REAL-TIME LOCATING SYSTEM

RTLS Hardware
Accurate data and real-time intelligence by design

Data. It's what everyone is talking about, with good reason: it's the key to improvement. Each day, health systems miss opportunities to collect data for improving operations and patient care.

With Midmark RTLS (real-time locating system), you can automatically collect valuable data to fuel improvement in your organization. Midmark RTLS badges, tags and sensory networks are designed to work in the background, communicating locations of people and equipment—accurately, automatically, all the time. With RTLS, better care is within reach.

This is the future of healthcare. Are you ready?
How does RTLS work?

A real-time locating system (RTLS) gives you a bird’s-eye view of patients, colleagues and equipment in your health system. Using badges (worn by people), tags (affixed to equipment), sensors (placed in the ceiling throughout the facility) as well as sophisticated software, Midmark RTLS gathers location data and turns it into actionable insight for better workflow.

**PATIENT + STAFF BADGES**
Patients and staff wear badges that emit infrared (IR) and radio-frequency (RF) signals, communicating real-time location to ceiling-mounted sensors.

**SENSORY NETWORK**
Wired or wireless sensors throughout the facility receive badge and tag signals and communicate location data to the software.

**ASSET TAGS**
Just like badges, but for mobile equipment (e.g., IV pumps, ECGs, wheelchairs, etc.). Midmark RTLS Asset Tags offer precise IR or general Wi-Fi locating.

**SOFTWARE SOLUTIONS**
Location data, as well as workflow prompts, are visually displayed on workstation computers or large screen displays in common areas, keeping care teams in sync.
Our Clearview Badge sets the standard for durability and accuracy. With superior battery life and a functional, easy-to-wear design, Clearview stands the test of time.

**Precise Locating, Long Life**
Superior battery life sets Clearview apart. Powered by lithium coin cell batteries, Clearview battery life lasts up to two years, with IR wavelength of 875 nm/455 kHz and RF frequency of 433.92 MHz.

**A Durable, Compact Design**
Clearview is easy-to-wear and non-invasive. It’s compact (1.65”W x 0.55”D x 2.44”H) and lightweight (1.06 oz, battery included). The badge button is programmable, typically used to call for assistance.

**Multiple Color Choices**
Choose the color that matches your facility, or creatively color code badges based on staff roles. The possibilities are endless. Clearview comes in White, Red, Blue, Yellow and Green. Custom options also available.

**Four Wearable Options**
Clearview Mini can be worn on the wrist using our silicone accessory (sold separately), a hospital wrist band, or on the lapel using the included clothing clip or our silicone accessory (sold separately).

**Your Choice of Configuration**
For Staff Assist or other assistance options, Clearview Mini is available with an optional button. Silicone accessories come in White, Charcoal Gray, Pink and Blue.

**Superior Battery Life to Disposable Badges**
Compared to disposable badge options on the market, Clearview Mini boasts three times the battery life (90 days)—unparalleled accuracy at a fraction of the cost.

Looking for more wearable options? Clearview Mini is our most versatile badge: same IR/RF technology as the Clearview, with four wearable options. Clearview Mini is best suited for patient flow applications in outpatient clinic and acute care settings.
“With Midmark RTLS, we receive very accurate location reports, down to the room level, without spending time and resources monitoring and recalibrating the RTLS.”

Stephanie Middleton
Manager of Information Technology
Sentara Healthcare
Finding equipment for patient care and preventive maintenance has never been easier than with our RTLS Asset Tags, powered by Midmark RTLS Asset Tracking + Management.

**Asset Tags**

**ASSET TAG**

A reliable IR RTLS tag for room-level (or better) accuracy. IR Wavelength of 875 nm/455 kHz, and RF Frequency of 433 MHz. Exceptional battery life of up to 2 years. Dimensions: 1.38”W x 0.56”D x 2.41”H.

**MINI ASSET TAG**

Same locating technology and precision in a smaller size. Exceptional battery life of up to 2 years, depending on time in motion. Dimensions: 1.25”W x 0.73”D x 1.75”H.

**EQUIPMENT TO TAG**

Asset tags can be used on mobile assets, such as:

- IV Pumps
- ECGs
- Case Carts
- Wound Carts
- Stocking Carts
- Rapid Response Carts
- Wheelchairs
- Vain Finders
- Tonometer Devices
- Mobile Radiology Equipment
- Ultrasound Machines
- Wound Vacs
- Sequential Compression Devices

Leverage your Cisco® Wi-Fi network for enterprise visibility. The Wi-Fi Asset Tag combines IR and Wi-Fi RTLS for hospital-wide visibility, plus precision where you need it.

**Wi-Fi Asset Tags**

**BENEFITS OF WI-FI LOCATING**

Use your existing Wi-Fi network to get RTLS up and running. Wi-Fi RTLS is the fastest, easiest option to implement. Zone-level location information provided by Wi-Fi is a great foundation for campus-wide equipment visibility.

