EXCEL

Excel Engineering Co., LTD.
Yobe - ru Co., LTD.

General Catalog

2019·2020 Edition

EE-2019-8

● For wireless homecare solution products published on this catalog, it is a premise that only one system is being used in a house
● For the products that use the radio wave, the detection signal reaching ranges may vary based on an environment. As a result of that, the ranges may become short or the devices may not function at all. For the products that use a 2.4 GHz frequency band, they are prone to develop a radio signal interference since they use the same signal frequency band with other devices such as a wireless LAN device.

● Colors of the product pictures on this catalog may be different due to a printing process
● Design and specifications are subject to change without notice

Care Communication

Excel Engineering helps provide independent living for care recipients and an effective, efficient and caring environment for caregivers. Our products help support a streamlined communication environment for all involved.

Our hope is that both care recipients and caregivers have meaningful and enjoyable lives together.

Each page has a QR code. When you scan it you will see an instructional manual for the product.

See the instructional manual

Table of Contents

The price is FOB Japan for 1 pic

Wandering Detection Equipment for People with Dementia
(Qualified for a Long - term - care Insurance Rental Equipment)

NEW iBaby Senior

When the motion sensor detects a care recipient leaves the house and/or an external sensor (e.g., floor, bed, or infrared sensor) detects abnormal activities a notification will be sent to your mobile device.

Motion Sensor

When the iBaby Senior is installed in a WiFi environment, it can provide you a live video via your smartphone.

Single item & External Sensor Package Prices

iBaby Senior
RH7100
TAIS:00682 - 000078
$210

iBaby Senior with Floor Sensor
RH7100
TAIS:00682 - 000079
$285

iBaby Senior with Bed Sensor
RH7100
TAIS:00682 - 000080
$270

iBaby Senior with Plate Sensor
RH7100
TAIS:00682 - 000081
$270

iBaby Senior with Infrared Sensor
RH7100
TAIS:00682 - 000082
$385

NEW iBaby Care

Internet

Motion Sensor

iBaby has the following sensors:
- Motion sensor
- Sound sensor
- Temperature sensor
- Humidity sensor

A WiFi connection is required where iBaby is used.

Alert/Video/talk etc.
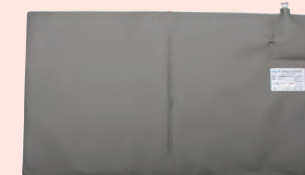
Single item & External Sensor Package Prices

iBaby Care
RH7000
$210

iBaby Care with Floor Sensor
SH7000
$285

iBaby Care with Bed Sensor
SR7000
$270

iBaby Care with Plate Sensor
SP7000
$270

iBaby Care with Infrared Sensor
SK7000
$385

Any sensors that can be used for the Wireless Nurse "Call" System NC-5000 are compatible to iBaby Care system.
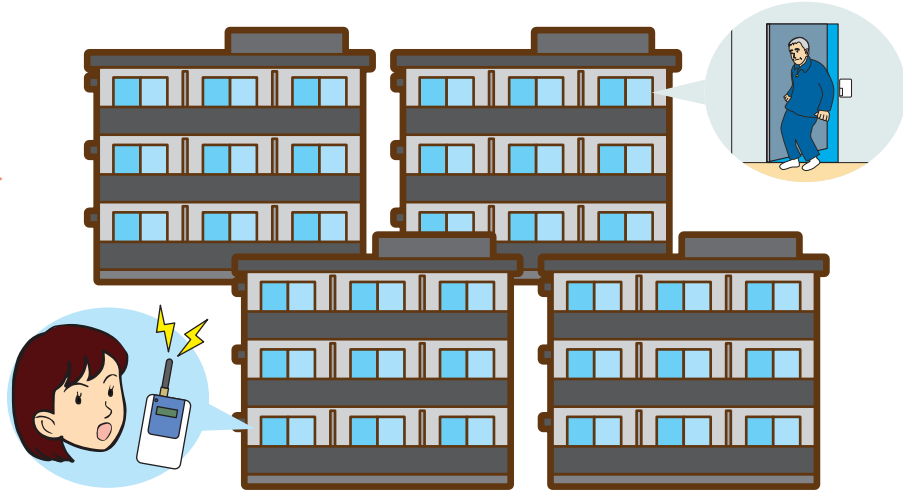
NC-9000 Wireless Nurse Call System

The wireless signal range could reach more than one kilometer.

1 The system is suited to

use in a multi-story high raising building
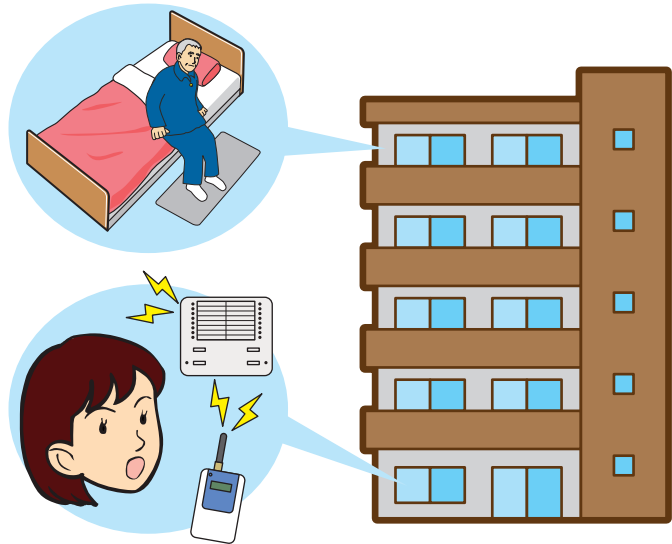
2 The system is suited to

use between buildings

3 The system is suited to

use within a neighborhood. When the system is used in a residential area the wireless signal can reach up to several hundred meters.
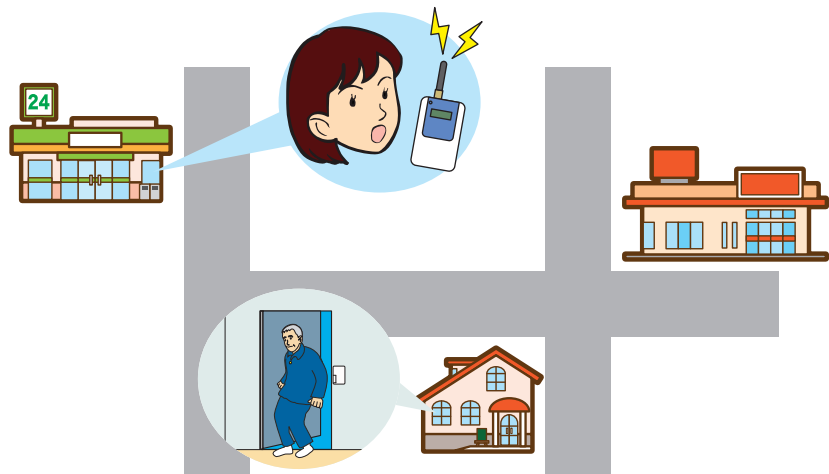
*Because of the technology used in this system, the wireless signal range varies based on the network environment. Please test the wireless signal strength and range before you use the system.

Facility Usage Examples

· Group Homes
· Small Multifunctional Facilities
· Assisted Living Facilities
· Retirement homes
· Geriatric Health Care Facilities, etc.

3FL

2FL

1FL

Without using repeaters or signal extenders, the transmitter and the receiver can be directly connected wirelessly. This will help alleviate the financial burden for a facility.
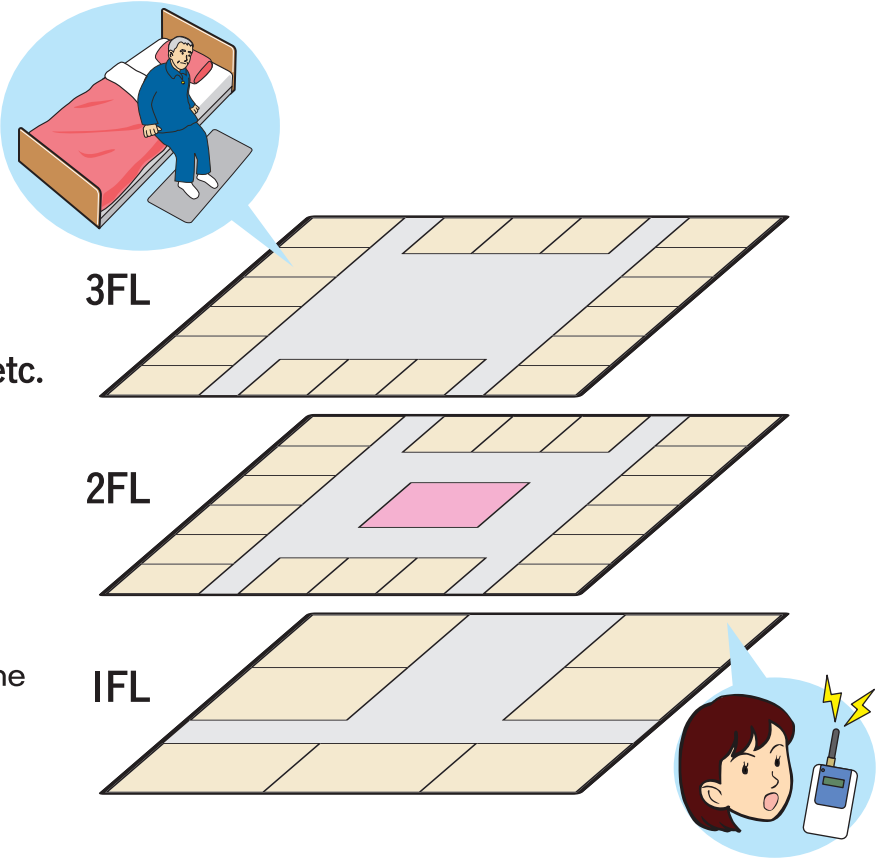
Sensors:
Please refer to page 11 and 12.

Nurse Call Button
NC-9000TXPB

$225

Transmitter
NC-9000TXBF

$225

NC-5000:
· Sensors
· Alert button

Signal Frequency Converter
NC-9000GW

$500

Portable Receiver
NC-9000PRX
· Can register up to 100 channels
· Rechargeable

$260

Base Station Receiver
NC-9000RX
· Can register up to 16 channels
· AC adapter

$270

Alert Display Monitor/Receiver
NC-9000DRX
· Can register up to 521 channels
· Automatically save reports and alerts
· Can manage time periods and users
· Select and filter contents of reports and print them

$1590

例

○月○日～○月○日
Report History
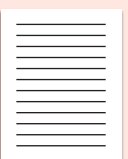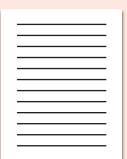
○月○日～○月○日
Alert Report History

Wireless Nurse Call System NC-5000

Wireless Nurse Call System that adapts various facility needs!

① Excel Engineering's various detection sensors can be connected to the existing nurse call system wirelessly.

② Detection and/or nurse call request signals can be transmitted to the base and/or the portable receivers.

NC-5000:Installation Example

First, the Excel's caring sensors need to be connected to the transmitters. Second, the Wireless Adapter Box needs to be connected to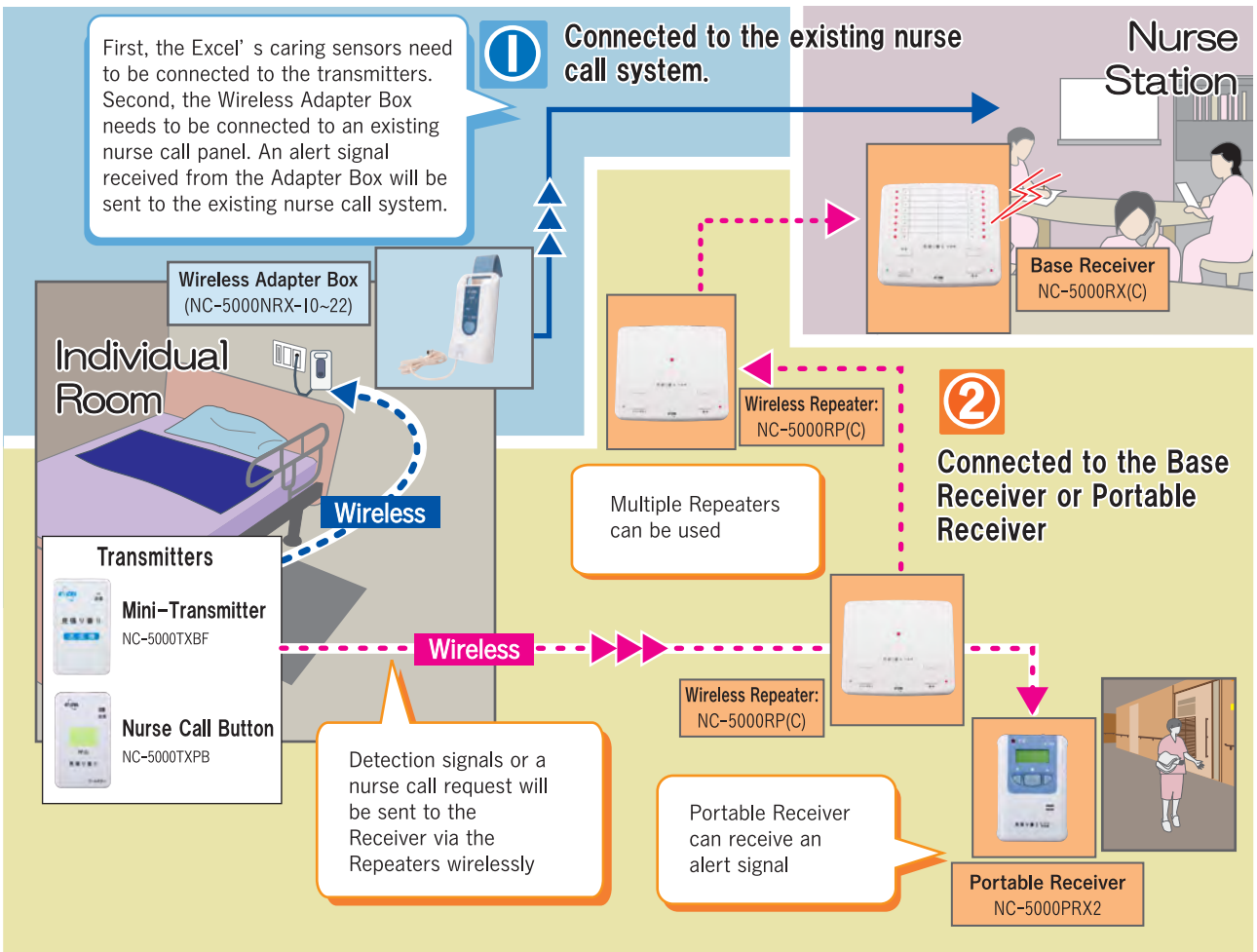 an existing nurse call panel. An alert signal received from the Adapter Box will be sent to the existing nurse call system.

① Connected to the existing nurse call system.

