112 DECT Phone (Universal) and RFP 12 Single Cell Base Station

A

B
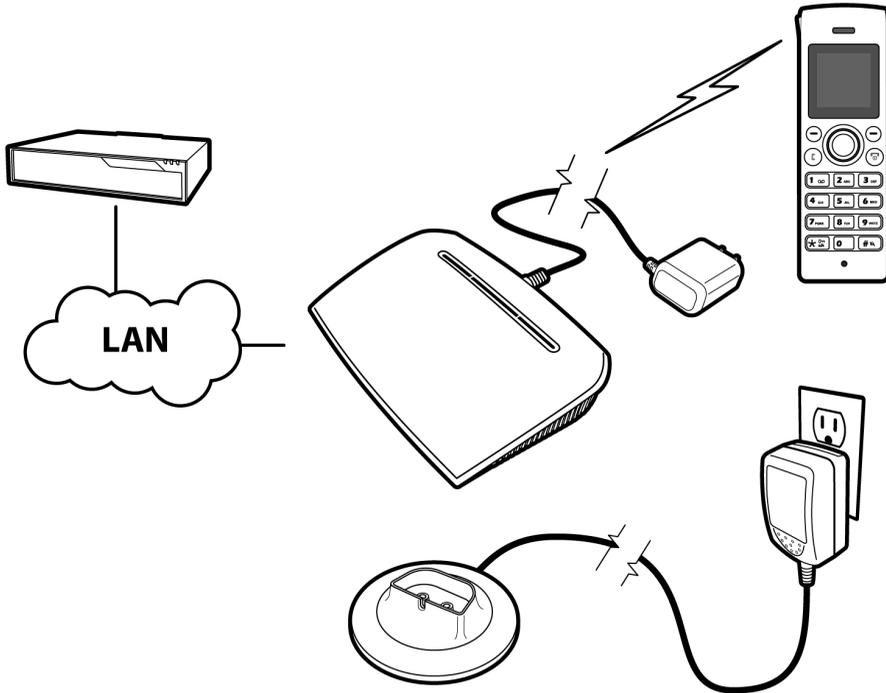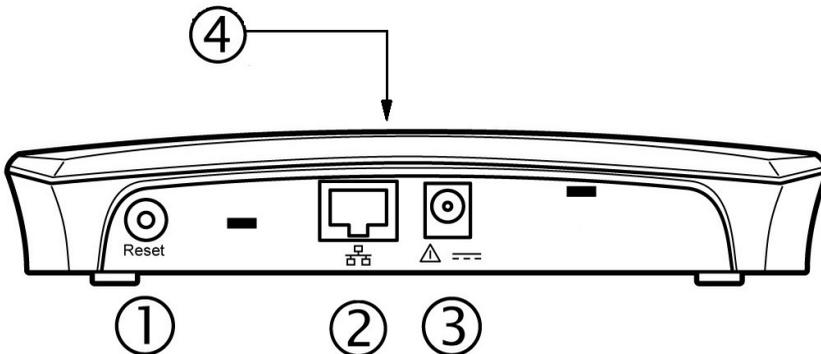
Mitel®

.Description

The Mitel® 112 DECT Phone (Universal) and Mitel RFP 12 Single Cell Base Station provide SIP call processing features on a cordless handset. The base station supports up to twenty cordless handsets.

The base station connects to the network via a LAN cable. The base station extends the SIP phone functionality from the communications platform to the phones. You can purchase additional phones and chargers from the Mitel Customer Service order desk.

The phone has an indoor signal range of up to 50 meters (150 feet) from the base station and an outdoor range of up to 300 meters (900 feet). Note that this range can be limited by concrete or metal barriers. To extend the signal range, you can purchase an optional repeater.

Figure **A** provides an overview of the completed installation.

What You Received

- Mitel 112 DECT Phone
- Phone charging cradle with hard wired power supply adapter. The power supply adapter kit contains multiple, attachable, voltage connector plugs.
- Mitel RFP 12 Single Cell Base station
- Ethernet cable
- Power supply adapter for base station. The power supply adapter kit contains multiple, attachable, voltage connector plugs.

