

CALLVISION®

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CALLVISION MOTHER AND BABY TRACKING SYSTEM

Mother and Baby Tracking System is a system designed to prevent newborn babies from being mixed up or abducted from the hospital. The system works with wireless communication technology.

After the birth, the authorized health staff register the information of mother and baby to the bracelets by the CALLVISION Cradle Device. Then, the staff wear the bracelets on the mother and the baby, and then match and activate the bracelets by touching to the bracelets with her own CALLVISION Smart Badge. Later, the baby is taken to the newborn unit.

After the baby's procedures are finished, he is taken back to the mother. Mother and baby bracelets are touched to each other. If there is a confusion, the bracelets give a warning because they are not paired. In this way, confusion event is prevented.

In order to prevent baby abduction, first the safe area borders (for example: 2nd Floor Gynecology and Obstetrics department) are determined in the system. If the baby is removed from this safe area without permission, the system warns the necessary units.

With instant location tracking, it guides the security to the most accurate point. In addition, all automatic doors are locked in the direction of the baby's abduction and abduction is prevented. If the bracelet is removed from the baby's feet, this system will detect it and the system will warn of kidnapping.

Mother and Baby Bracelets, which are very light and portable, are charged with a wireless charging system. The tracking capsule, in which electronic equipment is stored, has a liquid proof structure. The cord which is carrying the tracking capsule is made of anti-bacterial material. Optionally, it can be disposable or reusable with its structure suitable for sterilization.

SYSTEM UNITS

- Mother's bracelet
- Baby bracelet
- Smart Badge
- RF Location Scanner
- C4S software - Command Control Communication and Code System
- Cradle Device

1. CALLVISION Mother and Baby Bracelets

Bracelets consist of two parts, a capsule and a cord. The cords are made of antibacterial medical silicone and are disposable, while the capsules are IP67 waterproof. Both wristbands feature RF-based encrypted active location tracking, overheating tracking, low battery warning, NFC tag, wireless charging. In addition, baby bracelets have a sensor to detect the situation of removing the bracelets and warn in case of removal.



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2. CALLVISION Smart Badge

CALLVISION Smart Name Badge is being used to activate the Mother Baby Bracelets in the CALLVISION Mother and Baby Tracking System. In order to activate the bracelets, after the bracelets registered on the CALLVISION Cradle Device are attached to the mother and the baby, and then the wristbands are activated and matched by touching them with the CALLVISION Smart Badge.

3. CALLVISION RF Location Scanner

CALLVISION RF Position Scanner series products transmit the data received from the devices in the field to the system thanks to the wireless communication structure. RF Location Scanners are an essential part of wireless tracking systems and work like a base station. These devices decode the encrypted signals coming from CALLVISION devices (Smart Badge, Item Tracking Active Tag, Mother-Baby Wristband and Patient Wristband) that generate active codes, process them and transmit them to the center. CALLVISION RF Location Scanners are installed in the facility infrastructure. It is placed on ceilings to cover the entire area in line with its range. They communicate wirelessly with both tracking devices and each other and send all data to the system over a single device with an ethernet connection.

4. C4S – Command, Control, Communication and Code System

C4S Command, Control, Communication and Code System is a code system in which CALLVISION products are commanded and controlled and responsible for the communication of some products with each other. System users can access the entire system and devices via C4S. There are 5 different main systems in C4S, these are Active Tracking, Passive Inventory Tracking, Medical Gas Monitoring, Medical Isolated Power Panel Monitoring and Management pages. With the active tracking system, instant locations and past movement reports of all RFID tracking devices in the field can be observed. In addition, they can make adjustments on these devices and create location-based rules (eg, the ultrasound device should not leave the radiology department).

C4S can work as web-based or cloud-based. So, it is possible to use the system on computer or mobile device.



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