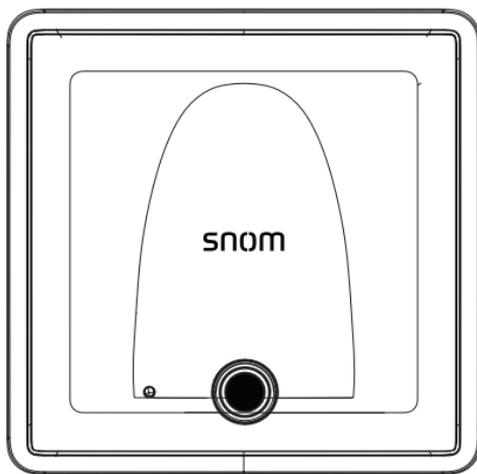


snom



M1

DECT Repeater

Quick Installation Guide

Important Safety Information



This symbol is to alert you to important operating or servicing instructions that may appear on the product or in this user's manual. Always follow basic safety precautions when using this product to reduce the risk of injury, fire, or electric shock.

Important Safety Instructions

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water such as near a bathtub, wash bowl, kitchen sink, laundry tub or swimming pool, or in a wet basement or shower.
5. Do not overload wall outlets and extension cords.
6. Unplug this product from the wall outlet and refer servicing to an authorized service facility under the following conditions:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled onto the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operation instructions. Improper adjustment of other controls may result in damage and often requires extensive work by an authorized technician to restore the product to normal operation.
 - E. If the product has been dropped and the base unit and/or wireless mic has been damaged.
 - F. If the product exhibits a distinct change in performance.
7. Do not place this product on an unstable table, shelf, stand or other unstable surfaces.
8. Slots and openings in the back or bottom of the base unit are provided for ventilation. To protect them from overheating, these openings must not be blocked by placing the product on a soft surface such as a bed, sofa or rug. This product should never be placed near or over a radiator or heat register.

This product should not be placed in any area where proper ventilation is not provided.

9. This product should be operated only from the type of power source indicated on the marking label.
10. Do not allow anything to rest on the power cord. Do not install this product where the cord may be walked on.
11. Never push objects of any kind into this product through the slots in the base unit or wireless mic because they may touch dangerous voltage points or create a short circuit. Never spill liquid of any kind on the product.
12. Use only the adapter included with this product. Incorrect adapter polarity or voltage can seriously damage the product.
13. For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

SAVE THESE INSTRUCTIONS

For cUL compliance only

Mesures de sécurité importantes



Ce symbole vous alertera d'informations importantes ou d'instructions d'entretien pouvant apparaître dans ce guide d'utilisation. Respectez toujours les mesures de sécurité et de sécurité de base lorsque vous utilisez ce produit, afin de réduire les risques de blessures, d'incendie, ou d'électrocution.

Mesures de sécurité importantes

Afin de réduire les risques d'incendie, de blessures corporelles ou d'électrocution, suivez toujours ces mesures préventives de base lorsque vous utilisez votre téléphone :

1. Lisez et comprenez bien toutes les instructions.
2. Observez toutes les instructions et mises en garde inscrites sur l'appareil.
3. Débranchez ce téléphone de la prise murale avant de le nettoyer. N'utilisez pas de nettoyeurs liquides ni en aérosol. N'utilisez qu'un chiffon doux et légèrement humecté.

