



# DECT Repeater

RT20U

## Part 15 FCC Rules

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

This device is compliant 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

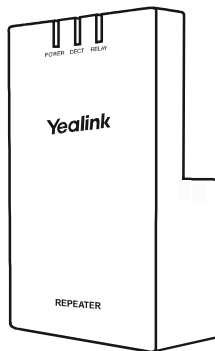
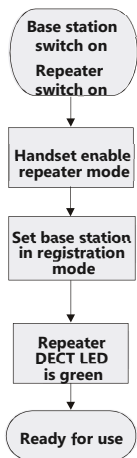
may cause undesired operation.

## IC Rules

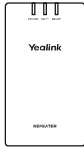
"This product meets the applicable Innovation, Science and Economic Development Canada technical specifications. / Ce produit répond à la innovation, des sciences et de Développement économique Canada spécifications techniques applicables."

"The Ringer Equivalence Number (REN) indicates the maximum number of devices allowed to be connected to a telephone interface. The termination of an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices not exceed five. / Le nombre équivalent desonneries (REN) indique le nombre maximal de terminaux qui peuvent être raccordés à une interfacetéléphonique. La terminaison d'une interface peut consister en une combinaison de dispositifs, à la seule condition que la somme des REN de tous les dispositifs ne dépasse pas cinq."

The flow diagrams of registration is shown below



The following items are included in your package:



RT20U



User Guide



USB Cable



Power Adapter

## Overview

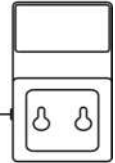
### Appearance Instructions

DECT LED

[www.yealink.com](http://www.yealink.com)



Reset Key



Power LED

Reset Key

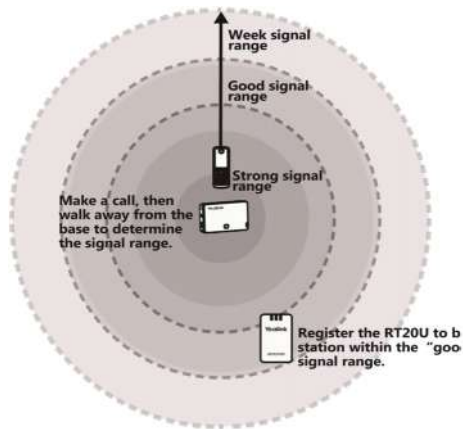


Relay LED

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## Placement

To achieve optimum performance for the repeater, it is important to find a good location.



1. Hold the handset and stand near the base.
2. Make a call, and carry the handset away from the base.
3. Make a note where you start to hear noise on the line, which indicates the signal is getting weaker.

The optimum location for the repeater is as far from the base as possible while still maintaining a good signal, or just inside the location where the noise became noticeable.

#### Here are a few tips for placing repeaters:

- Choose a raised position for both the base station and repeater wherever possible.
- When positioning the repeater, avoid obstacles that can interfere with radio transmission such as thick wall and metal structures that may be in the coverage area between the base station and repeater.
- Avoid interference from other electrical appliances such as microwave ovens, Hi-Fi equipment, computers etc.
- Keep a minimum of 10 meters between multiple repeaters to avoid coverage area overlapping.

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Registration cannot be performed if the repeater is already registered to one base station. In this case, de-register the repeater before attempting registration. For more information, refer to "De-registration".

#### Registration

1. Plug the repeater into a AC outlet.  
Power LED is green and DECT LED is slowly flashing red.
2. Enable the repeater mode on the handset at the path: **Settings->System Settings-> Repeater Mode.**
3. Set base station in registration mode (Long press paging key on the base station till the first LED flashes).  
If base station is found, DECT LED will fast flash green.  
When DECT LED is on, registration to base station is successful (green: good DECT link).

Note: You cannot set the base station in registration mode, if there are 5 handsets registered on the base station.

#### Relay Connection

Incoming call:

1. Place a call to the handset in repeater zone. The Relay LED on repeater is green.

## 2. Accept the call.

The Relay LED on repeater is green till call is finished.