**A POWERFUL COMBINATION OF TECHNOLOGIES**

Our Wi-Fi Asset Tag emits an IR Wavelength of 875 nm/455 kHz, as well as CCX signals at a frequency of 802.11 (2.4 GHz), which provide general location of equipment via your facility’s Cisco® Mobility Services Engine (MSE) or Cisco® Mobile Experiences (CMX) environment. Your facility must have either Cisco® MSE or CMX installed and configured for Locating Services to implement Wi-Fi RTLS.
Our 12th generation Wired Sensory Network provides the highest level of precision using small, discreet IR and RF sensors. Once installed, little to no maintenance is required. Perfect for new builds, the Wired Sensory Network has the lowest total cost of ownership of any RTLS on the market.

Our discreet IR Sensors (2.75”W x 1”D) receive badge and tag signals to create room-, bed- or chair-level locations as small as 2 feet. Sensor Plus includes a USB port to power Bluetooth Low Energy (BLE) beacons.

Wireless Sensors receive IR signals from badges and tags to create locations as small as 3 feet, allowing precision down to the chair level. Wireless Sensors are battery operated, easy to install and roughly the size of a smoke detector: 6”W x 2.63”D x 5”H.

Wireless Sensors

Looking to get your RTLS up and running sooner, rather than later? Our battery-powered Wireless Sensory Network is easy and inexpensive to install, and is a perfect choice for existing environments. You can even add wireless sensors to a wired network for quick expansion.

Wireless Sensory Network

Collector + Concentrator

The Concentrator (shown with punchdown block) and Collector (both 5.25”W x 1.625”D x 5.5”H) are the backbone of the RTLS sensory network. Concentrators receive data from up to four Collectors, which receive data from up to 24 sensors.

Link Module

The Link Module is the data conduit for the Wireless Sensory Network, receiving sensor data and passing it to the Gateway. It also acts as an RF sensor. At 2.23”W x 1.52”D x 1.52”H, Link Modules are compact and plug into AC wall outlets for easy installation.

Gateway

The Gateway receives all IR and RF data from the Link Modules. It aggregates location data, and then sends it via Ethernet to the Midmark RTLS server for distribution to workstation computers. Gateway size is 6.25”W x 2.25”D x 4.95”H.
Enhance your RTLS investment and equip your facility or health system with these additional Midmark RTLS accessories.

**ADA BADEGE STORAGE CABINET**
Place badges in a “non-active” zone and preserve battery life. Our Badge Storage Cabinet meets Americans with Disabilities Act (ADA) standards for accessible design. Available in wired and wireless configurations.

**ADA BADGE DROP BOX**
Make returning badges easy with our ADA-compliant Badge Drop Box, which updates Midmark RTLS software and automates many aspects of the patient discharge process. Available in wired and wireless configurations.

**FOCUS KIT**
Looking to focus your sensors for increased precision? Our inexpensive Focus Kits easily configure Wired and Wireless Sensors to achieve bed- and chair-level granularity.

**RACK MOUNT SYSTEM**
Integrate your Midmark RTLS Wired Sensory Network with your existing rack mount architecture using our Rack Mount System for Collectors and Concentrators.

**REMOTE STATION**
The Remote Station is a small, wireless RF device that can be mounted on a wall or other surface to send a preprogrammed response (e.g., identify room status as clean/dirty, call for vital signs, call for staff assist).

**BADGE TESTER**
Check the status of badges or tags using our hand-held Badge Tester. The LCD screen shows a reading of badge/tag ID number, battery state, IR signal type, motion state and alarm state.

Create a seamless healthcare ecosystem by integrating Midmark RTLS with your EMR, CMMS and other systems. Midmark RTLS provides an open architecture for seamless system integration.

**ELECTRONIC MEDICAL RECORDS (EMR)**
Integrate with virtually any EMR, including Epic® and Cerner®. A bi-directional RTLS-EMR integration facilitates data flow from the RTLS to the EMR, reducing manual data entry.

**PATIENT ENGAGEMENT**
Create a positive, interactive care experience by providing location data to patient engagement systems. As a provider enters the patient room, their credentials are displayed on the TV to inform and put the patient at ease.

**CMMS/EAM SYSTEMS**
Add location data to your computerized maintenance management system (CMMS) or enterprise asset management (EAM) system by integrating with Midmark RTLS.

**TEMPERATURE MONITORING**
Integrate with your environmental monitoring system to view temperature monitoring data along with Midmark RTLS data in the Enterprise View interface.

**NURSE CALL**
Give time back to nurses by automating your nurse call system with location data. Midmark RTLS integrates with virtually every nurse call system, saving time and lightening nurse workload.

**ALARMS MANAGEMENT + MESSAGING**
Send notifications from Midmark RTLS directly to mobile phones and other devices. You can also suppress notifications based on location to reduce noise and alarm fatigue.
Midmark RTLS is an ISO 9001 Certified Company.
For more information or a demonstration, contact 1-800-MIDMARK,
call Midmark RTLS directly at 1-877-983-7787 or visit our website at midmark.com.

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