4. N'utilisez pas ce produit près de l'eau, tel que près d'un bain, d'un lavabo, d'un évier de cuisine, d'un bac de lavage ou d'une piscine, ou dans un sous-sol humide ou sous la douche.
5. Ne surchargez pas les prises de courant et les rallonges.
6. Débranchez cet appareil de la prise de courant et communiquez avec le département de service à la clientèle de Snom dans les cas suivants :
 - A. Lorsque le cordon d'alimentation est endommagé ou écorché.
 - B. Si du liquide a été échappé dans l'appareil.
 - C. Si l'appareil a été exposé à une source d'humidité telle que la pluie ou l'eau.
 - D. Si le produit ne fonctionne pas normalement en respectant les instructions de fonctionnement. Réglez uniquement les commandes indiquées dans les instructions de fonctionnement. Les réglages incorrects des autres commandes pourraient provoquer un dommage qui pourrait exiger un travail exhaustif de la part d'un technicien autorisé afin de rétablir le fonctionnement normal de l'appareil.
 - E. Si le produit a été échappé et que le socle et/ou le microphone sans fil a été endommagé.
 - F. Si le produit affiche une nette diminution de sa performance.
7. Ne déposez pas ce téléphone sur un chariot, support ou table chancelants. L'appareil pourrait tomber et être sérieusement endommagé.
8. Les ouvertures situées à l'arrière ou sous le socle servent à la ventilation. Afin d'empêcher la surchauffe, ces ouvertures ne doivent pas être obstruées en plaçant l'appareil sur un lit, divan, tapis ou autre surface similaires. Ne placez pas cet appareil à proximité d'un élément de chauffage ni d'une plinthe électrique. De plus, ne l'installez pas dans une unité murale ou un cabinet fermé qui ne possède pas d'aération adéquate.
9. Ne faites fonctionner cet appareil qu'avec le type d'alimentation indiqué sur les étiquettes de l'appareil.
10. Ne déposez rien sur le cordon d'alimentation. Installez cet appareil dans un endroit sécuritaire, là où personne ne pourra trébucher sur la ligne d'alimentation ni le cordon téléphonique modulaire.
11. N'enfoncez jamais d'objets dans les fentes du socle, car ceci risquerait d'entrer en contact avec des points de tension dangereux ou provoquer un court-circuit. N'échappez pas de liquides dans l'appareil.

12. N'utilisez que les adaptateurs inclus avec ce produit. L'utilisation d'un adaptateur dont la polarité ou la tension serait inadéquate risque d'endommager sérieusement le produit et mettre votre sécurité en péril.
13. Pour les PRODUITS À BRANCHER À UNE PRISE DE COURANT, la prise de courant doit être installée près du produit, afin d'assurer une accessibilité sécuritaire à la prise de courant.

CONSERVEZ CES INSTRUCTIONS

FCC part 15

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.

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 a 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 the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

CAUTION: To maintain the compliance with the FCC's RF exposure guideline, place the base unit at least 20 cm from nearby persons.

Industry Canada

This Class B digital apparatus complies with Canadian requirements: CAN ICES-3 (B)/NMB-3(B). Cet appareil numérique de la classe B est conforme à la norme CAN ICES-3 (B)/NMB-3(B) du Canada.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Privacy of communications may not be ensured when using this telephone.

The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

About this Guide

This Quick Start Guide provides you with basic installation and use instructions. A limited set of features are described in abbreviated form.

For customer service or product information, visit our website at **snomamericas.com**.

Introduction

The Repeater lets you extend the coverage area of your telephone system in all directions, including up and down.

When registered to the Base Station, and the Repeater's coverage area overlaps the coverage area of the Base Station, the Base Station can hand off calls to the Repeater as the user moves from one coverage area to another.

When connected to the Repeater, the cordless handset operates in exactly the same way as it does when connected to the Base Station. The hand off from the Base Station to the Repeater should be seamless, even during an active call.

Parts Checklist

- Repeater
- Power adapter
- Quick Start Guide

Getting Started

Location

To get the best operating conditions for the Repeater, it is important to place it correctly. Here are a few tips for placing the Repeater:

- Place the Repeater as high as possible, but at least 6 feet (2 meters) off the ground.
- Make sure you have good reception from the Base Station.
- Make sure the location is close to a corresponding electrical outlet.
Never install electrical cords across a traffic area; they can create a trip hazard or become damaged and create a fire or electrical hazard.
- Allow at least 36 feet (11 meters) between Repeaters (if you are installing the Repeaters across multiple floors, remember to allow 36 feet [11 meters] vertically as well).
- Avoid sources of electrical interference, such as hi-fi systems, office equipment or microwave ovens.
- Avoid heat sources and direct sunlight.
- Avoid things that can interfere with radio signals, such as metal doors, thick walls, niches and cupboards.

