the potential of infectious fluids or solids settling into the unit where they could be passed from patient to patient. Gen4 has been tested with popular hospital cleaning solutions and resists degradation and discoloration.



Gen4's sealed design reduces the potential of infectious fluids or solids settling into the unit.

## Durability

Gen4 pillow speakers are built to last using high quality components and design:

- ▶ Flame resistant ABS/polycarbonate case material withstands 100 drops from four feet onto a concrete floor and has a UL-94 rating of V-0
- ▶ Gen4's cable flex relief is designed for longer life and greater flexibility.
- ▶ Internal cable strain relief prevents damage to internal components.
- ▶ ESD Resistant Design per UL-1069 and IEC 61000-4-2



Gen4's flex relief is designed for longer life and greater flexibility.

## Repairability

No matter how well they're built, pillow speakers occasionally get damaged. They get dropped, run over by beds, and generally mistreated. We made sure that Gen4 was easy to repair in the field (see page 70 for a complete list of replacement parts). If you don't have the time to do the repairs yourself, let the Curbell team troubleshoot and repair your pillow speakers.



Gen4 is easy to repair.



**Sealed Design**  
The sealed design reduces the potential risk of infectious fluids or solids settling into the unit.

**Large Buttons**  
Gen4's large buttons are recognizable at a glance and easy to press. The simplified layout makes contacting the Nurse and controlling TV functions simple.

**User-Friendly Button Layout**  
Intuitive, standardized button positioning makes operation easy. Mute, Closed-Captioning, Sleep, and Option are standard on all models.

**Auxiliary Functions**  
The Gen4 platform allows for up to six auxiliary buttons to control lighting, temperature, drapes, nurse call features, etc.

**Superior Sound**  
Clear, high quality sound increases patient satisfaction.

**Volume Control Options**  
All models come standard with digital volume controls, and are available with analog volume.

**Easy-To-Clean Case**  
The streamlined design facilitates quick and easy cleaning.

**Reprogrammable for Different TVs**  
Gen4 Pillow Speakers can be quickly reprogrammed for different TVs.

**Access all Available Channels**  
Capable of accessing digital sub-channels

**Comfort-Grip Case**  
Gen4's lightweight case was designed to mimic the comfort and familiarity of a home remote.

**Flex and Strain Relief**  
Gen4's long flex relief was designed for longer life and greater flexibility. The smooth design facilitates easy cleaning, and internal strain relief prevents damage to internal components.

**Repairable**  
You can utilize Curbell's repair service or choose to make basic repairs yourself.



**Gen4 Pillow Speaker Holder**  
The optional Pillow Speaker Holder mounts to the wall or headwall and keeps Gen4 Pillow Speakers secure. See page 70.

# Gen4® Pillow Speaker Solutions

## DirectAccess® or DPS®

All Gen4 pillow speakers are available in two main styles:

- **DirectAccess** (our most popular model): the user can directly access individual channels through the numeric keypad
- **DPS**: the user cycles through channels using the large channel up and down buttons



### Headphone Jack

Ideal for creating a quieter environment for patient rooms. Works with both stereo and mono headphones



### Analog Volume Control

This option is ideal for situations where two pillow speakers need to control one TV.

## Headphones

- Help lower noise levels
- Single use, disposable
- Lightweight and comfortable

Description	Part Number	Price
Black stereo headphones	HP-030	\$2.75
Black mono headphones	HP-050	\$2.75