Nurse Station

Base Receiver
NC-5000RX(C)

Individual Room

Wireless Adapter Box
(NC-5000NRX-10~22)

Wireless

Transmitters

Mini-Transmitter
NC-5000TXBF

Nurse Call Button
NC-5000TXPB

Wireless

Multiple Repeaters can be used

Wireless Repeater:
NC-5000RP(C)

② Connected to the Base Receiver or Portable Receiver

Wireless Repeater:
NC-5000RP(C)

Detection signals or a nurse call request will be sent to the Receiver via the Repeaters wirelessly

Portable Receiver can receive an alert signal

Portable Receiver
NC-5000PRX2

Wireless Nurse Call System NC-5000 Products

Wireless Adapter Box
(NC-5000NRX-10~22) for an existing nurse call

$150

See the instructional manual

●This wireless adapter box has capabilities to receive detection signals and connect to an existing nurse call system. The wireless environment will help in creating a safe (no tripping over the cords) and more accessible caring environment.
●It is used in facilities which have a nurse call system
● Up to 3 transmitters can be registered.
● An alarm sound can be stopped temporarily.
● When the transmitter's battery become low the adapter box's LED light starts flashing when it receives a detection signal. Please check this at least once a month).
● Please refer to page 21 for the adapter box's connector

Base Station Receiver
NC-5000RX(C)

$240

See the instructional manual

- A caregiver can be alerted by "alert" lights, sound, or melodies (8 tunes)
- Up to 16 different detection sensors and/or communication devices can be connected to this receiver
- Multiple receivers can be used simultaneously
- When the transmitter's battery becomes low the LED light starts flashing when an alert signal is received. Please confirm if the system is working properly at least once a month.

Portable Receiver
NC-5000PRX2

$225

See the instructional manual

- A caregiver can be alerted by an "alert" sound or vibration
- Up to 63 different detection sensors and/or communication devices can be connected to this portable receiver
- Multiple portable receivers can be used simultaneously
- When the transmitter's battery becomes low the LED light starts flashing when an alert signal is

Wireless Repeater
NC-5000RP(C)

$150

- This repeater increases the wireless network coverage area
- By connecting multiple repeaters, it is possible to cover the wireless network in an entire facility
- The wireless coverage can be identified by pressing the test button
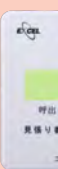
Mini Transmitter
NC-5000TXBF

This mini transmitter can be used for the bed sensor or the floor sensor. The delayed alert timer can be set at 0, 1, 2, or 4 seconds

$90

Portable "nurse call" button for the wireless
adaptor: NC - 5000TXPB

This is a small portable "nurse call" button

$110

Portable Pause Button Box for the wireless
adaptor: NC - 5000TXPH

This is a portable pause button box for the wireless adaptor. When a caregiver wants to clean the room and/or make the bed for a care recipient a nurse call system can be temporarily deactivated by pressing the pause button. The nurse call system can be reactivated by pressing the button on the device. By using the device, false activation of the nurse call system can be prevented.
After 3 minutes elapse, the "pause" function is deactivated automatically. This function can prevent someone from forget to deactivate the "pause" function

$100

Mini Repeater
NC-5000RP2

$225

- This repeater increases the wireless network coverage area
- By connecting multiple repeaters, it is possible to cover the wireless network in an entire facility
- To use the repeater, Simply plug it in to an electrical outlet

Detections sensors that support NC-5000 system

Cordless Bed Sensor

Cordless Floor Sensor

Wheel Chair Sensor

Magnet Sensor

Infrared Sensor
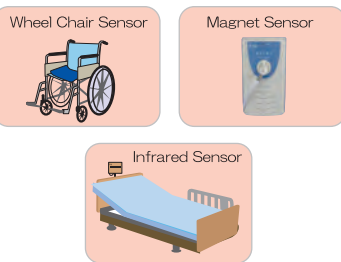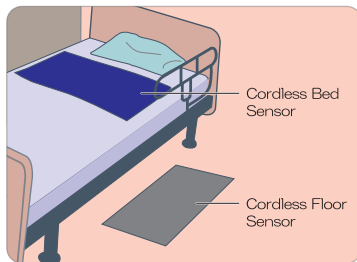
*To see more detailed information of each senor, please refer to the corresponding pages

Since the NC-5000 is a wireless signal transmission system, we will examine your wireless signal environment before preparing an estimate and installation of the system. Based on your facility's environment conditions, the system may require a repeater(s). Please examine the wireless signal coverage in your facility. Please contact us for more detailed information on the products. We are looking forward to hearing from you.

Cloud-Based Total Care System

A care recipient can be monitored by using various wireless detection sensors on your PC or smartphone within your network.

- Cost effective installation! As long as you have a Wi-Fi environment is available in your home the initial cost is minimal. You can rent our detection sensors you can keep the budget lower.
- The Vital monitoring sensor which has a high demand in a senior care facility can be used with this system.
- Easy data sharing! Care recipients' detection information can be shared between a care facility and the care recipient's family members.

PC and Smartphone   Internet

Sensor Devices

Receiver (Built in Router)

● It is compact and can be installed in a very small space. The wireless signals can be detected within the radius of 15m.
● By installing multiple receivers, a care recipient's position within a facility can be identified.

$315

Pulse Sensor

● This sensor can measure an individual's pulse count
● The built-in tri-axial accelerometer can detect an individual's motions
● There is a wireless "push button" built in to alert a caregiver

$315

Nurse Call Button (Wrist Band Type)

● The built-in tri-axial accelerometer can detect an individual's motions
● There is a wireless "push button" built in to alert a caregiver
● This device is IPX7 water proof rating product
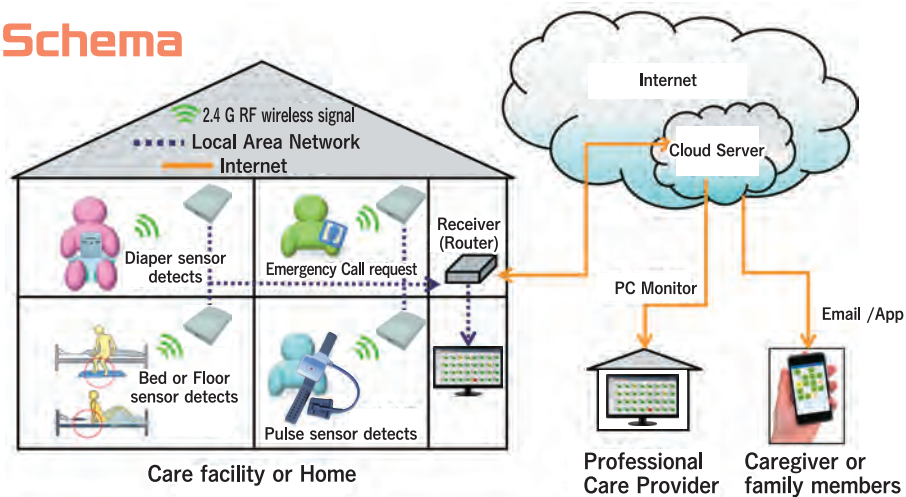
$200

Wandering/Leaving-Bed Plate Detection Sensor

● This device is very light and compact design
● The sensor detects wandering / leaving-bed incidents

$295

NEW Twin Sensor Package

● Two detection sensors can be combined to detect "getting up" from the bed, "Leaving" the bed, and presence of an individual in bed.
● The prices vary based on the combination of the sensors

Leaving-Bed Detection Sensor

● There are two sensors available: Bed Sensor and Floor Sensor
● The sensors detect when an individual is trying to leave the bed

$225

$315

Diaper Sensor

● The sensor alerts when the sensor gets wet.
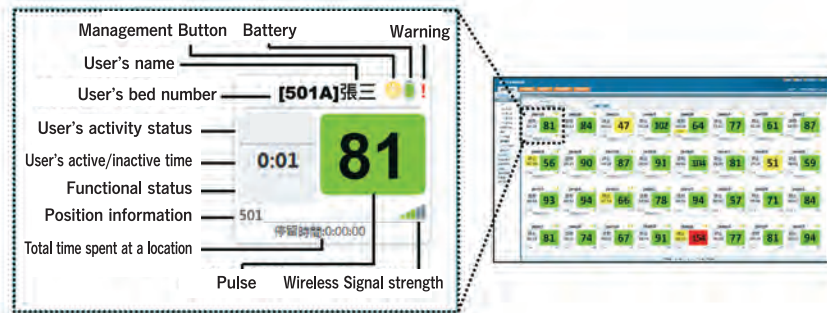● This will help a caregiver to know when to change the diaper

[Sold separately: Sensor Tate Built-in Pads (30 counts)]

$200

System Schema

2.4 G RF wireless signal
Local Area Network
Internet

Diaper sensor detects
Emergency Call request
Receiver (Router)
Internet
Cloud Server
PC Monitor
Bed or Floor sensor detects
Pulse sensor detects
Email /App

Care facility or Home
Professional Care Provider
Caregiver or family members
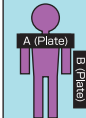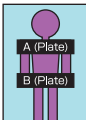
Caring App for your smartphone

Management Button   Battery   Warning
User's name
User's bed number   [501A]張三
User's activity status
User's active/inactive time   0:01   81
Functional status
Position information   501   停留時間0:00:00
Total time spent at a location
Pulse   Wireless Signal strength

NEW Twin Sensor Package Usage Option

	Usage Options		Sensor activation status and a care recipient's position status				A care recipient's position status
Option 1	A (Plate) / B (Plate) / C (Floor/let)	2 Plate Detection sensors + 1 Floor sensor	Sensor A	✓	✓	✗ ✗	Position Status 1
			Sensor B·C	✗	✓	✓ ✗	Position Status 2 在床
			Position Status	2 2		4 5	
Option 2	A (Plate) / B (Plate)	2 Plate Detection sensors	Sensor A	✓	✓	✗ ✗	Position Status 3 起床
			Sensor B	✗	✓	✓ ✗	Position Status 4 離床
			Position Status	2 2		3 5	
Option 3	A (Plate) / C (Floor/let)	1 Plate Detection sensor + 1 Floor sensor	Sensor A	✓	✓	✗ ✗	Position Status 5 離床
			Sensor C	✗	✓	✓ ✗	
			Position Status	3 4		1 1	

- A caregiver can monitor a care recipient via a PC or a smartphone 24/7
- A large number of care recipients' caring data can be managed.
- There are various alert settings available (e.g., upper and lower limits of pulse counts, an emergency call request, duration of inactive status)
- Based on the location of the receiver, a care recipient's position within a care facility or home can be identified.
- An alert signal is sent to your PC or smartphone along with corresponding information from the various detection sensors

- A 3-year customer support fee is included and the cloud service is free
- Within the 3 year of contract, if any of the devices become malfunctioning we will replace them for free
- We do have demo devices. You are more than welcome to try out our product
- A PC and/or a smartphone are not included

List of Sensors

Around the Bed
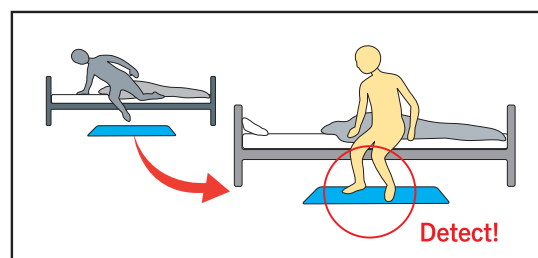
Floor Sensor `P13`
Can work with NC5000 and NC9000
Detect!
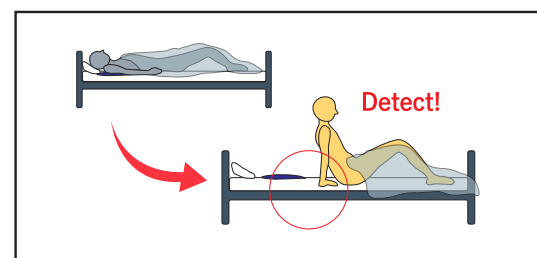
Bed Sensor `P14`
Can work with NC5000 and NC9000
Detect!

Plate Sensor `P15`
Can work with NC5000 and NC9000
Detect!
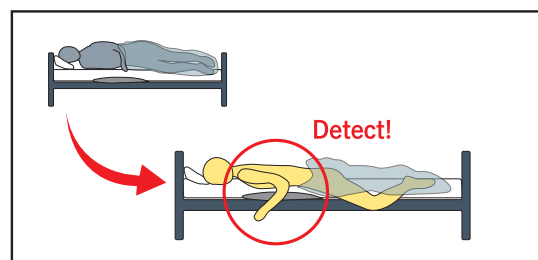
Infrared Sensor `P17`
Can work with NC5000 and NC9000
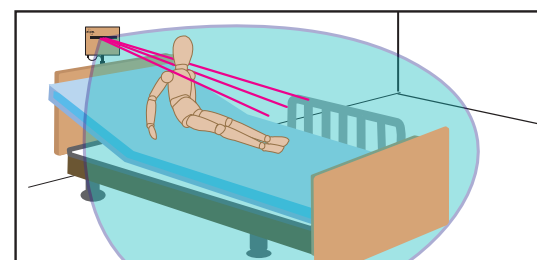
Side-Bed Sensor `P16`
Can work with NC5000
Detect!
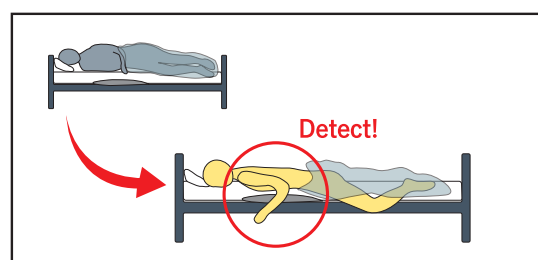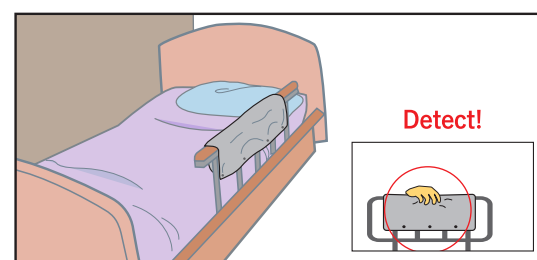
Side-Rail Sensor `P16`
Can work with NC5000 and NC9000
Detect!
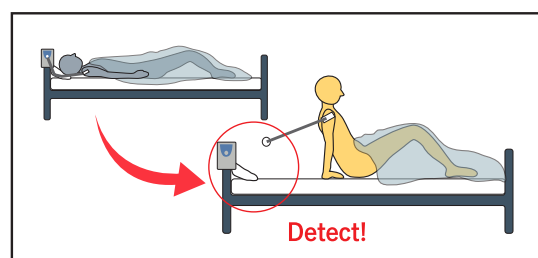
Magnet Sensor `P16`
Can work with NC5000 and NC9000
Detect!

Wheelchair

Wheelchair Sensor Pad `P19`
Detect!

Pad-Less Wheelchair Detection Sensor `P20`
No pad!
On-site alert!
Wheelchair seat
Reset Switch
Hooks
To the Reset Switch
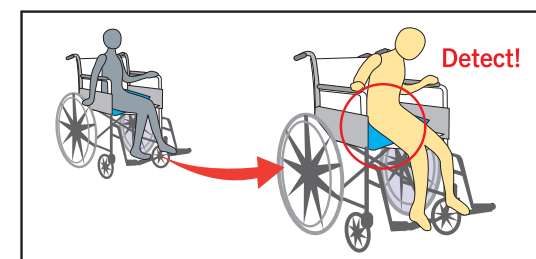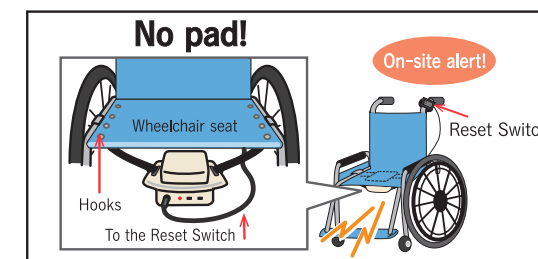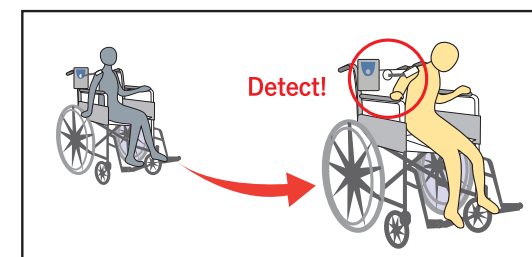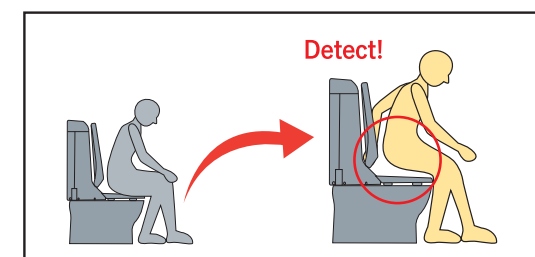
Magnet Sensor `P20`
Detect!

