

Immedicate Care 180

NRM-180

Instruction Manual

Thank you for purchasing Immedicate Care 180. Please read this instruction manual thoroughly before using this product. Keep this manual for future references.

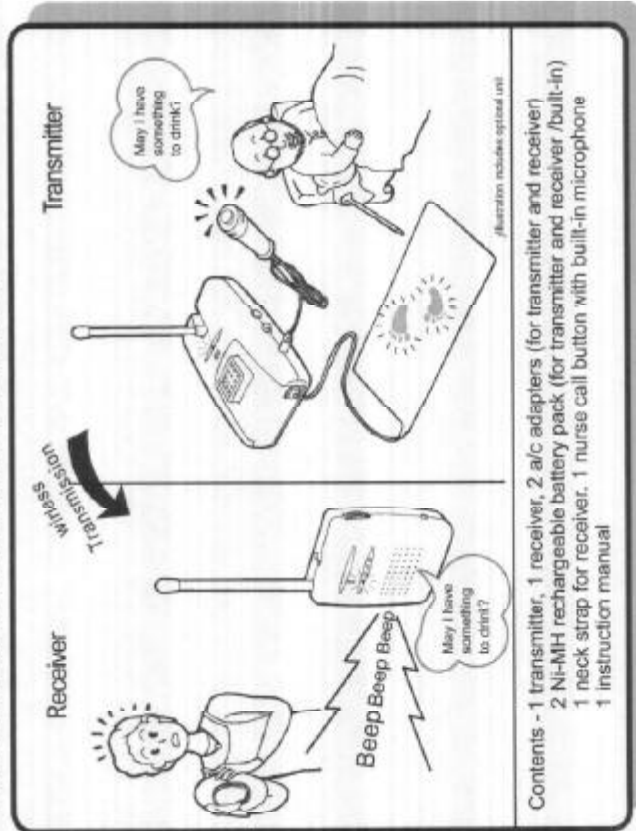


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Instructions

This product allows a patient to call for help from the bed using the radio transmission whenever help is needed.

This product is designed for use by individuals. Please do not use for business purposes such as clinics and hospital.

A

Product Usage

This product allows a patient to call for help from the bed using the radio transmission.

This product is designed for individual use only and it is not intended for business purposes such as clinics and hospital.

Main Features

This product aids in care giver monitoring a patient situation remotely.

Both receiver and transmitter have Ni-MH rechargeable battery inside. The receiver also features a backside belt clip and neck strap for ease of mobility. The transmitter works by the Ni-MH rechargeable battery even during power outages.

A patient places the remote nurse call button in handy place for ease of operation.

This remote nurse call button includes a built in microphone.

An accessory bed sensor pad (BSP-18), fall prevention adaptor allows to alarm the receiver when a patient is leaving the bed.

An optional floor sensor pad (FSP-100) allows care-givers to know when the care-receiver has wandered off.

Both transmitter and receiver have Ni-MH rechargeable batteries. Simply plug in the AC adaptor to charge.

Volume control on the receiver allows the user to adjust sound level.

LED Level Meter provides visual confirmation of the sound level.

Direct alarm function will keep the alarm sound level at maximum volume regardless of volume setting and will not stop till the receiver is turned off.

Safety Instruction

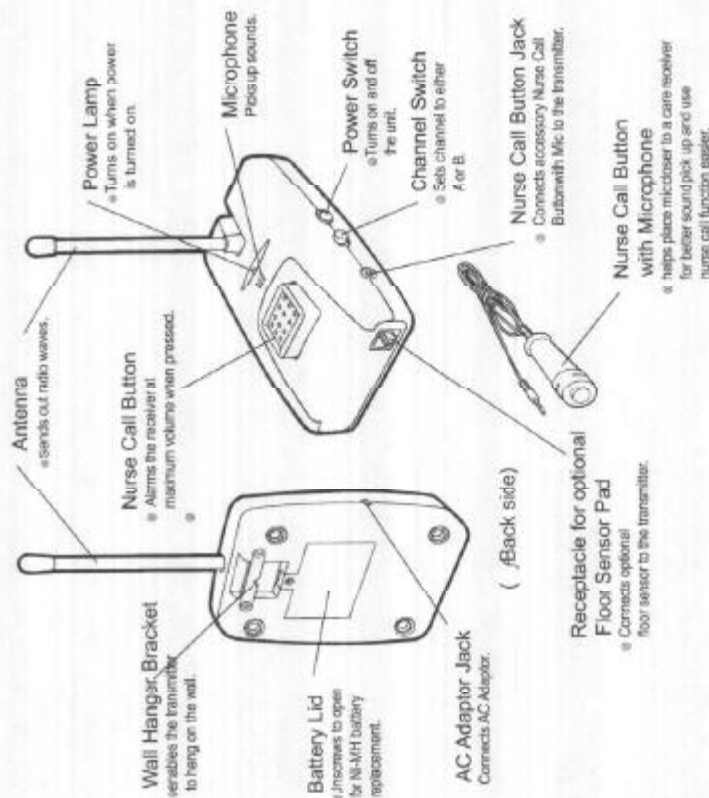
This product is developed to help care giver monitor the patients. Only the care-giver can guarantee the safety of the patients.