Map the Base Station Coverage

To find the best location for the Repeater, you need to determine the Base Station coverage area.

1. Stand near the Base Station and make a call.
2. Walk away from the Base Station with the handset.
3. Make a note of where the signal becomes weaker.

NOTE: The optimum location for the Repeater is as far from the Base Station as possible while still maintaining a “good” signal, or just inside the location where the signal became weaker.

Test the Location

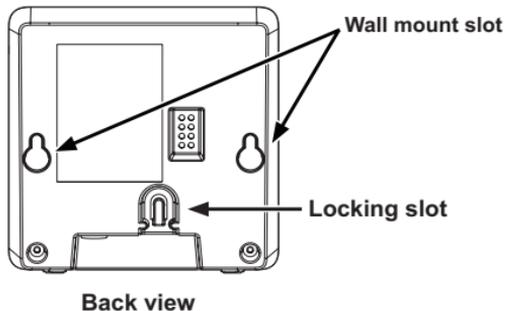
1. Register the Repeater to the Base Station.
See “Registration” on page 12.
2. Hold the Repeater in the place where you plan to mount it. The LED should remain on and steady, indicating that the Repeater has a good signal from the Base Station.

Connect

Install your Repeater

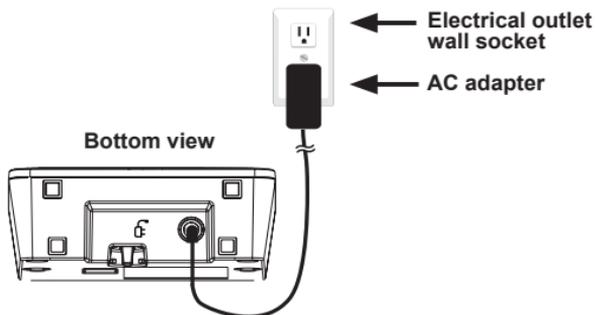
Plug the AC adapter into the Repeater in its final location, and then plug the other end into the electrical outlet wall socket and switch the power on.

Or if you want to mount the Repeater on a wall:



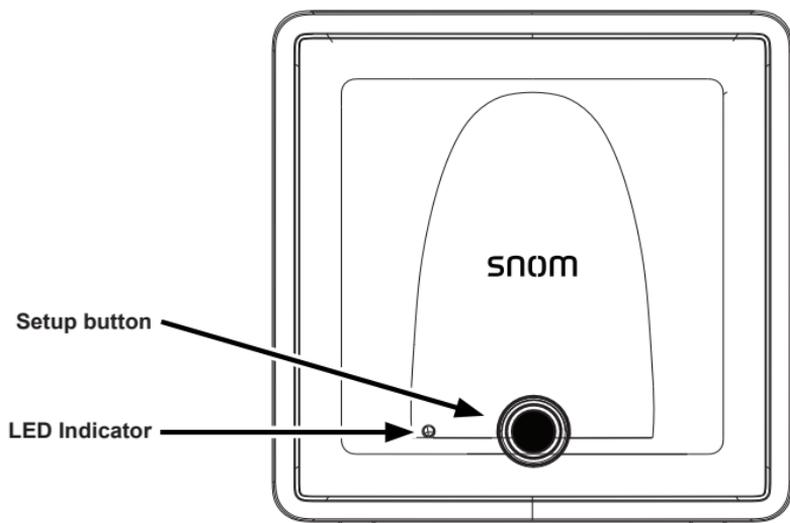
1. Plug the AC adapter into the Repeater, thread the cable through the locking slot (ensuring the cable does not protrude and prevent the unit from fitting flush against the wall) and then bundle the power cable with a twist tie.
2. Test the signal strength in the final location as described in "Getting Started" on page 9, and then install two wall-mount screws in the wall.
3. Put the wall mount slot on the back of the Repeater over the screw heads and slide the Repeater down into place.