Toilet Seat Sensor

Toilet Seat Sensor `P21`
Can work with NC5000 and NC9000
Detect!

Diaper Sensor
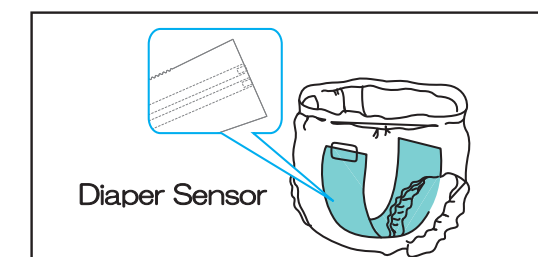
Diaper Sensor
Diaper Sensor `P21`
Can work with NC5000

Exit and Entrance
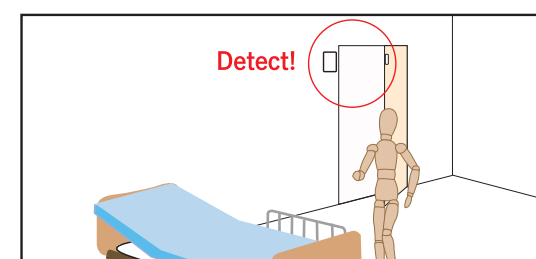
Door Sensor `P22`
Can work with NC5000
Detect!
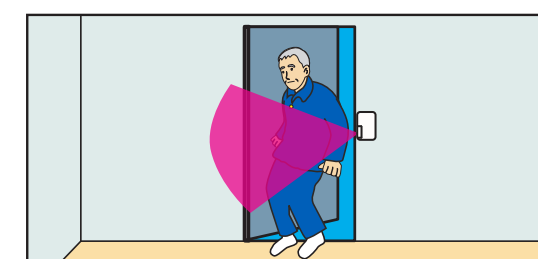
Infrared Sensor `P22`
Can work with NC5000

Floor Sensor: For wandering prevention!

When an individual steps on the sensor pad it detects!
● This sensor pad alerts when an individual's body weight creates a pressure on the pad by the bed (where the individual places his or her feet when he or she leaves the bed).
● The pad would be most appropriate for individuals who need to be monitored for the potential risk of falling or wandering.

Detect!

Wired Adapter Box

Floor sensor

Wireless

Wireless Adapter Box

Wireless

Wireless Floor Sensor

Wire Connection

Wireless Connection

Size Medium shown on the photo

1200mm Size Large
900mm Size Medium
800mm Size Small
450mm
600mm
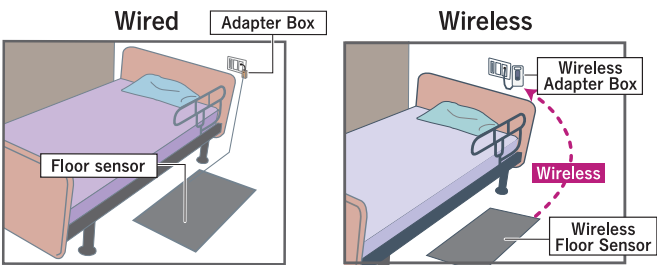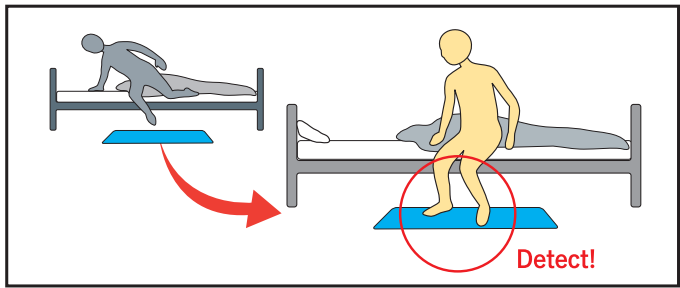
	Floor sensor only	Wired Floor sensor & a Nurse Call Connection Package The package includes the Hybrid Floor Sensor, an Adapter Box, and Nurse Call connection cables	Wireless Floor sensor & NC5000 Package The package includes the Hybrid Floor Sensor, a wireless Adapter Box, and a Mini Transmitter
Hybrid Floor Sensor: Size Small	EFM-57/S-C $110	EFMS-57/S $160	SNC5000F-57/S $295
Hybrid Floor Sensor: Size Medium	EFM-57/M-C $175	EFMS-57/M $220	SNC5000F-57/M $340
Hybrid Floor Sensor: Size Large	EFM-57/L-C $200	EFMS-57/L $245	SNC5000F-57/L $180

Bed Sensor: For help prevent an individual from falling off the bed.

● This sensor is designed to help prevent an individual from falling off the bed.
● Based on an individual's needs a location of the sensor is selected. When an individual attempts to get up or the body moves too close to the edge of the bed the sensor alerts.
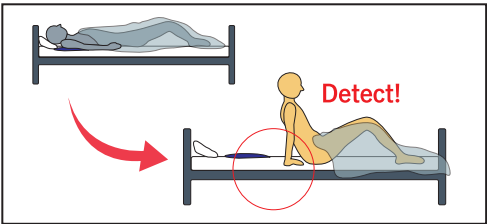
Detect!

Bed Sensor Installation Example

When an individual attempts to get up it detects!
● Place the sensor just underneath of the individual's shoulder blades.
● When pressure from an individual's body weight decreases a caregiver is alerted

Wired Bed Sensor
Anti-bacterial Water resistant

390 × 767 × 6.5 mm

Adapter Box

Bed sensor Size Wide
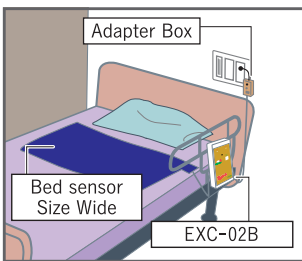
EXC-02B

EXC-02B is used to connect with an existing nurse call system

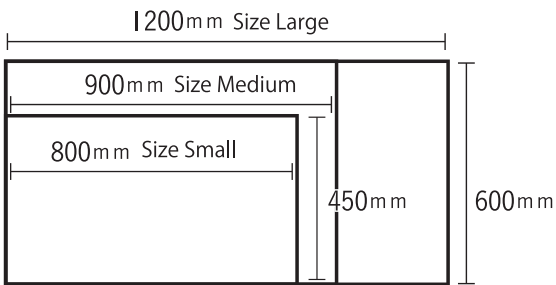Size:Wide EPB54-W-I **$60**

EXC-02B & Bed Sensor (Size: Wide)
Package:The Bed Sensor can be folded in half.
EXC02S-5W **$275**
The package includes one Bed Sensor (size Wide), one EXC-02B, One Adapter Box, and Nurse Call connection cables

Wireless Bed Sensor

390 × 850 × 1.5 mm

Cordless Bed sensor

Wireless Adapter Box
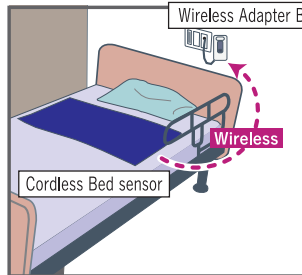
Wireless

The Wireless Adapter Box is used to connect a nurse call system

EPB58-W-2 **$100**

NC-5000 & Wireless Bed Sensor
Package:The Bed Sensor can be folded in half.
SNC5000B-58W-2
The package includes one Wireless Bed Sensor (build-in transmitter) and one Wireless Adapter Box **$295**

Affordable Sensor Pad

When an individual attempts to get up it detects!

$20

Detect!
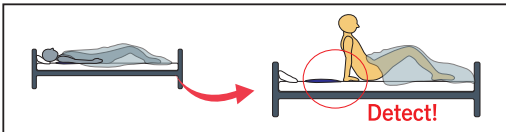
Product #	Types of Plugs	Dimensions
EPB90-W	Modular Plug	
EPB90-W/MP	Mini Plug	381 × 762 × 6 mm
EPB90-W/RCA	RCA Plug	

*The duration of warranty on these products is 90 days from purchase; however, they can be used longer. They are not intended to be used for multiple care recipients.

Floor Sensor: For wandering prevention!

The sensor uses the Seesaw Switch Technology which helps to minimize false detections. It is very compact yet, it can detect presence of a care recipient on the bed sensitively without complicated detection setting adjustments. The sensor is durable and invisible when installed. Further, the sensor can be used as a bed sensor and a side-bed sensor. The sensor can be connected to Excel Engineering's Cloud-Based Total Care System, (see page 9-10), NC-9000 Wireless Nurse Call System (see page 5-6), NC-5000 (see page 7-8), and EXC02S Wired Nurse Call Activation/In-Room Alert System (see page 23)

Early detection and alert:

It detects when a body (the majority of the body weight) gets too near the edge of the bed for preventing a potential falling accident

Relationship between the sensor activations and what actually happened to a care recipient at a care facility

	False detection	Activities					Accident about to happen	Accident	
Number of detection alerts and their percentage of each incident	16	95	88	333	125		60	1	計 718
	2.2	13.2	12.3	46.4	17.4		8.4	0.1	100%
	Normal Sleep	The body was hanging off the bed	Departure from t he bed	Sitting on the edge of the bed	Standing while holding on to somet hing		Standing with no support	Falling accident	
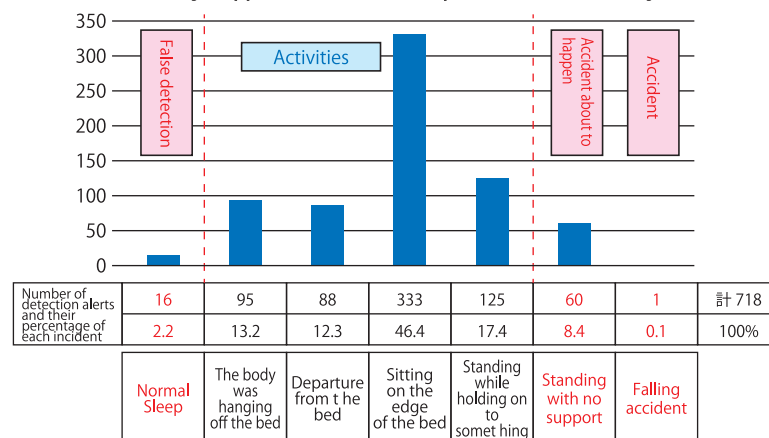
440 × 50 × 16 mm

Wandering/Leaving-Bed Plate Detection Sensor:
EPS-50
$ 65

Wired Nurse Call Connection Package
EPSS-50

Package includes:
- One Wandering/Leaving-Bed Plate Detection Sensor
- One adaptor box
- One adaptor cable

$ 130

Wireless Nurse Call System Package
SNC5000PS

Package includes:
- One Wandering/Leaving-Bed Plate Detection Sensor
- One wireless adaptor box
- One NC5000 transmitter

$ 270

Wired Nurse Call Activation/In-Room Alert System Package
EXC02S-PS

Package includes:
- One Wandering/Leaving-Bed Plate Detection Sensor
- One EXC02S unit
- One adaptor box
- One adaptor cable

$ 280

Side-Bed Sensor Pad

Side-Bed Sensor Pad (Wireless) Anti-bacterial Water resistant

Transmitter is connected to a nurse call panel.

Wireless Adapter Box

Side-Bed Sensor Pad

Wireless

NC5000

125 × 765 × 1.5 mm
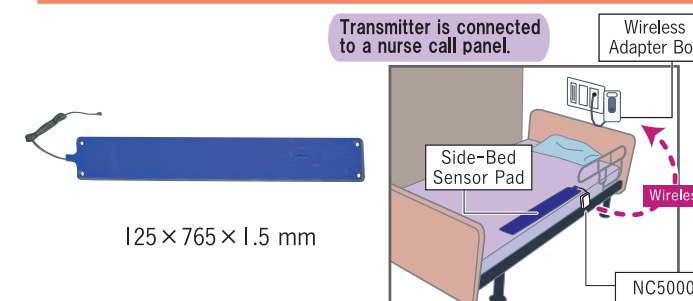
The Side-Bed Sensor Pad connected to a nurse call system wirelessly.
*A cord from the sensor can be shortened as an option.

EPB54 ## $ 40

Side-Bed Sensor Pad and NC5000 Package:
SNC5000F-5BS
$ 250

The Package includes:
One Side-Bed Sensor Pad, one NC5000 transmitter, and one Adapter Box

Side-Rail Sensor Pad
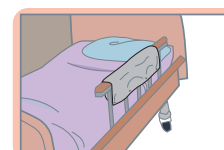
Side-Rail Sensor Pad – This sensor can be placed over the bed-side-rail. When an individual grabs the side rail (i.e., when the individual creates the pressure on the sensor pad) it activates a nurse call system. Since the transmitter is built inside of the pad, it creates a safe cordless environment around a care recipient. The side-rail sensor pad can be used with Excel's wireless nurse call system, NC5000 (see page 7-8).

When an individual grabs the side it activates a nurse call system.

Detect!

Cordless Side-Rail Sensor Pad (EPB58-SR/L)

Adapter Box

Wireless

Cordless Side-Rail Sensor Pad (builtin transmitter

260 × 700 × 8 mm
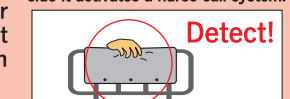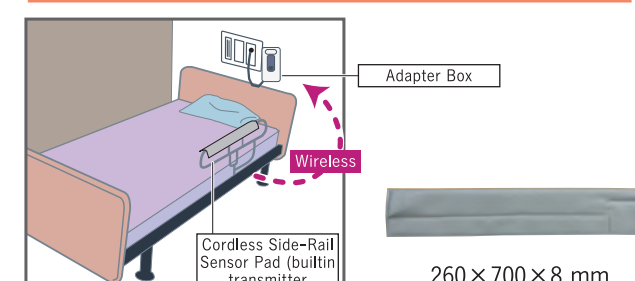
EPB58-SR/L ## $ 105

Small Cordless Side-Rail Sensor Pad (EPB58-SR/S)

Adapter Box

Wireless

Small Cordless Side-Rail Sensor Pad (built-in

170 × 280 × 8 mm
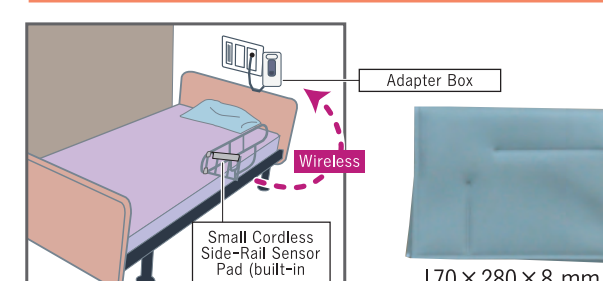
EPB58-SR/S ## $ 50

Magnet sensor

Magnet sensor and NC5000 Wireless Nurse Call System package (SN5000TXMG)

n example of when the Magnet Sensor is used for a

When a magnet attached to the main unit separates from the main unit an alert signal is sent wirelessly to a nurse call station.