Caution	
Please transmitter and receiver securely (Chose a safe location). (Risk of injury and damage) Operate the product from only proper type of power source with correct appearance. ○○○○○○○○○○ (Risk of fire, electric shock and damage) Keep AC Adaptor and the cords out of the reach of children. (Risk of fire, electric shock and damage) Use only adaptions included (Risk of fire, electric shock and damage) The equipment is not waterproof, water resistant or dampproof. Do not use this product in high humidity places where water may be splashed and/or near bath, tub. You must not operate the product with wet hands. (Risk of electric shock and damage) Keep the product away from dust. (Risk of damage)	Keep the product away from fire and heat sources; (heater and cooking apparatus) (Risk of deformation and damage) Keep the product away from direct sun light. (Risk of deformation and damage) Operate the product between 23 and 86 F. (Risk of damage) Do not use the product while driving. (Risk of accident and damage) Do not place the speaker directly to ear. (Risk of hearing impaired) Do not drop the product. (Risk of damage) To reduce the risk of electric shock, do not alter or disassemble the product. (Risk of fire, electric shock and damage) Never operate the product near fire hospitals and factories which may use the precision instruments. (Risk of grave accidents due to the interferences to the instruments)
Caution	
Before starting monitor, be sure to establish signal receiving parameters and ranges. Structure of the building and environment of surroundings could shorten the receiving range. Signal may not pass through a steel door or iron from a basement resulting in adverse condition for the use. Upon the purchase of the product, Ni-MH batteries in transmitter and receiver may not be fully charged. For immediate use and recharging batteries, use AC adaptors. Charge the batteries for at least 12 hours before the use.	

A

Names and Functions (Transmitter)

Transmitter (Care Receiver)



Optional Accessory

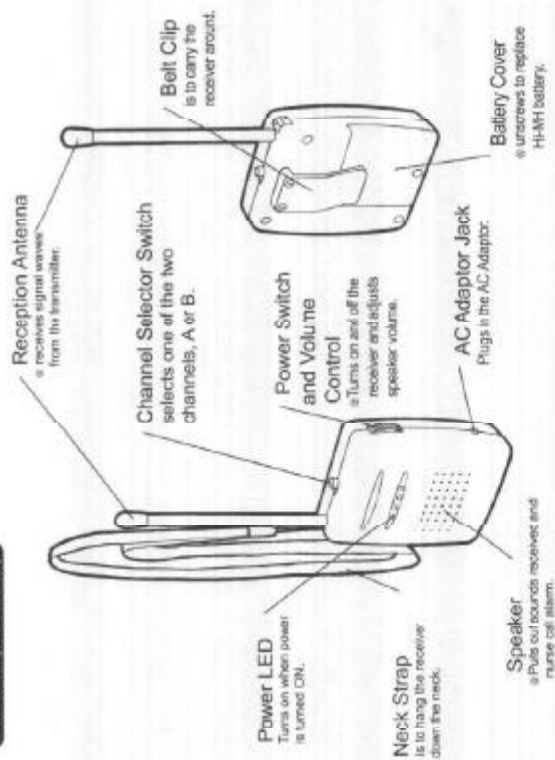
Optional Wander Monitor Floor Sensor Pad



B

Names and Functions (Receiver)

Receiver (Care Taker)



Before you start monitoring

Before using this product for the first time, be sure to establish usable range in your specific surroundings.

Make sure of proper reception, when the transmitter and/or receiver are placed in between or near the following objects. Those items may interfere transmission or receipt of radio signal. Confirm a proper reception before starting monitoring.

Steel Door or shutter.
Large metal objects and steel cabinets.



Caution

Read the following instructions and follow the procedures in Establishing Receiver's Range. You can establish reception range by yourself. Use the radio for the sound source and place it by the transmitter.