NOTE: Be sure the wall material can hold the weight of the Repeater. Never install a Repeater in damaged or decaying wall material.



Overview

Overview of the Repeater



Setup Button Combined with LED Indicator

The setup button  initiates the registration/deregistration process. The LED indicator shows the link or usage status of the Repeater.

LED		Description
Colour	Pattern	
-	-	Powered off.
Red/Green	Toggle	The Repeater is in registration mode.
Green	Triple Flash	Registration is completed successfully.
Green	Steady On	Good link to the Base Station.
Yellow	Steady On	Weak link to the Base Station.
Red	Slow Flash	No link to the Base Station.
Green	Double Flash	The Repeater is in use with a good link to the Base Station.
Yellow	Double Flash	The Repeater is in use with a weak link to the Base Station.

Registration

Enable Repeater Mode on the SIP DECT Base Station:

Follow the instructions below to enable your Snom SIP DECT Base Station to connect to the M1 DECT Repeater.

1. Open the Web User Interface (WebUI) for the SIP DECT Base Station.
2. Go to the **System > Repeater Mode** page.
3. Select the **Enable Repeater Mode** checkbox, and then click **Save**.

NOTE: Changing this setting will reboot your SIP DECT Base Station.

Register the Repeater to the SIP DECT Base Station:

Follow the instructions below to register the M1 DECT Repeater to your Snom SIP DECT Base Station.

Make sure the Repeater is not connected to AC power before registering.

You can register up to five Repeaters per Base Station.

1. Set the Base Station into registration mode: press the HANDSET LOCATOR button for at least four seconds, and then release the button. Both LEDs on the base station begin to flash.
2. Use the AC adapter to connect the Repeater to an electrical socket.
3. Press and hold the setup button  for 5 seconds. The Repeater will start the registration to the Base Station.

NOTE: The registration mode of the Repeater may last for 30 minutes.

Connect a Repeater to another Repeater in Cascade Mode:

You can connect up to two Repeaters in series between a Snom SIP DECT Base Station and Handset. This connection is called Cascade Mode.

Follow the instructions below to connect two M1 DECT Repeaters in Cascade Mode.

1. Register all of your Repeaters to the Base Station (as described in “**Register the Repeater to the SIP DECT Base Station**”, above).
2. Take one of the Repeaters to a location where it is far enough away from the Base Station, but close to a Repeater to get a Cascade Mode connection.
3. Use the AC adapter to connect the Repeater to an electrical socket.

Troubleshooting

Problem	Solutions
The LED on the Repeater won't stop flashing.	<ul style="list-style-type: none">• Move the Repeater closer to the Base Station.• Check for interference from electronic devices.• Make sure the Repeater is not too close to metal objects or thick walls.
Calls will not hand over to the Repeater.	<ul style="list-style-type: none">• Make sure the Repeater is within the Base Station's good signal range.• Make sure there are at least 11 meters between Repeaters.
I used to be able to connect to the Base Station, but now I cannot.	<ul style="list-style-type: none">• Make sure the Repeater is powered on.• Move the Repeater closer to the Base Station and register it again.
The audio quality is very poor or noisy when receiving a call.	The signal connection is very poor. Try to find another location where the signal to the Base Station is better.
Calls lost or audio becomes poor when moving from the Base Station reception range to the Repeater reception range.	You may be moving out of the Base Station or Repeater reception range, or are in a blind spot. Move towards the Base Station or Repeater.

Technical Specifications

Standards	Digital Enhanced Cordless Telecommunication (DECT)
RF Frequency Band	1921.536–1928.448 MHz
Number of Channels	5
AC Adapter Output Voltage	6.0V DC 450mA

Disposal Warning

1. When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products/battery should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance/battery will help prevent potential negative consequences for the environment and human health.



For more detailed information about disposal of your old appliance/battery, please contact your city office, waste disposal service or the shop where you purchased the product.

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