Detect!

Adapter Box

Wireless

Magnet sensor and NC-5000 Wireless Nurse Call System
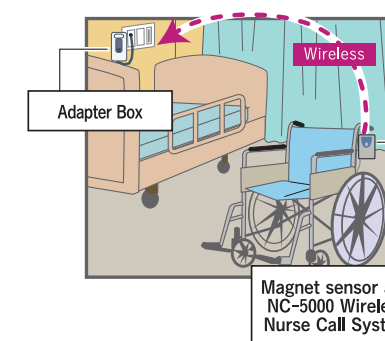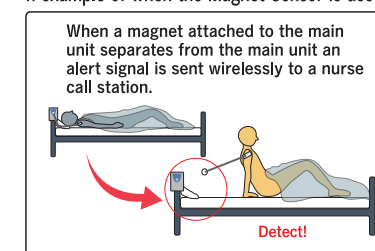
The package includes:
One Magnet Sensor and one NC5000

Wireless

SNC5000TXMG
$ 170

The Infrared Double Sensor Detection Monitor System (MS3100D)

The infrared sensors detect movements on the bed. Two different kinds of sensors (Double-triggered sensor system) detect an individual's departure from the bed, absence from the bed, and potentially hazardous locations on the bed.

MS-3100D $295

Type A: This setting is used for detecting the movement of an individual on the bed who is "getting up from the bed." Using the two types of infrared sensors helps minimize false alarms!

Two types of infrared detection sensors are used effectively to detect an individual on the bed who is "getting up from the bed".

MS3100D

②

The infrared distance detection sensors try to detect the individual on the bed.

①

The infrared motion detection sensor or the Human Sensor (HS) tries to detect any infrared radiation discrepancy in the detection range.

Type B: This sensor detects when the body gets too near the edge of the bed (antifalling detection). The sensor also detects subtle sluggish movements!

When only the Body-position detection sensor is used the infrared beams stop, and the programmable timer starts (ranges from 0-60 minutes). When the timer stops the infrared beams start trying to detect the presence of the individual on the bed. If the individual does not come back to the detection range (on the bed) in the programed time an alert system will be activated.

MS3100D
Approx.
The angle of the main unit is adjustable.

The sensor can detect when a body gets toonear the edge of the bed.
Detect!

The three infrared beams detect an individual's body temperature and the body's position on the bed.

*The infrared beams are invisible.

The system will reset to the regular mode.

The first time the individual is not detected the infrared beams stop and the programmable timer starts (1, 2, 4, 6, 8, 10 seconds).

If none of the three infrared beams can detect the individual's body temperature or the position of the body on the bed then…

When the timer stops the infrared beams start trying to detect the presence of the individual on the bed.

If the individual on the bed is detected then…

After the second time the individual is not detected and none of the three infrared beams can detect the individual's body temperature or the position of the body on the bed, an alert system will be activated.

A nurse call system will be activated.

Type C: This setting is used for detecting an individual s potential wandering ("not back in bed") and emergency situations. The programmable timer can be set for 3, 6, 10, 20, 30, or 60 minutes.

Type D: The sensor can be placed by a bed to be used for monitoring if an individual leaves his/her bed.

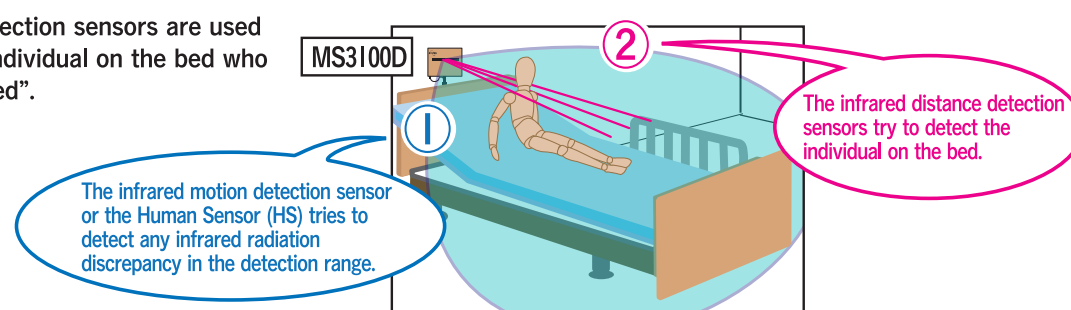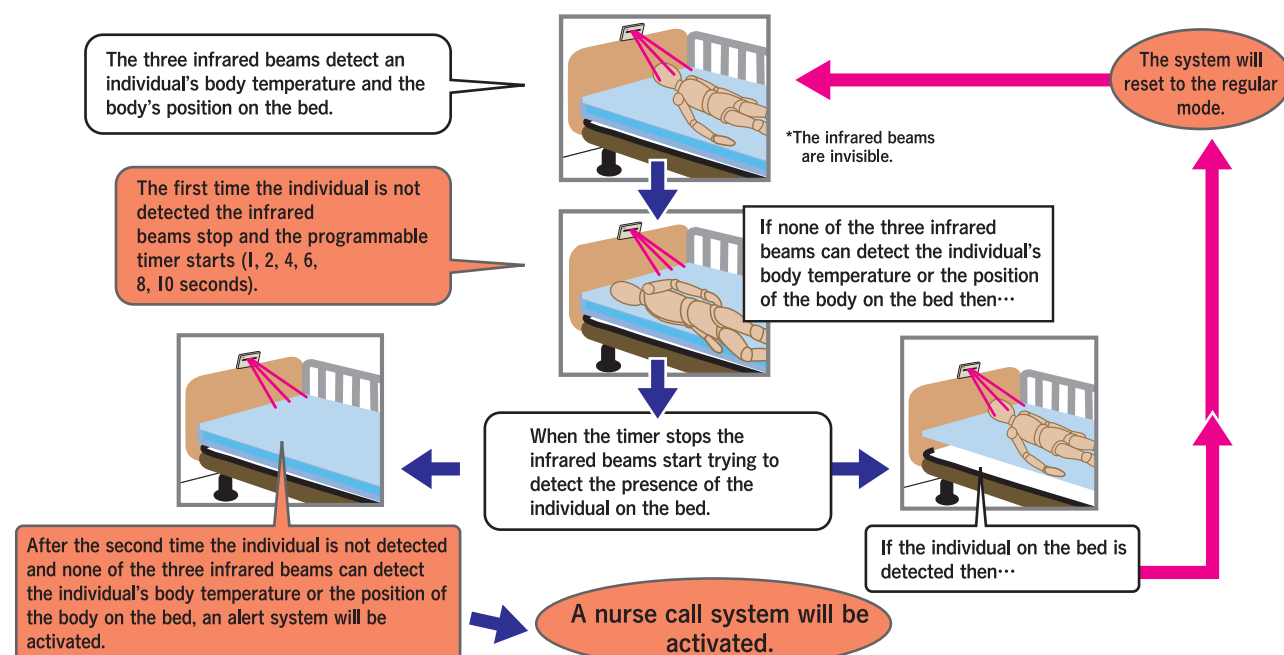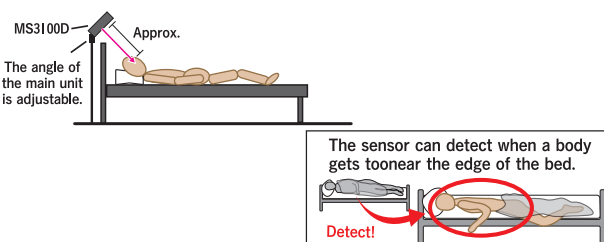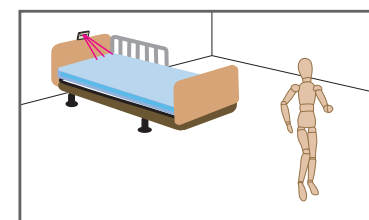The MS-3100B can be placed on the floor.

Other applications of using the mS3100D
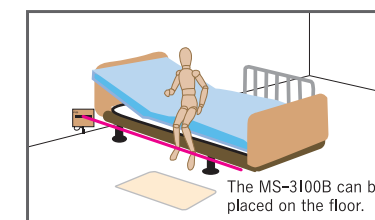
MS-3100B Accessories

60 ～ 110 c m

22 ～ 38 c m

Long stand
MS-3000-2
Includes: a long pole, and a stand
$20
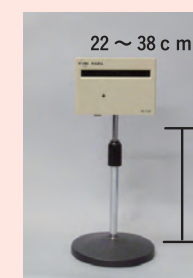
Short stand
MS-3000-3
Includes: a short pole, and a stand
$20

Bed Holder
BH-2
Easy to install!
$15

Adjustable Angle Connector
P T-1
Easy to change the angle. It can be attached to the holder or the pole.
$35

MS-3100D & Nurse call Connecter Package (Wired)

MS-3100D is connected to a Nurse Call system

Wired Type

MS-3100D   Adapter Box
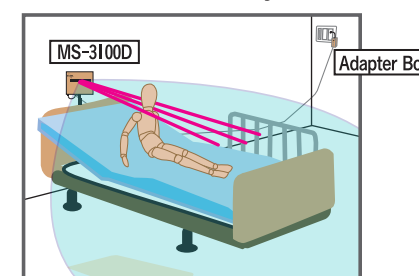
Package Type	Product #	Contents	
MC-3100 with the Long Stand	MS3100D-LB	● MC-3100 (1) ● Long Stand (1) ● 2PNC cable (1) ● Adapter Box (1)	$340
MC-3100 with the Short Stand	MS3100D-SB	● MC-3100 (1) ● Short Stand (1) ● 2PNC cable (1) ● Adapter Box (1)	$340
MC-3100 with the Bed Holder	MS3100D-H	● MC-3100 (1) ● Bed Holder (1) ● 2PNC cable (1) ● Adapter Box (1)	$340

MS-3100D & Nurse call Connecter Package (Wireless)

The Wireless Adapter Box is used to connect to a nurse call system

Wireless Type

MS-3100D   Wireless
Wireless Adapter Box
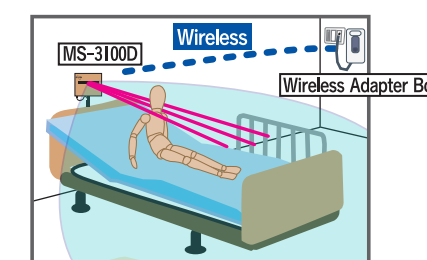
Package Type	Product #	Contents	
MC-3100 with the Long Stand	SNC5000-MS3100EL	● MC-3100 (1) ● Long Stand (1) ● Wireless Adapter Box (1)	$475
MC-3100 with the Short Stand	SNC5000-MS3100ES	● MC-3100 (1) ● Short Stand (1) ● Wireless Adapter Box (1)	$475
MC-3100 with the Bed Holder	SNC5000-MS3100EH	● MC-3100 (1) ● Bed Holder (1) ● Wireless Adapter Box (1)	$475

Wheelchair Sensor Pad

Falling accidents typically occur when an individual tries to get up from a wheelchair. This sensor pad is designed to use with a wheelchair.
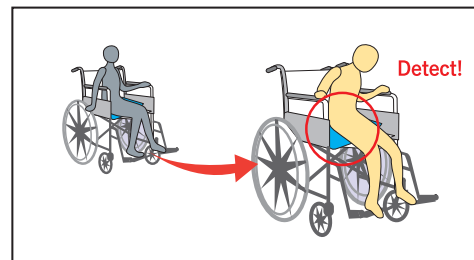
When an individual tries to get up from a wheelchair it detects! Falling accidents typically happen when an individual tries to get up from a wheelchair. When the weight of the individual becomes less on the wheelchair due to the attempt of the departure from the wheelchair the device alerts the individual as well as a caregiver.

Detect!

Wheelchair Sensor Pad (EPC-53) Anti-bacterial Water resistant

EPC-53 $45

305 × 382 × 6.5mm

Affordable Wheelchair Sensor Pad (EPC-90)

EPC-90

305 × 381 × 6mm

*The duration of warranty on these products is 90 days from purchase; however, they can be used longer. They are not intended to be used for multiple care recipients.

Wheelchair Sensor Pad (EPC-53) & NC5000 Package

By using the wireless Adapter Box, the Wheelchair Sensor Pad can be connected to the nurse call system wirelessly.

SNC5000C-5C $250

Wireless

Wireless

Wireless Adapter Box connected to the nurse call panel directly

NC5000 Transmitte

Wheelchair Sensor Pad

Package contents	● One Wheelchair Sensor Pad (EPC-53) ● One NC5000 Transmitter ● One Wireless Adapter Box

Wheelchair Sensor Pad (EPC-53) & EXC02-5C Package

The Wheelchair Sensor Pad can be connected to EXC02-5C. The EXC02-5C can alert an individual in a wheelchair by a melody/buzzer sound when he/she tries to get up. The melody/buzzer sound stops when the individual sits back down.

EXC02S-5C $200

Alert an individual right there

Beep, Beep, Beep...

Wheelchair Sensor Pad
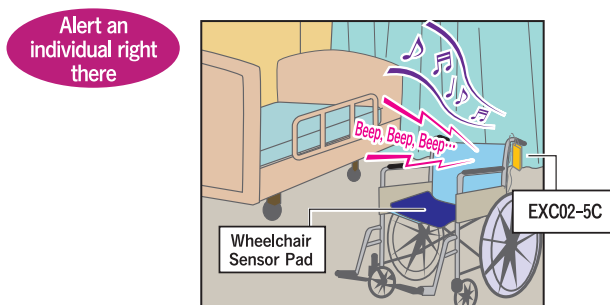
EXC02-5C

Package contents	● One Wheelchair Sensor Pad (EPC-53) ● One EXC02-5C

Pad-Less Wheelchair Detection Sensor (ETL08-I)

No pad!

Wheelchair seat

A hook
This cable is connected to the Reset switch

Alert an individual right there

Reset switch

This device is securely installed under the wheelchair seat.
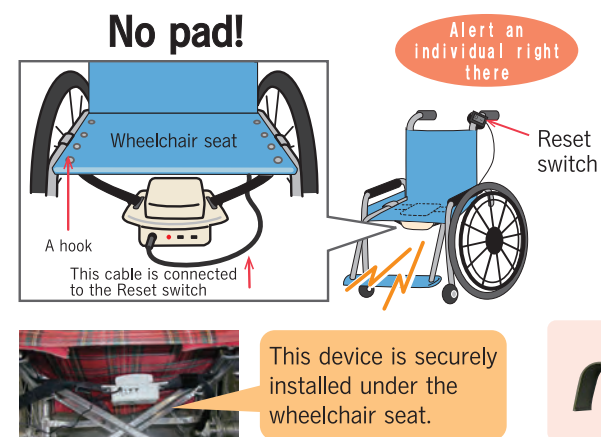
Install the ETL08-I underneath of the wheelchair seat. The ETL08_-can alert an individual in a wheelchair by an alarm/chime/buzzer sou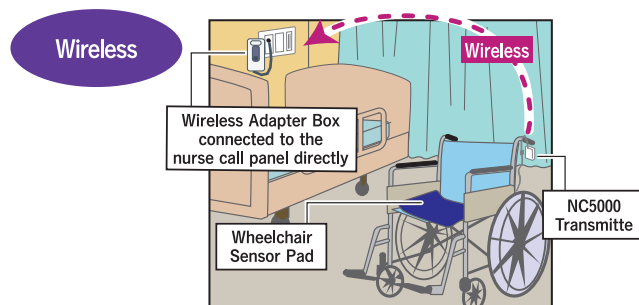nd when he/she tries to get up. The melody/buzzer sound stops when the individual sits back down. Less noticeable from the individual in the wheelchair.