What You Require

- MiVoice Business Communications Platform
  or
- MiVoice Office 250 Communications Platform

Base Station Rear Panel Components (See Figure **B**)

#	Description
①	RESET button: Press to activate configuration changes or to enable handset registration. The first handset automatically registers with the base station after approximately 30 seconds. To register each additional handset on the same base station, you must first reboot the base station by pressing the RESET button on the rear panel of the base station. You can also reset the base station configuration (including the admin user name and password) to the default values using the this button. Press and hold the Reset button for greater than 10 seconds to reset the base station. Note that you cannot reset the base station while a call is being supported on a handset that is registered to the base station.
②	LAN Port: Connects to LAN via Ethernet cable.
③	Power Input: Connects to the AC power adapter for the base station.
④	Base Station LED

| State	Meaning
OFF	No power
FLASHING GREEN	Initialization in progress
SOLID GREEN	Ethernet connection is available (Normal operation)
FLASHING ORANGE	No IP address
SOLID ORANGE	Reset required.
FLASHING RED	Factory setting in progress OR Ethernet connection not available OR Handset registration/deregistration failed.
SOLID RED	Factory reset warning after a long press (10 seconds or more) of the Reset button OR Error condition. Replace base station if error condition persists.

Installation

Connect the Cables

1. Connect the LAN cable into the LAN port on the back of the base station.
2. Connect the other end of the LAN cable to a LAN jack.
3. Connect the power supply adapter cable to the power input jack. See ③ in Figure **B** .
4. Plug the power supply adapter into an appropriate wall outlet. Ensure the LED on the base station flashes yellow.

Install Handset Batteries

1. Release the battery cover at the bottom of the back panel and remove.
2. Insert rechargable batteries in the handset.
3. Replace the back panel and slide shut.

Set Up Handset Charger

1. Install the appropriate 2-prong wall outlet connector into the charger power supply adapter. To remove the currently installed connector, depress the small tab and slide it up.
2. Plug the charger's power supply adapter into an appropriate wall outlet.
3. Place the handset in the charger. When you place the first handset in the charger, the handset automatically registers with the base station. After the first handset is registered, there is a 5 minute period during which you can register additional handsets. To register additional handsets after the 5 minute period has expired, you must press the Reset button on the base station to start a new 5 minute registration period.
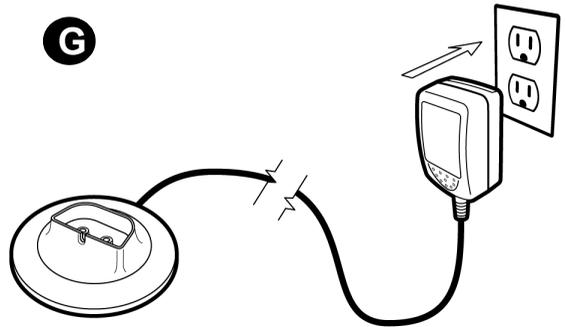
4. Charge the batteries. We recommend that you charge the batteries fully before first use. Initially, it takes approximately 10 hours to fully charge the batteries. Normally, it takes approximately 6 hours.

Configuration Requirements

You must complete the following configuration before the handset is fully functional:

1. License and program the Mitel 112 DECT Phone as a SIP Phone:
   - For MiVoice Business systems, program the SIP phone with a SIP device type. Refer to the *MiVoice Business System Administration Tool online help* for instructions.
   - For MiVoice Office 250 systems, see the *MiVoice Office 250 Features and Programming Guide* and/or the Database Programming online help for instructions on how to program SIP phones.
2. Configure the handsets and base station to support SIP telephony. Refer to the *Mitel 112 VoIP System Guide* for instructions.

NOTE: The communication platform documentation, *Mitel 112 VoIP System Guide*, and *Mitel 112 DECT Phone Quick Reference Guides* are available on the Mitel Customer Documentation web site at http://edocs.mitel.com.