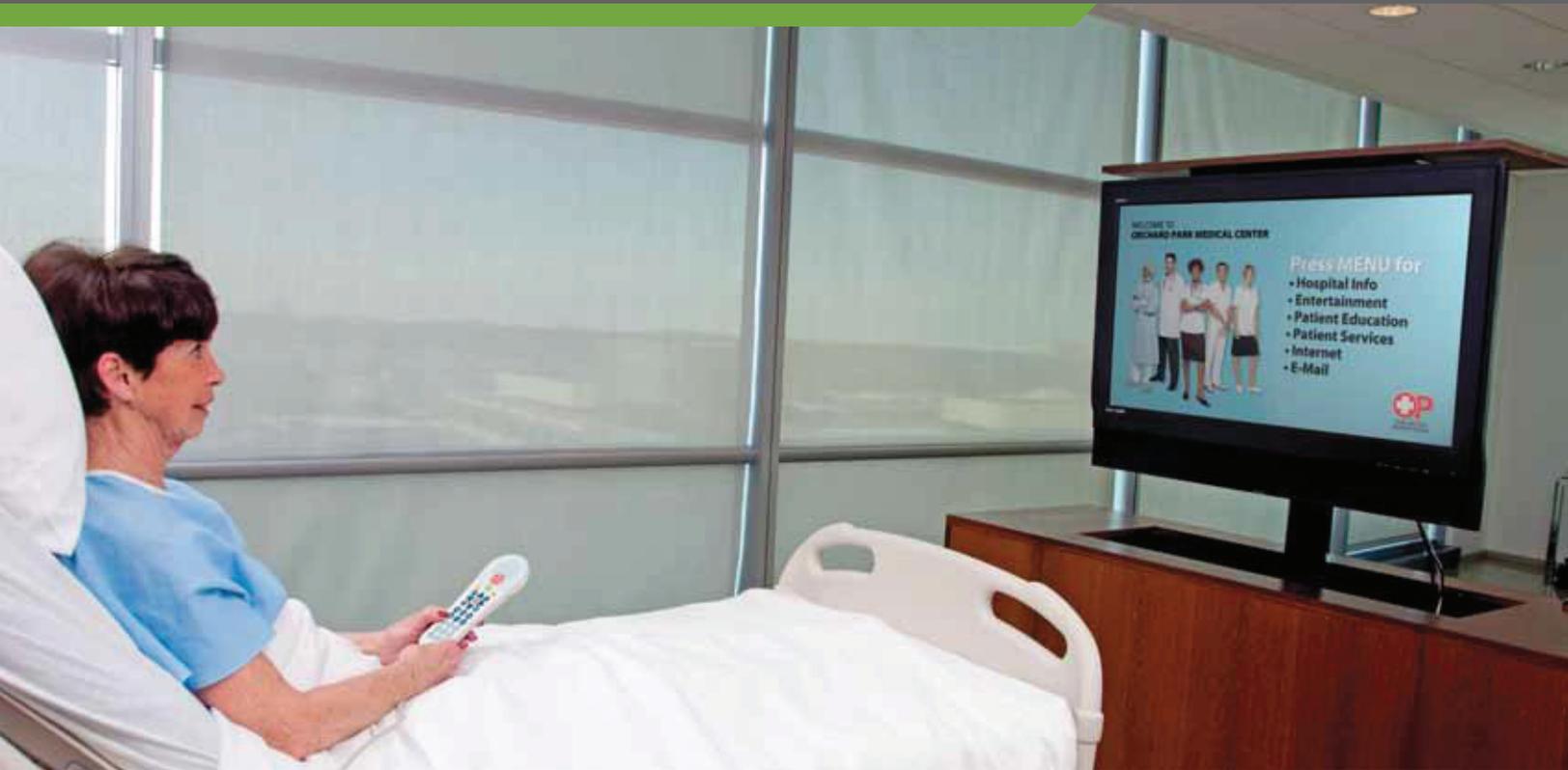
## Breakaway Connection

Save time and money, and minimize plug and station damage from everyday wear with the pillow speaker breakaway solution from Curbell. The "pinless" cable plug fits into a mating cable that is secured to a dedicated wall receptacle. It provides a reliable connection that releases with a determined amount of force, taking the strain off the wall connection.

- Reduces damage to pillow speaker plug end
- Eliminates damage to nurse call patient stations
- Provides a means to standardize pillow speakers in your facility



# Gen4<sup>®</sup> Interactive Pillow Speakers



Curbell works with interactive system manufacturers to create Gen4 Pillow Speakers that are designed specifically for each system. Each pillow speaker gives you the features of our standard Gen4 Pillow Speaker, plus the ability to access features on the interactive system. Contact Curbell or your interactive company for more information.



 The units shown here represent a small sample of the interactive pillow speakers available from Curbell.



