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# M1

DECT Repeater

Quick Installation Guide

## 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

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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

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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

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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.

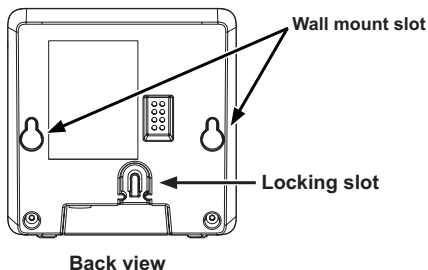
# Connect

## Install your Repeater

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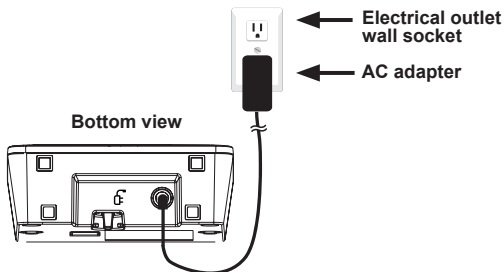
Plug the AC adapter into the Repeater in its final location, and then plug the other end into the electrical outlet wall socket and switch the power on.

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.

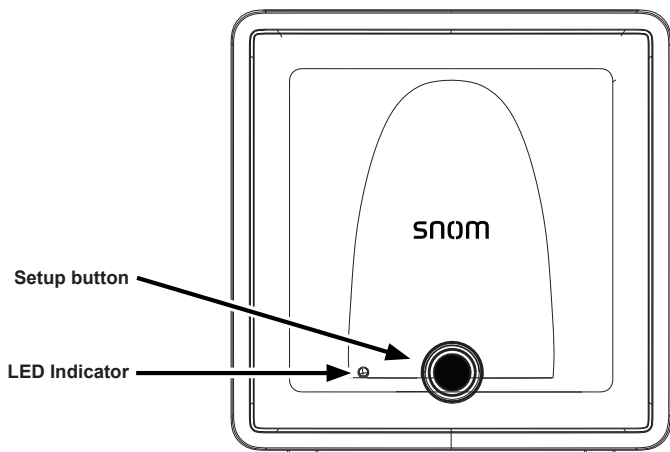
**NOTE:** Be sure the wall material can hold the weight of the Repeater. Never install a Repeater in damaged or decaying wall material.




# Overview

## Overview of the Repeater

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### 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

<b>Problem</b>	<b>Solutions</b>
The LED on the Repeater won't stop flashing.	<ul style="list-style-type: none"><li>• Move the Repeater closer to the Base Station.</li><li>• Check for interference from electronic devices.</li><li>• Make sure the Repeater is not too close to metal objects or thick walls.</li></ul>
Calls will not hand over to the Repeater.	<ul style="list-style-type: none"><li>• Make sure the Repeater is within the Base Station's good signal range.</li><li>• Make sure there are at least 11 meters between Repeaters.</li></ul>
I used to be able to connect to the Base Station, but now I cannot.	<ul style="list-style-type: none"><li>• Make sure the Repeater is powered on.</li><li>• Move the Repeater closer to the Base Station and register it again.</li></ul>
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