### Outgoing call:

#### 1. Place a call using the handset in repeater zone.

The Relay LED on repeater is green till call is finished.

### De-registration

If you want to register the repeater to another base station, de-register the repeater beforehand as described below:

#### 1. Plug the repeater into a AC outlet.

If the repeater is registered to a base station, DECT LED is green.

#### 2. Long press the reset key on the repeater.

DECT LED is slow flashing red after successful de-registering the repeater, and the repeater is ready for a new registration.

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## LED Status

The DECT repeater has three LED indicators describing the repeater statuses. The following table provides instructions on repeater statuses and LED indications.

Status	Power	DECT	Relay
Power On	Green	Off	Off
Not registered, auto search base station	Green	Slow flashing red	Off

Base station found	Green	Fast flashing green	Off
Registered to base station, ready for use	Green	Green	Off
Active relay	Green	Green	Green
Registered, but not linked to base station	Green	Alternately fast green - once red Flashing	Off

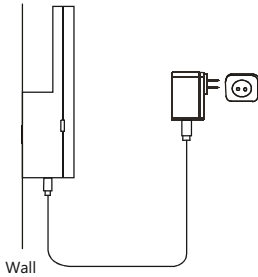
The DECT LED can indicate the DECT link quality. RT20U must be operated with this LED in green status. The following table provides instructions on DECT link quality and LED color.

DECT link	Color
Excellent to good	Green
Medium	Yellow
Poor	Red

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### To connect the power for the repeater:

1. Connect RT20U to a power outlet using the included cable and USB power adapter.



Note: The repeater should be used with Yealink original USB power adapter (5V/0.6A) and the USB cable only. The use of the third-party USB power adapter or USB cable may cause the damage to the repeater.

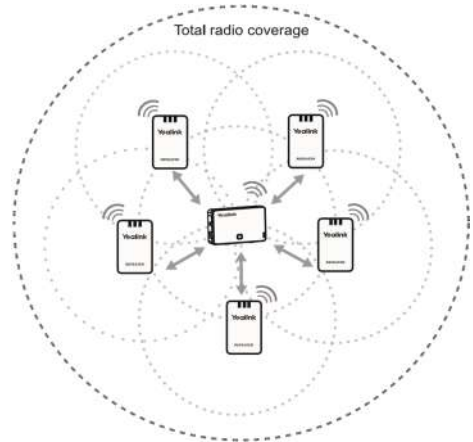
## Introduction

Yealink DECT repeater RT20U is designed in accordance with Digital Enhanced Cordless Telecommunication (DECT) standard. It can be deployed to extend the range of the Yealink IP DECT phone (e.g., W52P, W56P) to cover areas where reception was previously not available. All the usual handset functions are supported by the base station in the extended radio range.

The repeater, base station and cordless handset employ wireless connection. Signals are exchanged without acoustical and visual differences.

## Multiple Repeaters

Up to 5 repeaters can be registered to one base station to extend available reception range for all registered handsets. All repeaters must be installed within the base station coverage area (up to 300m in unobstructed outdoor areas and up to 50m inside buildings), as shown in the figure below. It is not possible to install the repeaters in series or “daisy-chain”.



If the DECT link quality of RT20U is in excellent-to-good condition, you can register up to 5 handsets to your base station and the base station can handle a maximum of 4 calls at one time.

The repeater can be used to extend the coverage range in all directions, allowing several floors to be covered. The automatic handover process is seamless. If the repeater is placed correctly (overlapping the coverage area of the base station), the handsets can move freely within the total coverage area while on a call.

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## Compliance

### FCC Notice

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.

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To ensure safety of users, the FCC has established criteria for the amount of radio frequency energy that can be safely absorbed by a user or bystander according to the intended usage of the product. This product has been tested and found to comply with the FCC criteria. Both the Handset may be safely held against the ear of the user. The telephone base shall be installed and used such that parts of the user's body other than the hands are maintained at a distance of approximately 20 cm (8 inches) or more.

### FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

For base unit it should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body..