Aceso



Allen Technologies



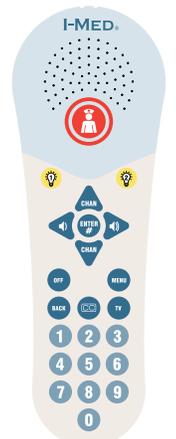
Cerner®



GetWellNetwork®



HCI



iMed™



Lodgenet®



Magnet Health



PDi®



Skylight® Healthcare Systems



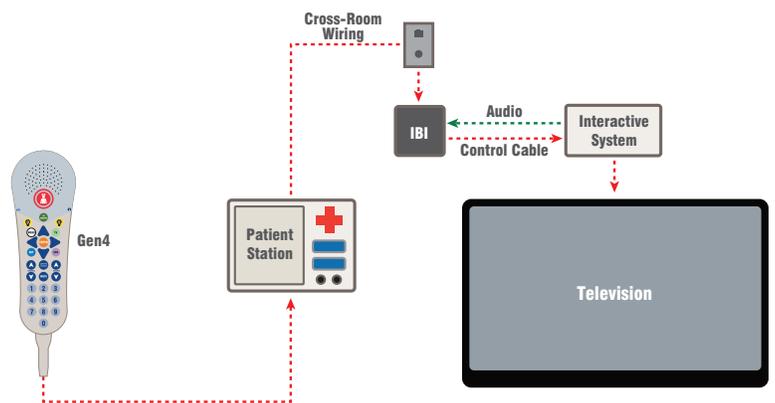
TeleHealth Services®



TVR Communications

## Digital Interface Box (IBI)

Pillow speakers no longer communicate only with standard televisions. Today's technology presents ever-increasing demands for various additional integrations. The Curbell IBI has many potential applications, including the facilitation of an interface between pillow speakers and USB- or IP-driven hardware. The box is FCC-compliant and carries a UL Listing to hospital standards. Please contact Curbell with your customized application needs.



# Gen III Pillow Speakers and Pendants

Curbell's Gen III Pillow Speakers are in use in thousands of hospitals around the country. They offer a durable design, simple, easy-to-use features, and compatibility with all common nurse call systems. Gen III Pillow Speakers are available in both digital and analog versions.



## Analog Pillow Speakers

The GEN III Analog Pillow Speaker offers basic nurse call and TV capabilities for facilities with a small number of available channels.

## Digital Pillow Speakers

The Gen III DPS® Digital Pillow Speaker provides convenient access to the many channels available from cable or satellite TV services.

## DirectAccess Pillow Speakers

The Gen III DirectAccess pillow speaker is the perfect choice for facilities that offer many cable or satellite TV channels as it allows a specific channel to be selected without having to cycle through all available channels.

## Handheld Pendants

Curbell's handheld nurse call pendants are perfect for areas where a speaker isn't necessary, such as areas with swing-arm televisions, or emergency rooms and intensive care units that don't have televisions.



	Gen III DirectAccess	Gen III Digital	Gen III Analog	Handheld Pendant
Colorful, easy-to-identify buttons	●	●	●	●
Oversized buttons		●	●	●
Nurse call function comes standard with Braille	●	●	●	
Closed Caption button on all models	●	●		
Mute button on all models	●			
Previous Channel button on all models	●			
Support for up to four auxiliary functions	●		●	
Headphone jack available	●	●	●	
Sealed overlay	●	●	●	●
Strain relief provided on all connections	●	●	●	●
Two-year limited warranty	●	●	●	●
Safe for use in oxygen-enriched environments	●	●	●	●
Electrostatic Discharge (ESD) resistant design	●	●	●	●
Self-extinguishing case material	●	●	●	●
Configured to use existing patient room wiring	●	●	●	●
Can be customized for your facility	●	●	●	●
Plug and play operation	●	●	●	●
Simple to cycle up and down through channels	●	●		
Numeric keypad for direct access to specific TV channels	●			
TV button is used to cycle through channels			●	
Streamlined, slimmer case design	●			
Polycarbonate ABS case material	●	●	●	●
Splash-proof	●			