Troubleshooting

Symptom	Possible Causes	Corrective Action
Handset display is black.	Handset is in power saving mode.	Press any key
	Battery is drained.	Put handset in charger and recharge battery.
	Power outlet that the adapter is connected to is turned off.	Ensure power cord is connected properly and that power outlet is supplying power.
Handset does not charge	Power outlet that charger adapter is connected to is turned off or not supplying power	Ensure power cord is connected properly and that power outlet is supplying power.
	Handset batteries are installed incorrectly	Check batteries. Ensure that they are oriented correctly.
Handset registration failed, and the status indicator on the display is black.	Handset is out of range of the base station.	Move handset closer to the base station, turn off the handset, place the handset in the charger, and then turn it on again. Reset the base station and place the handset in the charger.
Handset display shows, "Searching for Gateway".	Handset is out of range of the base station.	Move the handset closer to the base station.
	Base station is not powered	Plug the base station into a continuous power outlet.
The POWER indicator on the base station is off.	Base station is not powered.	Check that the base station power cord is connected properly, and that the adapter is plugged into a continuous power outlet.
The indicator on the base station is flashing yellow.	Ethernet cable is not connected.	Check that the Ethernet cable between the WAN port on the base station and the LAN port on your router is connected properly
	Router is not turned on.	Turn on power to router
	Base station cannot retrieve an IP address	In Internet Settings, check that the IP mode corresponds to the IP mode of your Internet connection.
You cannot make calls, the VoIP indicator on the base station is not lit, and the right status indicator in the upper left corner of the display is black.	Configuration of the handset is not complete.	Check that you have configured your handset properly.
	Base station has not been reset after you saved the configuration.	Reset the base station and allow the base station two minutes to log in with the communications platform.
	Router or modem has not assigned an IP address to the handset.	Check that your router or modem is working properly. Check the IP address by pressing the volume up key on the handset while in Idle mode.

Symptom	Possible Causes	Corrective Action
You cannot make calls, the VoIP indicator on the base station is not lit, and the right status indicator in the upper left corner of the display is black.	Router is blocking Internet telephony.	a) Try disabling STUN. Open the Internet settings menu, choose STUN mode, and select Disabled. Reset the base station. For more information, see the Router user manual. b) Use port forwarding. The default SIP port is 5060, and the default RTP port is 5004. If you use port forwarding, you must use static IP mode. For more information, check your router's user manual.
	Router firmware needs to update.	Check your router's user manual to see how to update the firmware
You cannot make calls, but handset worked previously.	Base station is not logged into the communications platform.	Check that all cables are connected properly, and check that power is turned on, and then reset the base station.
	Router is turned off.	Turn on the router.
	The router is using port forwarding, but the handset has dynamic IP mode enabled.	Change to static IP mode. For more information, see the user manual. Note that the configured static IP address must agree with the configured port forwarding.

Specifications

Specification	Value
Temperature	
High Temperature Storage	+ 16° C± 2°, 96 hours, Relative humidity 95%
Low Temperature Storage	- 20° C± 3°, 96 hours
High Temperature Operation	+ 40° C, 8 hours, Relative humidity 95%
Low Temperature Operation	0° C, 8 hours
RFP 12 Single Cell Base Station	
Power Supply Adapter	Input:100-240 VAC 50-60 Hz Output Nom: 5 VDC 1000 mA One end with DC pin, other end with appropriate voltage connector plug
Mitel 112 DECT Handset	
Batteries	Two rechargeable batteries 600 mAh 1.2V Mitel PN 51303917
Battery Life	Talk time greater than 12 hours; standby minimum of 200 hours
Desktop Charging Cradle	
Power (AC/DC)	Input 100-240 VAC 50-60Hz Output Nom: 5 VDC 1 A One wired into charging cradle, other end with appropriate voltage connector plug
Charging time	Empty batteries recharged in less than 6 hours