Voice Setting:
The voice recording can be up to 15 seconds using your own voice or a favorite comforting voice.

"Please be seated!"

"It is dangerous to get up!"

ETL08-I $190

Magnet Sensor

Magnet Sensor

When a magnet attached to the main unit (a bed or a wheelchair) separates from the main unit an alert signal is sent wirelessly to a nurse call station or an alarm sound is generated to warn an individual in a wheelchair. Please see the diagrams below.

An example of when the Magnet Sensor is used for a wheelchair.

When a magnet attached to the main unit separates from the main unit alarm sound is generated and warns the individual in the wheelchair.
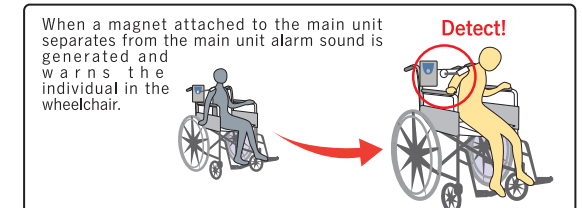
Detect!

Magnet sensor and NC-5000 Wireless Nurse Call System package (SN5000TXMG)

Excel's wireless adaptor box is used to connect the Magnet Sensor wirelessly. The detection signal will be transmitted to a nurse call station.

SNC5000TXMG
$170

Wireless

Wireless

Wireless adaptor box
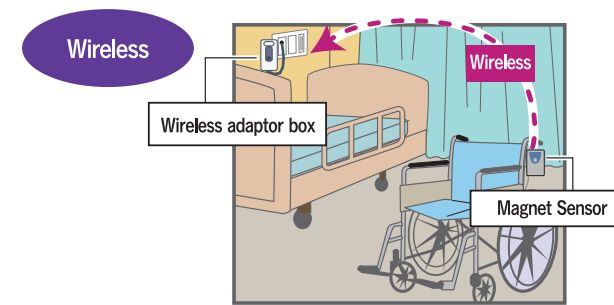
Magnet Sensor

This package includes one Magnet Sensor and one Wireless Adaptor Box

Magnet Sensor only (EMG-01)

An alarm sound warns the individual in the wheelchair. When the magnet is replaced on the main unit the alarm sound will stop.

EMG-01
$50

Alert an individual right there

Beep, Beep, Beep...

Magnet Sensor
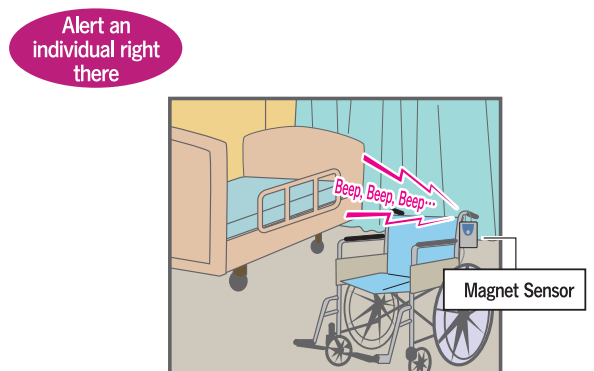
Toilet Sensor & Disposable Diaper Sensor

Toilet Sensor (ETP56-5)

The sensor pads alert when an individual decreases the body weight pressure from the toilet seat or pad.

Detect!

The sensor can help detecting falling accidents.

Transmitter
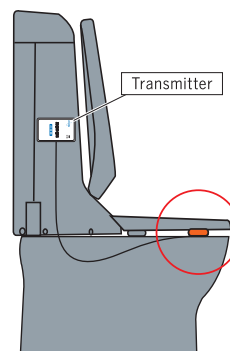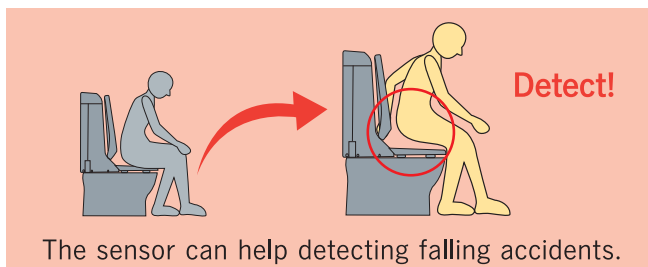
The sensor pad is placed underneath of the toilet seat.

To function as an on-site alert system for monitoring an individual's departure from the toilet seat, use the Toilet Sensor and EXC-02B together (see page 12).
To Connect an existing Nurse Call System wirelessly, use the Toilet sensor and NC-5000 (see page 7-8) together.

Water-Resistant & Antibacterial

Toilet Sensor (ETP56-5)
$55

Disposable Diaper Sensor

The sensor alerts when the sensor gets wet! This will help a caregiver to know when to change the diaper. This sensor can be connected to an existing nurse call system wirelessly via NC-5000 (see page 7-8).
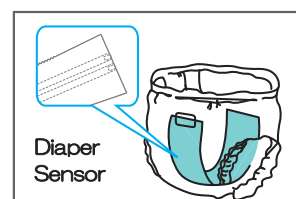
Diaper Sensor

Sensor Tapes (WCT): The sensor tape is placed inside of the diaper.
The tape consists of three layers (garment/aluminum/garment). This makes a user more comfortable when he or she wears the diaper.

65×410mm

This is a onetime-use disposable tape.

100 pieces   WCT100
400 pieces   WCT400
$10/100pcs
$45/400pcs

Sensor Tape Built-in Pads (WCP): This built-in sensor tape pad absorbs moisture. There are 30 pads in this item.

210 x 490mm
Absorbable capacity：500ml
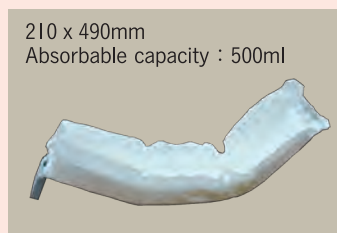
This is a one-time-use disposable tape.

WCP500
$10

Diaper Sensor Transmitter (NC- 5000TXWA): The transmitter can send a detection signal wirelessly to a receiver.

NC-5000TXWA
$135

Door/Corridor Sensor

When the door opens it detect!

The door sensor/transmitter and the magnet unit should be installed to an individual's room door (see a diagram above). When the individual opens the door the door sensor/transmitter units are forced to separate from each other. This triggers an alert to a caregiver. The Excel's NC-5000 Wireless Nurse Call system can be connected with the door sensor and the NC-5000's various receivers can be activated when the door is opened. It is intended to prevent wandering and to monitor a door's open/shut activities.

Door Sensor

Detect!

Door sensor/transmitter
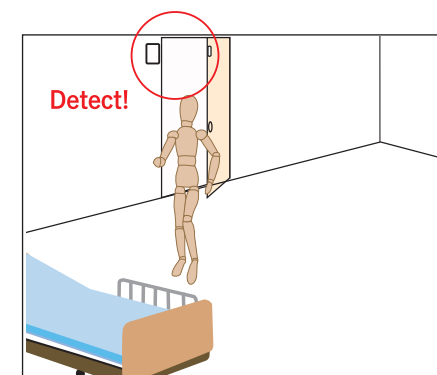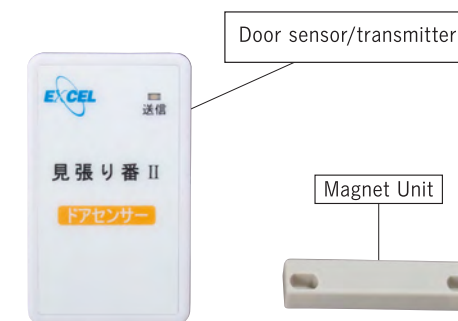
Magnet Unit

Door sensor/transmitter's dimensions:
        41mm x 69mm x 9mm
Magnet's dimensions:
        12mm x 50mm x 7mm

Door sensor/transmitter NC-5000TXDR
Includes: One Door sensor/
        transmitter & one Magnet Unit
$145

Exit and Entrance: Infrared Sensor(RH-5000TXIR)

The infrared Sensor can detect an infrared generated from a person and alert a caregiver via NC5000 (see page 7-8).
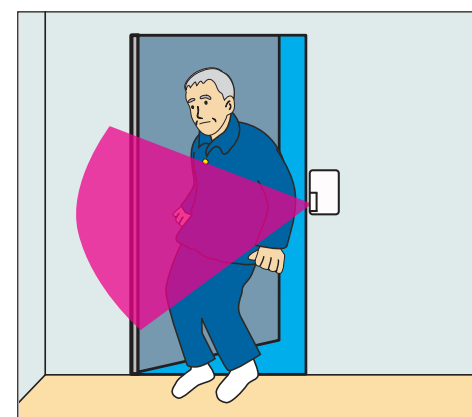
38×109×69mm

Door Sensor RH-5000TXIR
$145

21
22

Portable Wireless Nurse Call Activator: NC-5000TXNCB

Button 1
Button 3
Button 4
Button 2
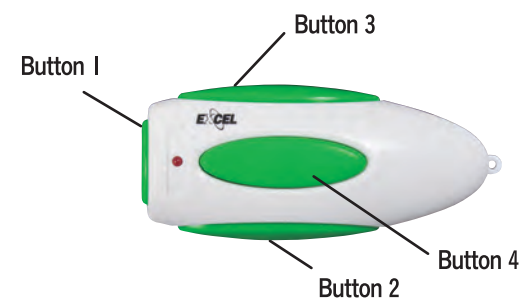
This is a portable nurse call activator. Pressing any of the 4 buttons will activate a nurse call system wirelessly. For an individual who has difficulty pushing a regular nurse call button, he or she can squeeze or place his or her hand or elbow on the nurse call activator to activate the nurse call system.

NC-5000TXNCB $110

Wireless Adaptor Box
Connecting to an existing nurse call system
From a bed
From a wheelchair
From a restroom
Nurse call button

- This portable nurse call activator can be connected with Wireless Nurse "Call" System NC-5000 (Refer to page 7- 8).
- Pressing any of the 4 buttons will activate a nurse call system wirelessly
- This device includes a lanyard to carry the activator
- This device can be used for someone who has difficulty pushing a regular nurse call button

Wired Nurse Call Activation/In-room Alert System (EXC-02B)

See the instructional manual

EXC-02B $170

This unit can be interfaced with the Excel Engineering's Bed Sensor and activate a nurse call system. In addition, this unit, with the Bed Sensor, can be used as an in-room alert system for facilities without a nurse call system. A timer can be set (i.e., 0,1,2, and 4sec) before the bed sensor pad alerts a nurse call system. This can minimize a false alarm caused by an individual departs from the sensor pad and returns onto the sensor pad momentarily.

The Wheelchair Sensor Pad can be connected to EXC02-5C. The EXC02-5C can alert an individual in a wheelchair by a melody/buzzer sound when he/she tries to get up. The melody/buzzer sound stops when the individual sits back down. There are multiple melodies and sounds available. If multiple users use the system simultaneously they can be identified by the different melodies and sound they use.

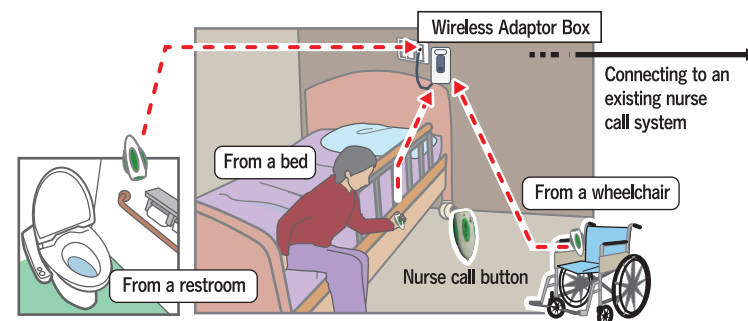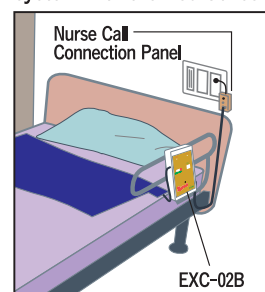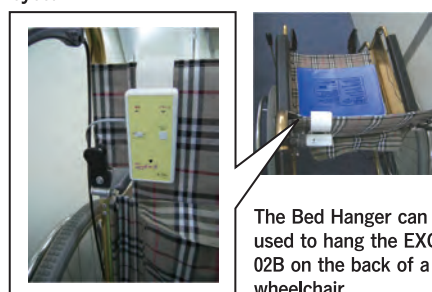To function as the in-room alert system with the Bed Sensor

Nurse Call Connection Panel

EXC-02B

To function as the wheelchair alert system

The Bed Hanger can be used to hang the EXC-02B on the back of a wheelchair.

Optional Accessories

We have a variety of nurse call connector cables and adaptors to meet your needs.

Nurse call connector cable for MS-3100B: MS-03
$30

This connector cable can be connected to MS-3100B and an Excel's Adaptor box.

Extension cable for 2P metal connector: CC06
$30

This an extension cable for 2P metal connector. The normal length of the cable is 2m; however, the length can be customized for a longer length.

Modular jack to 3.5 mm mini plug adaptor: CC09
$15

This adaptor can be connected to a detection sensor with a modular jack and to a 3.5 mm mini plug.

2P metal connector to 3P metal connector adaptor: CC11
$30

This adaptor can be connected to a detection sensor with a 2P metal connector and to a 3P metal connector.

Modular jack to 2P metal connector conversion adaptor: CC14
$20

This adaptor can be connected to a detection sensor with a modular jack and to a 2P metal connector.

3.5 mini plug to 2P metal connector conversion adaptor: CC16
$25

This adaptor can be connected to a detection sensor with 3.5 mini plug and to a 2P metal connector.

Hybrid Sensor cable for Modular jack CC57-1
$15

This cable can be connected to a hybrid detection sensor and to a modular jack.

Nurse call connector cable for EXC-02: CC02
$25

This connector cable can be connected to EXC-02 and an Excel's

2P metal connector to modular adaptor: CC05
$25

This adaptor can be connected to a detection sensor with a 2P metal connector and to a modular jack.

RCA cable to 2P metal connector conversion adaptor: CC08
$25

This adaptor can be used to connect a RCA cable and 2P metal connector

2P metal connector to 3.5 mini plug adaptor: CC10
$15

This adaptor can be connected to a detection sensor with a 2P metal connector and to a 3.5 mm mini plug.

3.5 mini plug to modular conversion adaptor: CC13
$20

This adaptor can be connected to a detection sensor with 3.5 mini plug and to a modular jack.

2P metal connector to RCA cable adaptor: CC15
$25

This adaptor can be used to connect a 2P metal connector and a RCA cable.

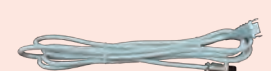### Modular jack to RCA cable conversion adaptor: CC17
$15

This adaptor can be connected to a detection sensor with a modular jack and to a RCA cable

Hybrid Sensor cable for 2P metal connector: CC57-2
$20

This cable can be connected to a hybrid detection sensor and to a 2P metal connector.