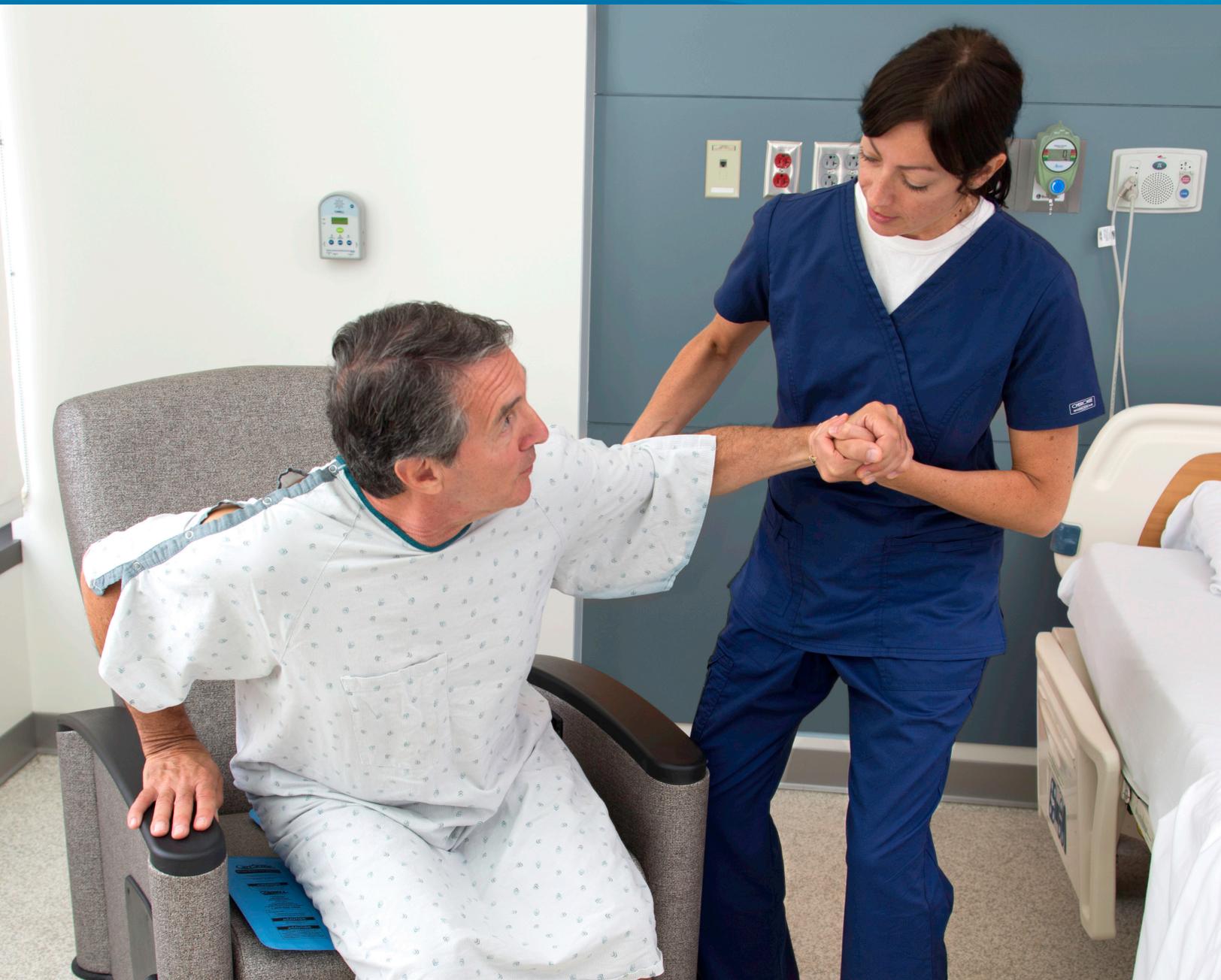
Curbell's fall management systems can help make costly "never events" a thing of the past.