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Procedure for Use

1. Transmitter

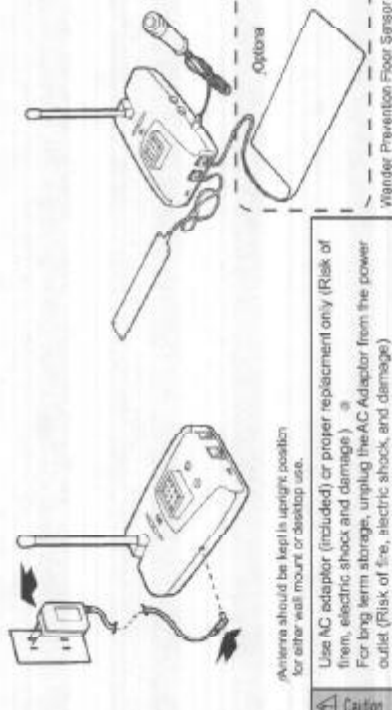
Placed in the room of patient

Part 1

Place the transmitter 3 to 10 ft. (within range microphone can pick up voice) away from a patient.
Depending on the conditions of the patient, connect the nurse call button to the transmitter (which disables microphones built in the transmitter). Nurse call button will work by remote or from base.
We recommend using AC Power, though it can be battery powered when fully charged. Always connect the transmitter to AC Power so the battery can stay charged in case of emergency such as power failure.

Connect AC Adaptor to the transmitter. Plug the AC adaptor into power outlet.

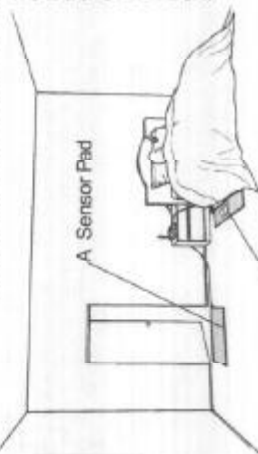
Prop the transmission antenna upright and place the transmitter near the patient. (Connect remote Nurse Call Button depending on the conditions of the patient)



Use of Optional Wander Prevention Floor Sensor Pad

Placing Optional Wander Prevention Floor Sensor Pad

Purpose: To monitor patients who tend to wander off.
Floor Sensor Pad sends out an alarm to the receiver at maximum volume. Alarm to the care-giver is triggered when pressure/weight of care receiver is applied to the pad.
Place the pads where early detection can be achieved as in the diagram on the left.
(Contact American Excel Engineering when you want to use more than two pads simultaneously.)



8 Sensor Pad (Arrange placements of pads according to room layout.)

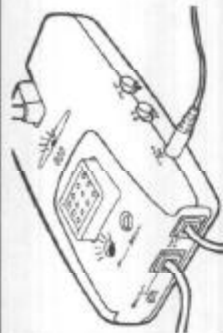
D

1. Setting Up Transmitter

Part 2

Connect AC Adaptor, Nurse Call Button, Bed Sensor Pad and any other Optional items to the transmitter.
Turn power switch to ON position. Power LED will turn red. Note which channel is selected, A or B.
Next, press down the Bed Sensor Switch and Bed Sensor LED will light (green).

(The illustration includes optional items.)



2. Setting Up Receiver

Different power source requires different set up procedure.
Set up the receiver away from the transmitter to avoid resonant noise resulting from receiver and transmitter being too close.
Note the power switch is in Off position.

Fixed Usage

Powered by wall outlet

Plug the AC Adaptor in the receiver, then plug the adaptor to the wall outlet.

Caution
Keep the AC Adaptor and its cord out of the reach of children. (To avoid injury and electric shock) Use only the AC Adaptor included. (To avoid fire and shock hazard as well as damage to the receiver.)
Disconnect the adaptor when you are not using for a long period of time. (To avoid fire shock hazard and damage to the receiver)



Place the receiver in upright position when caregiver can see the sound level meter.



Portable Usage

Powered by battery

Unplugged the receiver from AC adaptor. Attach neck strap (included) or use belt clip on the back of the receiver for portable use.



Observe battery level.

Caution
Use our replacement battery only. (To avoid fire hazard and damage.)

Switch the channel setting to A or B to synchronize it with the transmitter.



Caution
If transmitter and receiver are set a different channel, receiver cannot establish signal reception from the transmitter.

Caution
Always use the receiver in upright position. Use of unit with the antenna lying horizontally may result in poor reception.

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3. Using The Receiver



Turn the power/volume switch on. Check that red light of power LED turns on and that sound level is to your liking.
(In the event that all LEDs light up, it is either the transmitter may be too close to the sound source or it may not be turned on.)
Adjust volume

Switching channels of both transmitter and receiver may improve performance when you have poor transmission or reception. Both transmitter and receiver should be set at the same channel. When the transmitter is off, all lights of sound level meter are lit and the receiver gets very noisy.