Adaptor Boxes for a Nurse Call System

The various caring sensors from Excel Engineering can be connected with othercompetitors' existing nurse call systems through the adaptor box.

*This product is only compatible to Excel Engineering sensors
* If you have an old nurse call system the adapter box may not be compatible. An additional fabrication fee may be applied.

Adapter Box for a wired connection

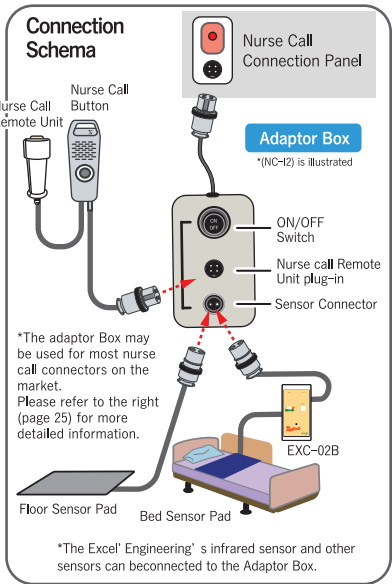*NC-12-A

Adapter Box NC-10~

Type A $55
Type B $70

The adapter box can be turned off/on from the switch located on the top of the adapter.

*An optional bed hanger (BH-1) is available (the adaptor can be hung from the bed rail)
BH-1

Connection Schema

Nurse Call Connection Panel

Nurse Call Remote Unit
Nurse Call Button

Adaptor Box
*(NC-12) is illustrated

ON/OFF Switch
Nurse call Remote Unit plug-in
Sensor Connector

*The adaptor Box may be used for most nurse call connectors on the market. Please refer to the right (page 25) for more detailed information.

EXC-02B

Floor Sensor Pad   Bed Sensor Pad

*The Excel' Engineering' s infrared sensor and other sensors can be connected to the Adaptor Box.

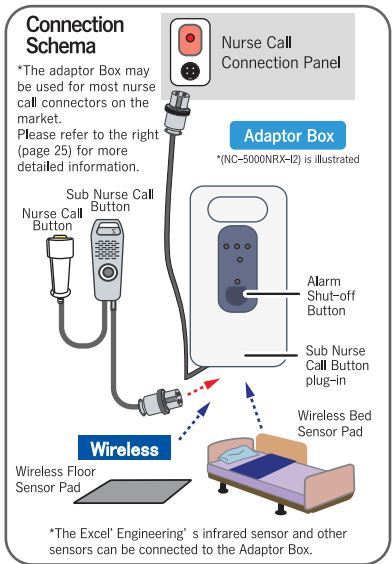## Adapter Box for a wireless connection Type A

*NC-5000NRX-12

Wireless Adapter Box
NC-5000NRX-10~

Type A $150
Type B $160

This wireless adapter box has capabilities to receive detection signals and connect to an existing nurse call system.
The wireless environment will help in creating a safe (no tripping over the cords) and more accessible caring environment.

Connection Schema

*The adaptor Box may be used for most nurse call connectors on the market. Please refer to the right (page 25) for more detailed information.

Nurse Call Connection Panel

Adaptor Box
*(NC-5000NRX-12) is illustrated

Sub Nurse Call Button
Nurse Call Button

Alarm Shut-off Button

Sub Nurse Call Button plug-in

Wireless Bed Sensor Pad

Wireless

Wireless Floor Sensor Pad

*The Excel' Engineering' s infrared sensor and other sensors can be connected to the Adaptor Box.

Please refer to the following major nurse call system manufacturing companies' names and the type of nurse call connector pin to identify your specific nurse call connector pin.
There are nurse call connector pins that may not be able to connect to Excel's adaptor box.

1. Nurse Call Connector Pins made by Aiphone

Type:	A	A	A	A	A	A	A	B	B	B	B	A
Adaptor Box	NC-10	NC-11	NC-16	NC-15	NC-13-NEX	NC-13-NCX	NC-13-NBX	NC-14	NC-17	NC-18	NC-19	NC-22
Product #:	2P Regular	3P Regular	IP Plug	AiPhone / Flat 2P	AiPhone / 4P NE model	AiPhone / 4P NC model	AiPhone / 4P NB model	AiPhone / Pla 5P	AiPhone / Din5P	AiPhone / for NFX option 3	AiPhone / Din6P	AiPhone / Vi-nurse

Adaptor shapes

UAR-8
UBR-8

Please refer to the connection site of your nurse call system for identifying your needs.
NE-RC, NE-RC/A: 5-E
NCRC: 5-C
NB-RC/A: 5-B (there are some types that may not be compatible)

UA-SB8
UB-SB8

NFR-8   Option Plug

NF-SB
NF-SB-TT

An optional input cord may be required (sold separately)

2. Nurse Call Connector Pins made by CareCom

Type:	A	A	A	A	A	B	A
Adaptor Box	NC-10	NC-11	NC-16	NC-12-A	NC-12-D	NC-23	NC-24
Product #:	2P Regular	3P Regular	IP Plug	CareCom 4P analog	CareCom 4P digital	Well File: CareCom6P	CareComP/5P

Adaptor shapes

*Please contact us if you cannot identify which 4P connection pin is yours.

No "Z" appears here. The color is ivory.
BA-450F,BA-501
BA-440F,BA-511

A "Z" appears here. The color is grey.
BA-501Z
BA-511Z

BA-601WZ
BA-611WZ
RB-826WZ

RB-830Z

*CareCom's "Well" series nurse call system requires a specific plug-in.
The model number for the plug-in is BB-301WZ-2P/W6P-NC.

3. Nurse Call Connector Pins made by Panasonic

Type:	A	A	B
Adaptor Box	NC-20	NC-16	NC-21
Product #:	Panasonic/ 2P grip button	IP Plug	Panasonic/ 2P handset

Adaptor shapes

If your nurse call connector pin is not listed, please contact us for consultation.
There are nurse call connector pins that may not be able to connect to the Excel's adaptor box.

Adaptor Boxes for a Nurse Call System

SRH9000 product features: This is a wireless wandering/departure detection sensor system for individuals with dementia. When a care recipient's departure from the bed is detected the receiver starts an alarm or a melody sound to notify a caregiver. Since the system uses a 920 MHz radio transmission frequency with LoRa (Long Range Radio) technology, the wireless signal range could reach up to several kilometers in a straight line, and 100-300m within a building without a repeater.

SRH9000 with Base Receiver Package
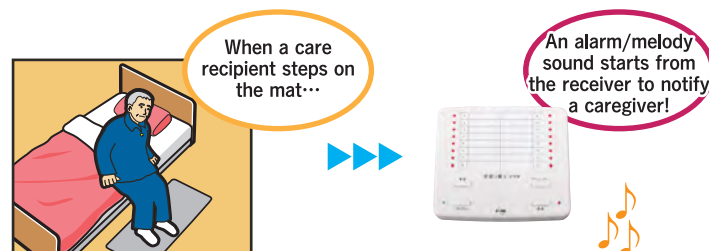
When a care recipient steps on the mat…

An alarm/melody sound starts from the receiver to notify a caregiver!

When a care recipient gets up…

An alarm/melody sound starts from the receiver to notify a caregiver!

When a care recipient steps on the mat an alarm/melody sound starts from the receiver to notify a caregiver.

When a care recipient gets up on the bed an alarm/melody sound starts from the receiver to notify a caregiver.

Special features: Use the sensor mat that serves as a bed and a floor sensor. A switch located on the transmitter can change the functions of the sensor either "getting up from the bed" or "leaving the bed" detection.

390 × 850 × 3.5mm   Transmitter   Base Receiver

SRH9000 $335

TAIS Code：00682-000073

This package includes: One sensor mat, one transmitter, and one Base Receiver

SRH9000 with Portable Receiver Package

When a care recipient steps on the mat…

An alarm/melody sound starts from the receiver to notify a caregiver!

When a care recipient gets up…

An alarm/melody sound starts from the receiver to notify a caregiver!

When a care recipient steps on the mat an alarm/melody sound starts from the receiver to notify a caregiver.

When a care recipient gets up on the bed an alarm/melody sound starts from the receiver to notify a caregiver.

Special features: Use the sensor mat that serves as a bed and a floor sensor. A switch located on the transmitter can change the functions of the sensor either "getting up from the bed" or "leaving the bed" detection.
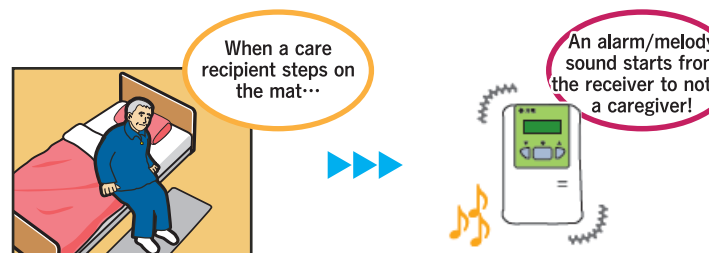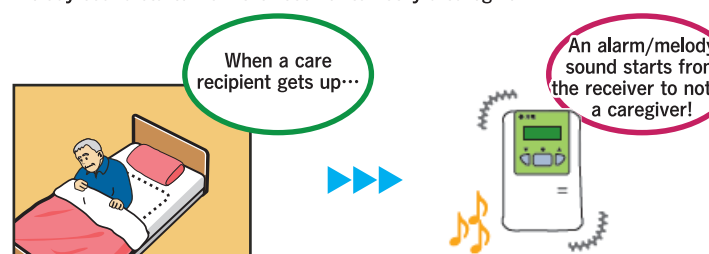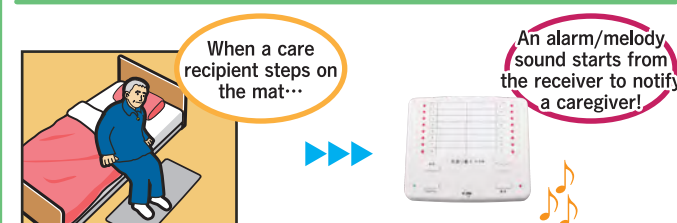
390 × 850 × 3.5mm   Transmitter   Portable Receiver

SRH9000-P   325

TAIS Code：00682-000072

This package includes: One Sensor mat, one transmitter, and one portable receiver

---

SH9000 with FloorSensor & Base Receiver Package

When a care recipient steps on the mat…

An alarm/melody sound starts from the receiver to notify a caregiver!

When a care recipient steps on the sensor an alarm/melody sound starts from the receiver to notify a caregiver.

SH9000 $320

TAIS Code：00682-000066

This package includes: One Floor sensor, one transmitter, and one base receiver

450 × 800 × 4.5mm

SH9000 with Bed Sensor & Base Receiver Package

When a care recipient gets up…

An alarm/melody sound starts from the receiver to notify a caregiver!

When a care recipient gets up on the bed an alarm/melody sound starts from the receiver to notify a caregiver.

SR9000 $305

TAIS Code：00682-000065

This package includes: One Bed sensor, one transmitter, and one base receiver

390 × 850 × 1.5mm

SH9000 with Floor Sensor & Portable Receiver Package

When a care recipient steps on the mat…

An alarm/melody sound starts from the receiver to notify a caregiver!

When a care recipient steps on the sensor an alarm/melody sound starts from the receiver to notify a caregiver.

SH9000-P $310

TAIS Code：00682-000068

This package includes: One Floor sensor, one transmitter, and one portable receiver

450 × 800 × 4.5mm

SH9000 with Bed Sensor & Portable Receiver Package

When a care recipient gets up…

An alarm/melody sound starts from the receiver to notify a caregiver!

When a care recipient gets up on the bed an alarm/melody sound starts from the receiver to notify a caregiver.

SR9000-P $300

TAIS Code：00682-000067

This package includes: One Bed sensor, one transmitter, and one portable receiver

390 × 850 × 1.5mm

WSR9000 with a Plate Sensor/Base Receiver Package

When a care recipient sits on the sensor…

An alarm/melody sound starts from the receiver to notify a caregiver!

When a care recipient sits on the sensor an alarm/melody sound starts from the receiver to notify a caregiver.

SR9000-PS $345

TAIS Code：00682-000074

This package includes: One Plate sensor, one transmitter, and one base receiver

SR9000 with a Plate Sensor/Portable Receiver Package

When a care recipient sits on the sensor…

An alarm/melody sound starts from the receiver to notify a caregiver!

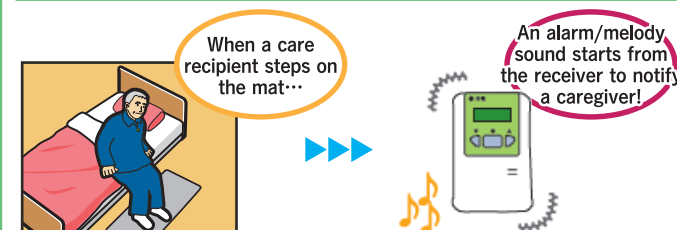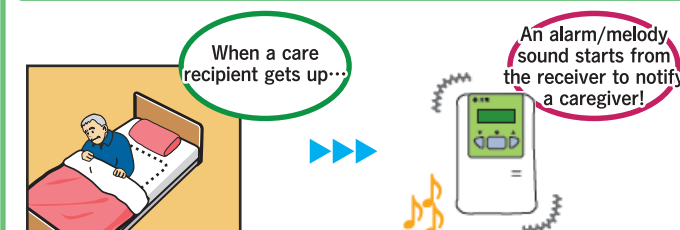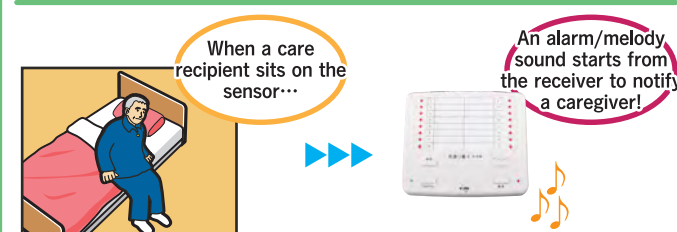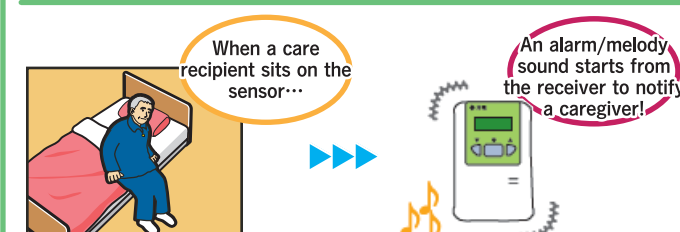When a care recipient sits on the sensor an alarm/melody sound starts from the receiver to notify a caregiver.

SR9000-PS-P $335

TAIS Code：00682-000071

This package includes: One Plate sensor, one transmitter, and one portable receiver

SH6900: This is a long-term care insurance rental approved product

SH6900 series is a long-term care insurance rental approved product.
SH6900 detects an individual's departure from the bed and departure from the room,
and helps toprevent falling accidents.

SH6900 with Infrared Sensor to detect both "getting up from the bed" or "leaving the bed" activities.

Transmitter   Receiver

· This wireless system' s network coverage reaches up to approximately 100m in a straight line.
· The batteries are rechargeable. When the batteries need to be recharged the device informs a user.
· The Wandering/Departure Detection sensors can be registered as desired.
· The system is wireless, and no cables are required to install.