UP TO  
**1,000,000**  
HOSPITAL PATIENTS  
FALL EACH YEAR<sup>1</sup>

UP TO  
**30%**  
OF THOSE FALLS  
RESULT IN AN INJURY<sup>1</sup>

HOSPITALS PAY  
**\$27,000**  
ON AVERAGE FOR A FALL  
WITH A SERIOUS INJURY<sup>2</sup>

Curbell's full line of fall management monitors and sensors makes it easy to achieve your fall reduction goals and minimize injuries. They're simple for your staff to use and full of features to make it easier to provide your patients a safer, more comfortable environment.



# GO CORDLESS



Our BC400 cordless fall management monitor and cordless sensor pads bring patient safety to a new level, eliminating tripping hazards and cord damage while giving your staff flexibility in mounting the monitor and reducing alarm fatigue.

# CORDLESS ADVANTAGES

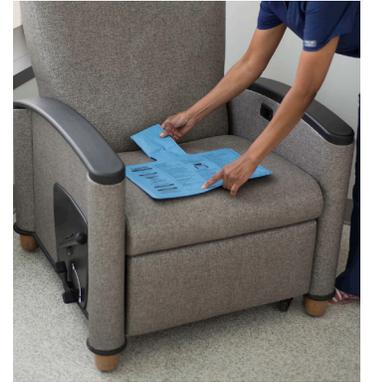
## ELIMINATE TRIPPING HAZARDS AND CORD DAMAGE

If you have patients who are prone to tripping over cables, you know the risks of such a situation. By eliminating the cords between the monitor and sensor, there's one less thing to trip over.



## CONNECT TWO PADS TO ONE MONITOR

Unique to the BC400 cordless monitor is the ability to connect two sensors pads at the same time. This lets you move a patient around without having to move or reconnect a sensor pad.



## MOUNT THE MONITOR WHERE IT'S CONVENIENT

The BC400 can be mounted up to 30 feet away from the sensor — either just out of reach of the patient, or out in the hall for easier access. Bright LEDs on both sides of the monitor give your staff additional visual notification of an alarm.



## REDUCE NOISE AND ALARM FATIGUE

The constant sound of alarms can be annoying to patients and staff. When the BC400 is connected to the nurse call system, you can turn the volume completely off, helping to improve the patient environment and minimize alarm fatigue.



# ADDITIONAL FEATURES

## NURSE CALL CONNECTIVITY



Curbell is an industry leader in nurse call system integration, and we use this expertise to make sure that our equipment properly interfaces with your nurse call system, no matter what kind it is.

## MOUNTING OPTIONS



A clip on our monitors allows them to be mounted onto the back of a wheelchair, or into an optional mounting bracket. A Velcro loop is supplied to hang them from a wheelchair or bed rail.

## BRIGHT LEDS



All our monitors clearly show you when they're in use, and when the alarm is going off. You'll also be notified when to replace the batteries and the sensor pad (when using timed sensor pads).

## LONG BATTERY LIFE



All our monitors are powered by four AA alkaline batteries, which will last up to an industry-leading four months. Battery life can be extended further with an optional AC adaptor.

# GOING CORDLESS IS SIMPLE

[1]

[2]

[3]



Press and hold the black programming button on the back of the monitor until the monitor beeps three times and the LCD screen displays "PROGRAM MODE".



Firmly place pressure on the pad and then release. A long beep from the monitor will indicate it has been synchronized with the pad.



Position the sensor pad for the patient on the chair or bed.

# FALL MANAGEMENT SOLUTIONS

Each one of your patients is unique. They each have different capabilities and require different levels of care and attention. We designed our line of fall management systems to provide a high level of flexibility with numerous monitor and sensor options so you can create a customized solution that's best for each patient.

## MONITORS

### BC100 Standard Bed and Chair Monitor

A simple solution for patients who need continual monitoring.

### BC201 Advanced Bed and Chair Monitor

This monitor features a delay control that helps prevent false alarms, a call cord connection, and a reset button.

### BC400 Cordless Bed and Chair Monitor

Connect up to two sensors pads simultaneously while eliminating tripping hazards and cord damage.



## SENSOR PADS

To meet the needs of different patients and situations, Curbell's sensors are available in a variety of sizes and styles.