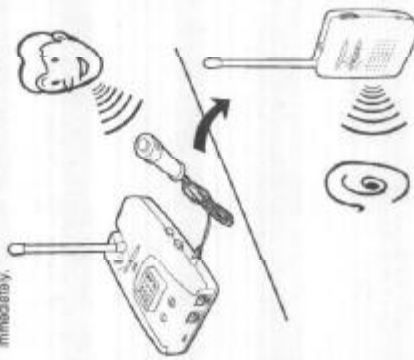


4. Monitoring Voice and Nurse Call

Sound and Nurse Call signals are sent from transmitter to receiver. Nothing is sent from receiver to transmitter.
When a nurse call signal is received, the receiver will generate a loud alarm beeping sound. In order to turn off the alarm sound, turn off the power switch of the receiver. Once the nurse call button is pushed, transmitter continues to send out signal to the receiver or seven seconds. Wait for about ten seconds before the receiver is turned back on.
(If turned back on in seven seconds, the receiver may resume alarm sound.)

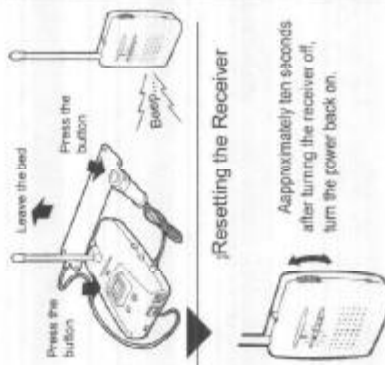
Monitoring Voice

When a patient speaks
Sound around either transmitter or attached nurse call button will be picked up. When a patient speaker makes noise, the sound is transmitted to the receiver immediately.



Monitoring Nurse Call

When a patient pushes the button
When nurse call button on the transmitter or wired nurse call button is pressed the receiver will generate a loud beeping alarm sound.



To avoid a howling sound, turn the power off of the receiver when approaching the transmitter.
With the receiver off, no voice or nurse call signal is received.



5. Stop Monitoring

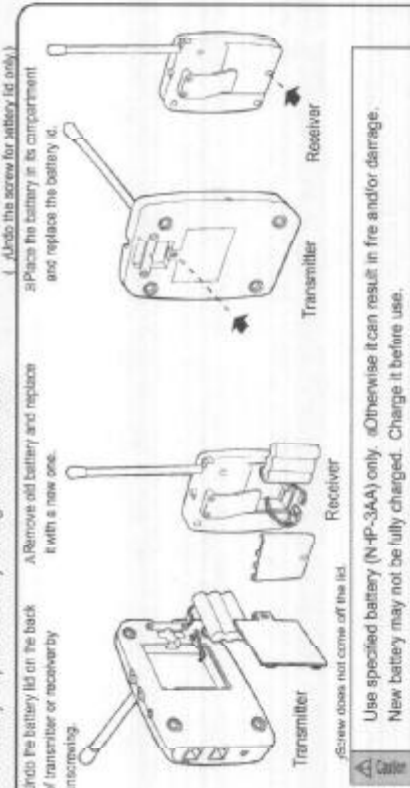
To stop monitoring, turn off the power of both transmitter and receiver.
Transmitter continues to work, even when receiver is turned off.
When using transmitter and/or receiver with battery power/cordless, turn them off once monitoring is over.

To optimize cordless use time for transmitter and receiver, maintain batteries fully charged by plugging in AC adapters.

F

Replacing Built-In Ni-MH Rechargeable Battery

Long continuous use of this product (transmitter and receiver) repeats series of recharge and discharge of the built-in battery. When the battery reaches its usable expectancy, periods between recharge gets shorter and shorter. It is time to replace the battery. Replace the battery following the instruction below.



Use specified battery (N-HP-3AA) only. Otherwise it can result in fire and/or damage.
New battery may not be fully charged. Charge it before use.

Dispose of the used battery properly.

Determining Signal Receiving Range

Before you start monitoring, establish receiver's range.