Specifications:
Wireless Transmission Method: 2.4 GHz Digital transmission Receiver (155g)
Dimensions: 125 x 90 x 23mm
Power: Lithium-Ion Polymer rechargeable battery built-in and an AC adapter included Transmitter (205g)
Dimensions: 98 x 89 x 85mm
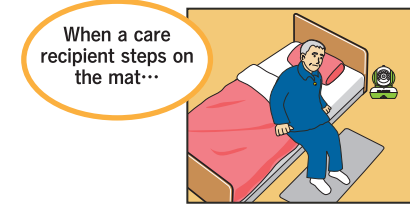Power: Lithium-Ion Polymer rechargeable battery built-in and an AC adapter included
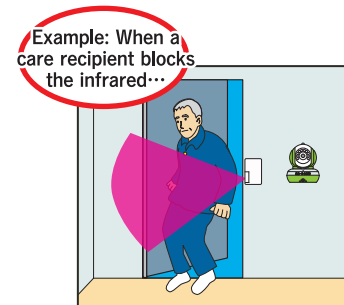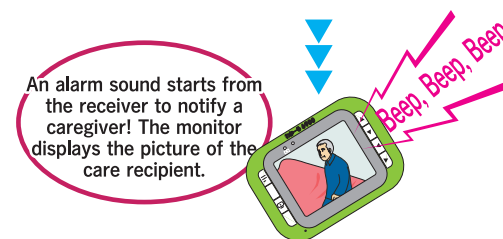
Example: When a care recipient blocks the infrared…
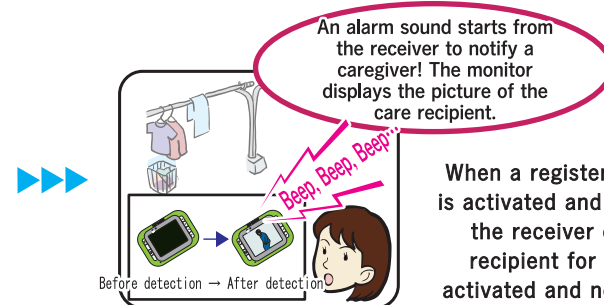
An alarm sound starts from the receiver to notify a caregiver! The monitor displays the picture of the care recipient.

Beep, Beep, Beep…

Before detection → After detection

When a registered detection sensor in the transmitter is activated and the alarm sound starts on the receiver the receiver only displays the picture of the care recipient for 30 seconds. If the transmitter is not activated and no alarm sound starts the receiver does not display the picture of the care recipient.

SH6900 with Infrared Sensor Package

When a care recipient blocks the infrared…

An alarm sound starts from the receiver to notify a caregiver! The monitor displays the picture of the care recipient.

Beep, Beep, Beep…

38 x 109 x 69 mm

When a care recipient blocks the infrared notify a caregiver. It is recommended to install the Infrared sensor by the bed or the entrance door of the care recipient's room.

JAN Code：4582107671711   TAIS Code：00682-000034

SH6900-MS2 $295

SH6900 with Floor Sensor Package

When a care recipient steps on the mat…

An alarm sound starts from the receiver to notify a caregiver! The monitor displays the picture of the care recipient.

Beep, Beep, Beep…

When a care recipient steps on the mat notify a caregiver. It is recommended to install the Floor sensor by the bed or the entrance door of the care recipient's room.

JAN Code：4582107671100   TAIS Code：00682-000035

SH6900 $275

Antibacterial   Water-Resistant   Bi-fold

450 x 800 x 4.5 mm

SH6900 with Bed Sensor Package
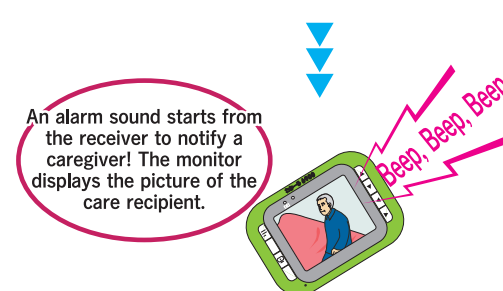
When a care recipient gets up…

An alarm sound starts from the receiver to notify a caregiver! The monitor displays the picture of the care recipient.

Beep, Beep, Beep…

When a care recipient gets up on the mat notify a caregiver. It is recommended to install the Bed sensor between a mattress pad and mattress just under the care recipient's shoulder blades when he/she lays down.

JAN Code：4582107671117   TAIS Code：00682-000036

SR6900 $260

Antibacterial   Water-Resistant   Bi-fold
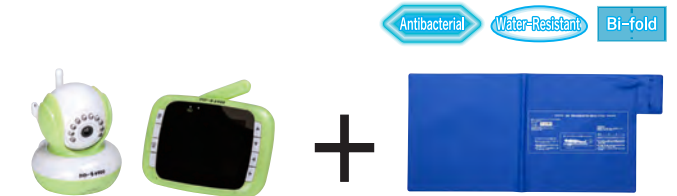
390 x 850 x1.5 mm

SH6900 with Bed/Floor Sensor Package
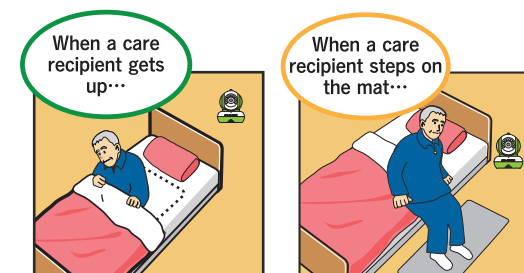
When a care recipient gets up…

When a care recipient steps on the mat…
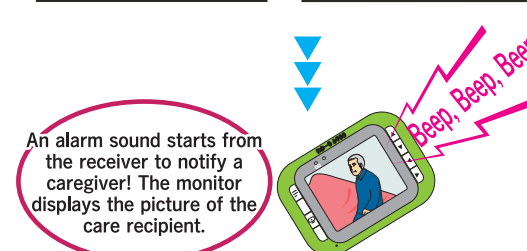
An alarm sound starts from the receiver to notify a caregiver! The monitor displays the picture of the care recipient.

Beep, Beep, Beep…

This sensor mat serves as a bed and a floor sensor (i.e., "getting up from the bed" or "leaving the bed" detection).

JAN Code：4582107671643   TAIS Code：00682-000037

SRH6900-LS $295

Antibacterial   Water-Resistant   Bi-fold

390 x 850x 3.5 mm

Homecare Wireless Nurse Call System: NRM-6900

Transmitter/IP Camera　　　Receiver/Monitor

NRM-6900　**$170**

JAN Code : 4582107671575

Could I get a cup of tea please?

Could I get a cup of tea please?

Certainly. I will be right there.
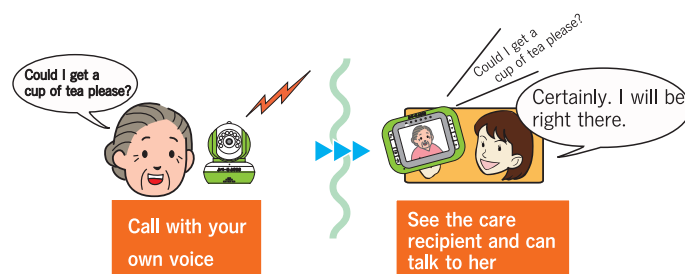
Call with your own voice

See the care recipient and can talk to her

Rechargeable

Voice and Live Video

Option available: Long-lasting detection sensor

Option available: Infrared Sensor

Option available: Wandering prevention sensor

Option available: Departure detection Sensor

・ This is a wireless video monitoring system.
・ The wireless signal range reaches approximately 100m in a straight line.
*When a receiver leaves outside of the wireless signal reaching range the receiver displays a message and starts an alarm sound.
・ Various detection sensors can be connected to this system wirelessly.
・ The directions and angles of the transmitter/IP camera can be adjusted from the receiver/monitor.
・ There is a thermal sensor built in.
・ It is a 2-way wireless voice communication device.
・ Transmitter/IP camera is rechargeable.

Time taken to be fully charged: approximately 3 hours for both receiver and transmitter when the devices are turned off.
Battery life when it is fully charged is approximately 4 hours for the receiver/monitor and 1.5 hours for the transmitter

Specifications:
Wireless Transmission Method: 2.4 GHz Digital transmission
Receiver (155g including a battery)
Dimensions: 125 x 90 x 23mm
Power: Lithium-Ion Polymer rechargeable battery built-in and an AC adapter included
Transmitter (205g including a battery)
Dimensions: 98 x 89 x 85mm
Power: Lithium-Ion Polymer rechargeable battery built-in and an AC adapter included

Detection Sensor Options

Infrared Sensor Package　SNRM6900-MS2

38 x 109 x 69mm

When a care recipient opens the door the sensor is activated

●**Floor Sensor Package**　SNRM6900-FS

450 x 800 x 4.5mm

When a care recipient steps on the sensor is activated
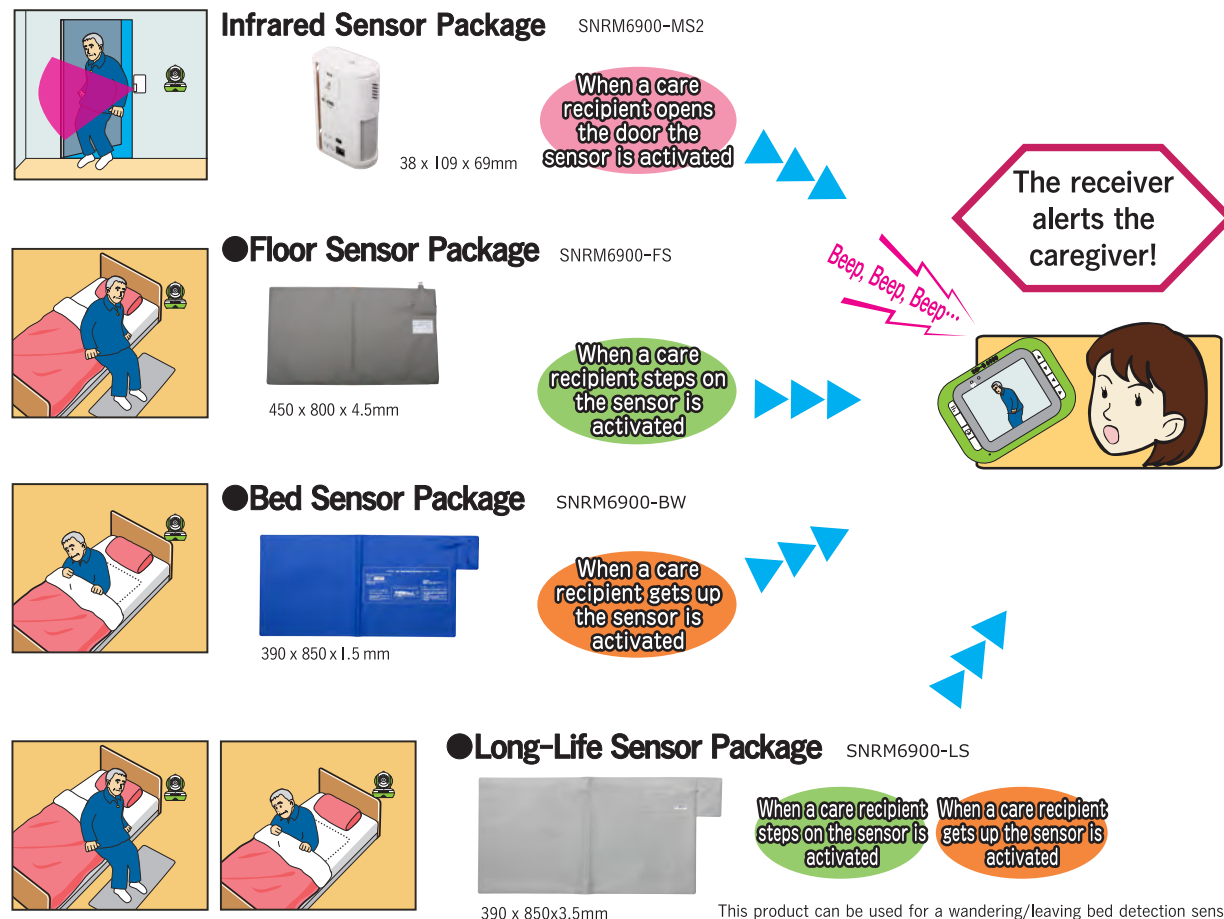
Beep, Beep, Beep...

The receiver alerts the caregiver!

●**Bed Sensor Package**　SNRM6900-BW

390 x 850 x 1.5 mm

When a care recipient gets up the sensor is activated

●**Long-Life Sensor Package**　SNRM6900-LS

390 x 850x3.5mm

When a care recipient steps on the sensor is activated

When a care recipient gets up the sensor is activated

This product can be used for a wandering/leaving bed detection sensor

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Homecare Wireless Nurse Call System HT-150

・ Additional receivers can be added. Each capable of having up to 45 transmitters
・ This portable receiver has a strap to prevent dropping.
・ Each transmitter number is displayed.

HT-150MRX　**$50**

*Transmitter is not included　　JAN Code : 4582107671568

Additional transmitter

HT-150TX　**$15**

JAN Code : 4582107671384

Portable Call Button

When the button is depressed…

A caregiver is alerted.

Beep, Beep, Beep…
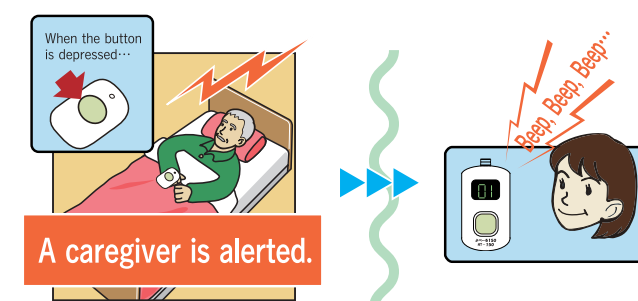
Specifications
Wireless Transmission Method: Specified low power radio frequency Easy replacement battery - The transmitter uses

a coin battery (CR2032).
Transmitter (weight: 25g)
Dimensions: 35 x 15 x 62mm
Power: Coin battery (CR2032) included

Receiver (weight: 129g)
Dimensions: 70 x 125 x 60mm
Power: A built-in battery and an AC adapter included

EXC-02S-B: On-site alert system for monitoring an individual departing from a bed or a wheelchair

● This is a long-term care insurance rental approved product
● This is an on-site alert device. It alerts a care recipient when he or she leaves from the detection sensor mat
● The detection sensor can be used in a wheelchair

EXC-02S-B　**$200**

TAIS Code : 00682-000083

Product Specifications

Application	Call Request		Monitor displays a care recipient and sensor detection	
Name of Product	よべーる150		よべーる6900	
	Multi Receivers	Transmitter	Receivers	Transmitter
Product Number	HT-150		NRM-6900	
	HT-150MRX	HT-150TX	NRM-6900RX	NRM-6900TX
Price				
Alert Method	――	Push button	――	Floor sensor / Bed Sensor / Infrared sensor
Alert Sound	Alarm Sound	――	Alarm Sound	――
Alert Sound Levels	4 Levels	――	Fixed	――
Continuous Ringing Time	Approx. 20sec	――	Approx. 30sec	――
Signal Transmission Range (straight line)	Approx. 50m		Approx. 100m	
Input	――	――	――	――
Power	AC adapter (DC5V/50mA)/designated rechargeable battery	One Coin battery CR2032 (3V)	AC adapter (DC5V/1A)/lithium ion polymer rechargeable battery	AC adapter (DC5V/1A)/lithium ion polymer rechargeable battery
Recharging Time	Approx. 8 hours		Approx. 3 hours	Approx. 3 hours
Battery Life	Approx. 30 hours	Approx. 2 years	Approx. 4 hours	Approx. 1.5 hours
Low Battery Indicator	Flashing the receiving light (every 5 sec)	Transmission light becomes dim	Displays a message on the screen	Power LED light flashes green
Accessories	――	――	One cable for monitor display (output)	
Dimensions (mm)	70×60×125	35×15×62	125×90×23	98×89×85
Weight (g)	129	25	155	205
Technical Number	――	208-160024	208-170018	
Materials	ABS			