- ▶ Larger pad sizes provide more surface area for monitoring restless patients, thus reducing nuisance alarms.
- ▶ Smaller pad sizes allow for more immediate alarm notification if the patient shifts out of normal position.
- ▶ Pads come in different usable lifespans from short-term single use to long-term reusable
- ▶ Corded and cordless options



## OTHER SENSORS

Get the most out of your fall management system by utilizing additional types of sensors:

- ▶ Seatbelt sensors
- ▶ Floor mat and floor cushion sensors
- ▶ Toilet seat sensors



Curbell has been supplying the healthcare industry since 1960. In the years since Curbell started making the pillow speakers we're best known for, we have become a trusted partner for every major Nurse Call system manufacturer and an industry leader in patient room connectivity. Our experience is what our business is built on, and it's the reason that healthcare facilities across the country trust Curbell for a variety of products and solutions for the patient room.

# SENSORS

## BED AND CHAIR SENSOR PADS

To meet the needs of different patients and situations, Curbell's sensor pads are available in a variety of sizes and styles.

- ▶ Larger pad sizes provide more surface area for monitoring restless patients, thus reducing nuisance alarms
- ▶ Smaller pad sizes allow for more immediate alarm notification if the patient shifts out of normal position
- ▶ Three usable lifespans:
  - 14 and 30 day pads (white: suitable for hospital patients)
  - One year pads (blue: for long-term patients)
- ▶ Two styles: Corded, and Corded Timed



**CORDED**

Corded pads are a good choice when you need a simple sensor for your monitors. The breakaway cable allows connectors to separate under strain to minimize cord and monitor damage.



**TIMED**

An internal clock counts down the life of the pad based on actual use (i.e. when the pad is plugged in and pressure is applied to the pad), allowing you to extend the usable period of the pad. The monitor will notify you when to replace the pad.

Lifespan	Pad Style	7" x 15" Chair Pads	10" x 15" Chair Pads	4" x 30" Bed Pads	10" x 30" Bed Pads	20" x 30" Bed Pads
14 Day	Corded (white)	CSP-C14-NC7 (10 pack)	—	CSP-B14-NC4 (10 pack)	—	—
30 Day	Corded (white)	—	CSP-C30-NC10 (10 pack)	CSP-B30-NC4 (10 pack)	—	—
One year	Corded (blue)	—	CSP-C365-NC10	CSP-B365-NC4	CSP-B365-NC10	—
One year	Corded Timed (blue)	—	CSP-C365-TC10	—	CSP-B365-TC10	CSP-B365-TC20



### CSP-TS-1 TOILET SEAT SENSOR

The Toilet Seat Sensor mounts discreetly underneath the toilet seat so that a patient can be monitored without a loss of privacy.



### CS-SB2054V SEAT BELT SENSOR

The Seat Belt Sensor features a Velcro® fastener. In addition to setting off an alarm when unfastened, it also helps keep the patient from sliding down the chair.



### CS-FMS-C2448 FLOOR MAT SENSOR

The 24" x 48" Floor Mat Sensor can alert staff if a patient attempts to stand or walk.



### CS-FCS-C3668 FLOOR CUSHION SENSOR

The 36" x 68" Floor Cushion Sensor provides extra protection with 2" of padding in case the patient falls while attempting to stand or walk.

# ACCESSORIES

Model	Description	Model Number
Bed Mounting Bracket	Adjustable to fit 7/8" to 2 5/8" width headboards and footboards	CSM-BMB
Magnetic Mounting Bracket	Mounts to standard metal door jambs	CSM-MMB
Wall Mounting Bracket	Mounts to the wall with screws or Velcro strips	CSM-WMB
Velcro Strap	Replacement for any monitor	CSM-VS
Override Key	Replacement key for tamper-resistant mode	CSM-KEY
Classic Call Cord	This 8' call cord plugs into the monitor to give the user the ability to call the nurse	CC96-010
Replacement Bed Pad Breakaway Cable	80" Breakaway Cable for 30 day and one-year corded bed pads	CSP-BCR
Replacement Chair Pad Breakaway Cable	34" Breakaway Cable for 30 day and one-year corded bed pads	CSP-CCR