- Set up the transmitter and receiver as described in Section 1; Setting Up Transmitter and Section 2 Setting Up Receiver.
- Place a sound source near the transmitter. (Radio, etc.)
- Turn on the power of the receiver as per Section 3; Using the Receiver.
- Check reception by listening to the sound of radio from the receiver. Switch the channel of both transmitter and receiver if the reception is poor. Move the transmitter and/or receiver for better reception, if needed.
- Set the transmitter and receiver to the same channel. Otherwise, it will not work.
- More noise will be heard as the reception worsens. Use where the noise level is minimal or none.
- Check the reception wherever you may take the receiver.
- Following the above procedure, use this product only in the places where reception is good. While using on battery, remember that reception deteriorates as battery gets discharged and weak. Transmission is done on radio wave and surroundings can interfere and cause constant noisy reception.
- Transmitter emits radio wave which can interfere with TV and radio in the vicinity. Try the following actions for improvement.
 - Move the transmitter away from TV and radio.
 - Change power outlet if AC adaptor of the transmitter is plugged in the same outlet as for TV and radio.

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Specifications

Communications : FM Radio J Low Power Radio Wave, Two Channels Switchable

Range : Approx. 195 feet

Power Source : Transmitter 6V AC Adaptor/Ni-MH Battery

Receiver 6V AC Adaptor/Ni-MH Battery

Dimensions : Transmitter 4.1"(W)x 3.9"(D)x 1.6"(H) (7.7"H with Antenna) 9.2 oz.

Receiver 3.0"(W)x 1.5"(D)x 4.3"(H) (8.8"H with Antenna) 7.1 oz.

Bed Sensor Pad 3.9"(W)x 26"(L)

Material : Transmitter/Receiver Cabinets ABS Resin

® Product is subject to change without notice.

Troubleshooting

Symptom	Cause	Remedy
■ Transmitter		
1 LED does not light up when power is turned on.	AC Adaptor is not connected correctly. Low Battery	• Connect AC adaptor correctly. • Recharge Battery
2 Cannot use on battery.	Low Battery Battery Dead	• Connect AC adaptor. • Replace Battery.

■ Receiver

3 Does not turn on the power LED.	AC Adaptor is not connected correctly. Low Battery	• Connect AC adaptor correctly. • Recharge Battery.
4 Cannot use on battery.	Low Battery Battery Dead	• Recharge Battery. • Replace Battery.
5 Only hear noise and no voice. (Cannot receive radio wave.)	Transmitter is off. Different channel is set. Out of range	• Turn on the transmitter. • Synchronize the channel. • Return within the range.
6 Very Noisy (Poor Reception)	Weak signal from transmitter.	• Change Channel. (Change transmitter channel too) • Move to other location.
7 Low Sound Level when Volume Control is turned up.	Low Battery Poor location and direction of transmitter Low Battery	• Recharge the battery. • Change location and direction of the transmitter. Recharge Battery
8 Alarm goes off again when power is turn back on after nurse call.	Alarm is transmitted for 7 sec. Nurse call button was pushed repeatedly.	• Power after 10 sec. • Check with the care taker. ♂

FCC NOTE (United States Only)

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which is receiver connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Wireless Audio Monitor

Model Number: NRM-180

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

Customer Affairs Department
3655 Torrance Blvd., Suite 368
Torrance, CA 90503

Expandables/Accessories

Part Number	Part Name
NCB-320	Nurse Call Button with Microphone
STR-45G	Neck Strap
NHP-3AA	Ni-MH Rechargeable Battery Pack 3AA1600
ACA-6100J	AC Adaptor
FSP-100	Floor Sensor Pad

Limited Warranty Important!

Sales Slip or Proof of Purchase Date Required

This limited warranty gives you specific legal rights; you may also have other rights which vary from state to state.

The limited warranty is extended only to the original consumer of American Excel Engineering product and is valid only with respect to consumers within the United States of America and Canada. Subject to the following conditions, should this product prove defective because of improper workmanship or material.

During the period of one (1) year (six months for floor and bed sensor pads) from the date of original purchase, American Excel Engineering will repair or at its option, replace the product without charge for parts or labor.

This limited warranty does not apply: (a) to any product damaged by accident, misuse, fire, water, or other acts of nature, (b) if the product is altered or repaired by anyone other than American Excel Engineering or one of its authorized warranty stations.

This limited warranty does not cover broken or marred cabinets.

Except to the extent prohibited by applicable law, all implied warranties made by American Excel Engineering in connection with this product are limited in duration to a period of one (1) year from the date of original purchase, and no warranties, whether expressed or implied, shall apply to this product after said period.

Should this product prove defective in workmanship or material, the consumer's sole remedies shall be such repair or replacement as is herein above provided. Under no circumstances shall American Excel Engineering be liable for any loss or damage, direct, consequential, or incidental arising out of the use of or inability to use the product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you.

In order to obtain warranty service, you must provide proof of purchase date. For your convenience, keep the dealer's dated bill of sale or delivery ticket as proof of purchase.

For service information on the product, call American Excel Engineering at (310) 543-9303.

American Excel Engineering

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