Application	Wandering Detection	Monitoring camera
Product Name	iBaby Senior	iBaby Care
Product Number	RH7100	RH7000
Price		
Alert Method	Alert Sound	From Smartphone
Sound Volume Adjustment	None	
Sensor	Motion	Motion Noise Temperature Humidity
Signal Processing Method	Image Processing	Image Processing & Other
Additional Sensors	Available	Available
External Signal Transmission	Modulation method: GFSK Signal frequency bandwidth: 2.4GHz	Modulation method: GFSK Signal frequency bandwidth: 2.4GHz
Options	Internet connection	
Dimensions	165×165×165	165×165×165
Weight	430g	430g
Other		Wi-Fi environment required

Product Name	Cordless Infrared Sensor	Transmitter for sensors
Product Number	RH-5000TXIR	RH-5000TXBF
Price		
Alert Function	――	――
Alert Volume	――	――
Continuous Ringing Time	――	――
Display	――	Alarm light
Input	――	3.5φ stereo jack
Receiving Channel	――	――
Wireless Specifications	Modulation method: GFSK Signal frequency bandwidth: 2.4GHz	
Power	AC adapter (DC9V/300mA)/9V alkaline battery	One Coin battery CR2032 (3V)
Battery Life	Approx. 1 year	
Transmitter Battery Life Alert	Alarm notification	――
Accessories	――	――
Dimensions (mm)	38×109×69	41×69×9
Weight (g)	140	23
Materials	ABS	

Functions	Monitor displays a care recipient and sensor detection		Sensor detection		
Product Name	わかーる6900		わかーる9000		
	Receiver	Transmitter	Base Receiver	Portable Receiver	Transmitter
Product Number	RH-6900		RH-9000RX	RH-9000PRX	RH-9000TXBF
	RH-6900RX	RH-6900TX			
Price					
Alert Method	――	Floor sensor / Bed se nsor / Infrared sensor	Sound Light	Sound Vibration	――
Alert Volume	Alarm sound	――	――	――	――
Alert Volume Adjustment	Fixed	――	12 levels	Loud and quiet	――
Continuous Ringing Time	Approx. 30sec	――	Until reset		――
Signal Transmission Range (straight line)	約100m				――
Input					3.5φ stereo jack
Power	AC adapter (DC5V/1A)/lithium ion polymer rechargeable battery	AC adapter (DC5V/1A)/lithium ion polymer rechargeable battery	AC adapter (DC9V/300mA)	AC adapter (DC6V/300mA)/lithium ion polymer rechargeable battery	2 AAA batteries
Recharging Time	Approx. 3 hours	Approx. 3 hours	――	――	――
Battery Life	Approx. 4 hours	Approx. 1.5 hours	――	――	Approx. 1 year
Low Battery Indicator	Display on the screen	Power LED light flashes green	Alarm light flashes	Display on the screen	Alarm light flashes
Dimensions (mm)	125×90×23	98×89×85	160×140×30	60×91×20	50×85×18
Weight (g)	155	205	252	68	56
Technical Number	208-170015				――
材 質	ABS				

System Name	NC5000 Wireless Nurse Call System								
Name of Product	Base Receiver	Portable Receiver	Adapter Box	Call Button	Mini Transmitter	Door Sensor	Magnet Sensor Transmitter	Repeater	Mini Repeater
Product Number	NC-5000RX(C)	NC-5000PRX2	NC-5000NRX-10~22	NC-5000TXPB	NC-5000TXBF	NC-5000TXDR	NC-5000TXMG	NC-5000RP(C)	NC-5000RP2
Price									
Alert Function	Sound & Light	Sound & Vibration	Nurse Call Connection	――	――	――	――		――
Alert Sound Volume	12 levels	Loud & quiet	――						
Continuous Ringing Time	Until reset								
Display	Power light Alarm light	Power light Monitor display	Power light 3 transmitter lights Pause light	Alarm light		Alarm light	Transmitter light	Power light Alarm light	Alarm light
Input	――	――	――	Push button	3.5φ stereo jack	――	――	――	――
Receiving Channels	16	63	3	――					
Wireless Network Specifications	Modulation method: GFSK Signal frequency bandwidth: 2.4GHz								
Power	AC adapter (DC9V/200mA)	AC adapter (DC6V/300mA)/lithium ion polymer rechargeable battery	AC adapter (DC5V/300mA)	2 AAA batteries	One Coin battery CR2032 (3V)	One Coin battery CR2032 (3V)	2 AAA batteries	AC adapter (DC9V/200mA)	Electrical outlet connection
Battery Life				Approx. 1 year		Approx. 1 year	Approx. 1 year		
Transmitter Battery Life Alert	Flashing alarm light	Display on the screen	Flashing transmitter light	Flashing alarm light		Flashing alarm light	Flashing transmitter light	――	――
Accessories	Whip antenna	Belt clip strap	Bed hanger	――	――	Magnet	Hanger	Whip antenna	
Dimensions	160×140×30	60×91×20	82×157×33	50×85×18	41×69×9	41×69×9	62×31×111	160×140×30	77×86×37
Weight	252	68	200	56	23	23	140	240	90
Materials	Housing:ABS								

System Name	NC9000 Wireless Nurse Call System				
Product Name	Base Receiver	Portable Receiver	Adapter Box	Transmitter	Magnet Sensor Transmitter
Product Number	RH-9000RX	RH-9000PRX	NC-9000GW	RH-9000TXBF	NC-9000TXMG
Price					
Alert Function	Sound & light	Sound & vibration	――	――	――
Alert Sound Volume	10 levels	Loud & quiet	――	――	――
Continuous Ringing Time	Until reset				
Display	Power light Alarm light	Charging light & display	Power light Alarm light	Alarm light	Transmitter light
Input	――	――	――	3.5φ stereo jack	
Receiving Channels	16	100			
Wireless Network Specifications	Signal frequency bandwidth: 9200MHz				
Power	AC adapter (DC5V/300mA)	AC adapter (DC6V/300mA)/lithium ion polymer rechargeable battery	AC adapter (DC5V/300mA)	2 AAA batteries	2 AA batteries
Battery Life				Approx. 1 year	
Transmitter Battery Life Alert	Flashing alarm light	Display on the screen	――	Flashing alarm light	Flashing transmitter light
Accessories	――	Belt clip strap	――	――	Hanger
Dimensions (mm)	160×140×30	60×91×20	160×140×30	50×85×18	62×31×111
Weight (g)	252	68	240	56	140
Materials	Housing:ABS				

System Name	NC5000	NC9000
Product Name	Nurse call button	Diaper sensor transmitter
Product Number	NC-5000TXNCB	NC-5000TXWA
Price		
Input	Push button	Metal clamp
Wireless Network Specifications	Modulation method: GFSK Signal frequency bandwidth: 2.4GHz	
Battery Life	Approx. 1 year	Approx. 1 year
Power	One Coin battery CR2032 (3V)	One Coin battery CR2032 (3V)
Accessories	Strap	――
Dimensions (mm)	112×50×30	43×53×13
Weight (g)	44	29
Materials	Housing: ABS	Housing: ABS

Product Name	Magnet sensor
Product Number	EMG-01
Price	
Alert Function	Sound
Alert Volume	High: approx. 95dBA Low: approx. 85dBA
Continuous Ringing Time	Until magnet reattaches
Display	Battery life display light
Power	3 AA batteries
Battery Life	Approx. 1 year
Low Battery Display	Flashing battery life display light
Accessories	Hanger
Dimensions (mm)	62×31×111
Weight (g)	160
Materials	Housing: ABS

Product Name	Hybrid Floor Sensor Size: Smal	Hybrid Floor Sensor Size: Medium	Hybrid Floor Sensor Size: Large	Cordless Bed Sensor Size: Wide	Bed Sensor Size: Wide	Bed Sensor Size: Regular
Product Number	EFM-57/S-C	EFM-57/M-C	EFM-57/L-C	EPB58-W-2	EPB54-W-1	EPB54
Price						
Output	3.5φ mono plug / 2P metal connector / 4/4 modular plug			3.5φ mono plug	4/4 modular plug	
Dimensions	450×800×4.5	600×900×4.5	600×1200×4.5	390×850×1.5	390×767×6.5	125×765×1.5
Weight	880	1550	2200	500	540	200
Materials	PVC					
Cable Length (mm)	2500			——		2000

Product Name	Small Cordless Side-Rail Sensor Pad	Cordless Side-Rail Sensor Pad	Cordless Long-Life Detection Mat	Long-Life Detection Mat Wheel	Wheel Chair Sensor Pad	Toilet Sensor
Product Number	EPB58-SR/S	EPB58-SR/L	EBF-55	EBF-51/S-1	EPC53	ETP56-5
Price						
Output	3.5φ mono plug			4/4 modular plug		3.5φ mono plug
Dimensions	170×280×8	260×700×8	390×850×3.5	381×765×3.5	354×382×6.5	82×38×2
Weight	148	490	1200		220	28
Materials	PVC					
Cable Length (mm)	——		2000		750	800

Product Name	Infrared Sensor	Infrared Sensor MS3000 Transmitter built in	Infrared Sensor MS9000 Transmitter built in
Product Number	MS-3100D	MS-3100E	NC-9000TXMS
Price			
Alert Function	Nurse call		
Display	LED lights: Power, Detection, Alert		
Detection Capacity	Area sensor: approx. 5m, 30 degrees / Infrared sensors: approx. 1.3-1.75m, 3 beams		
Wireless Specifications	——	Modulation method: GFSK Signal frequency bandwidth: 2.4GHz	Signal frequency bandwidth: 9200MHz
Output	Make contact		
Power	AC adapter (DC5V/300mA)		
Accessories	NC connection cord	——	
Dimensions	155×110×40		
Weight	300	310	310
Materials	Housing：ABS		

Product Name	Wired Nurse Call Activation/ In-room Alert System
Product Number	EXC-02B
Price	
Alert Function	Sound, light, nurse call activation
Alert Volume	Loud: approx. 100dBA Medium: approx. 85dBA
Continuous Ringing Time	Until reset
Display	Power light, Alarm
Input	4/4 modular plug
Low Battery Indicator	6φ mono jack Contact pressure resist: 60V Contact current: 400mA ON resistance: 7Ω
Power	AC adapter (DC6V/100mA) /2 AAA batteries
Battery Life	Approx. 1 year
Low Battery Indicator	Flashing alarm light
Accessories	Bed hanger
Dimensions (mm)	60 x 25 x 120
Weight (g)	113
Materials	Housing: ABS

Functions	Sensor Accessories					
Product Name	Nurse call connection cable	Long stand	Short stand	Bed holder	Adjustable angle connector	2PNC cable
Product Number	CC02	MS-3000-2	MS-3000-3	BH-2	PT-1	MS-03
Price						
Output	2P metal connector	——	——	——	——	2P metal connector
Dimensions (mm)	——	Height: 600-1100	Height: 600-1100	100 x 170 x70	41 x 68	——
Weight (g)	70	2700	1400	165	68	90
Materials	——	Fe	Fe	ABS	——	——
Cable Length (mm)	2000					2000

About Our Company

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Name of Company: Excel Engineering Co., LTD
Address: Seika Building 9F, 2-12-14 Ogawamachi, Chiyoda-ku, Tokyo, Japan 101-0052
Phone: 03-5280-7120   Fax: 03-5280-7123
Date Founded: December 1996
Capital : 50 million yen
President and CEO: Katsunori Yasuoka
The banks that we do business with: Mitsubishi-TokyoUFI Bank Shintomicho branch, Mizuho Bank Kanda Ogawacho Branch, and Mitsui-Sumitomo Bank Kanda Branch

History

December, 1996	Excel Engineering Co., LTD was founded
February, 1997	Excel Engineering Hong Kong was founded
April, 1999	"Leaving from the bed" Detection Sensor was first sold
April, 2000	Act for Enforcement of the Long-Term Care Insurance Act
April, 2002	The Home Care Wireless Monitoring Systems NRM series and Wireless Diaper Sensor (WS-900) were first sold
May, 2002	"Departing from the bed" Twin-pad detection sensor package was first sold
June, 2003	Excel Engineering Osaka Branch was opened NRM190 was first sold
March, 2003	Excel Engineering main office was moved to Shintomi, Chuo-ku, Tokyo
October, 2004	Pad-Less Wheelchair Detection Sensor was first sold Wireless Nurse Call System was first sold
May, 2005	Excel Engineering main office was moved to Muromachi, Nihonbashi, Chuo-ku, Tokyo
October, 2005	Takamatsu branch was opened
October, 2006	Infrared Double Sensor was first sold
December, 2008	Wireless Nurse Call System (NC-5000) was first sold
April, 2009	Nagano Distribution Center was opened
January, 2014	Takamatsu office was relocated due to business expansion
October, 2014	Exhibited at the International Home Care & Rehabilitation Exhibition (H.C.R) for the 10th consecutive year
November, 2014	Exhibited at MEDICA trade Fair in Germany for the 5th consecutive year
March, 2015	Started repair service for care facility products at Nagano office
April, 2015	Established Yobe-ru CO., LTD which provided home care products
May, 2015	Contracted with Bio Silver CO., LTD to expand sales business for products related to "getting up from the bed" and "departing from the bed" detection system
April, 2016	Yobe-ru CO., LTD's home care product was first sold
October, 2016	Yobe-ru CO., LTD, Tokyo office was open
February, 2017	Contract with Bio Silver CO., LTD ended
May, 2017	Excel Engineering main office was moved to Kanda-Ogawamachi, Chiyoda-ku, Tokyo
April, 2018	Cloud-Based Total Care System was first sold
October,2018	NC9000 infrared detection sensor system was first sold

Company's Information

Excel Engineering Co., LTD.   http://www.excel-jpn.com
Headquarter/Tokyo Office: Seika Building 9F, 2-12-14 Ogawamachi, Chiyoda-ku, Tokyo, Japan 101-0052
Phone: 03-5280-7120   Fax: 03-5280-7123

Takamatsu Office: 681-1 Haze-Chou, Takamatsu, Kagawa, Japan 761-8054
Phone: 087-815-0805   Fax: 087-869-2701

Nagano Office (Facility Repair Department): 495-36 Akiwa-Toiya-Machi, Ueda, Nagano, Japan 386-0041
Phone: 0268-75-7140   Fax: 0268-75-7141

Yobe-ru Co., LTD. (Product Sale Department)   http://www.yobe-ru.jp
Headquarter/Tokyo Office: Seika Building 9F, 2-12-14 Ogawamachi, Chiyoda-ku, Tokyo, Japan 101-0052
Phone: 03-5280-7120   Fax: 03-5280-7123

Sales Division: 681-1 Haze-Chou, Takamatsu, Kagawa, Japan 761-8054
Phone: 087-815-0805   Fax: 087-869-2701

Distribution Center: 495-36 Akiwa-Toiya-Machi, Ueda, Nagano, Japan 386-0041
Phone: 0268-75-7140   Fax: 0268-75-7141

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