



# Yealink W90 Cordless DECT IP Multi-Cell System User Guide

[Home](#) » [Yealink](#) » Yealink W90 Cordless DECT IP Multi-Cell System User Guide 

## Contents

- [1 Yealink W90 Cordless DECT IP Multi-Cell System](#)
- [2 Product Usage Instructions](#)
- [3 Cordless DECT IP Multi-Cell System](#)
- [4 Key Features and Benefits](#)
- [5 Specifications](#)
- [6 About Yealink](#)
- [7 Copyright](#)
- [8 Technical Support](#)
- [9 Documents / Resources](#)



## Yealink W90 Cordless DECT IP Multi-Cell System



The Yealink W90 is a cordless DECT IP multi-cell system that offers seamless stability and wide coverage for large spaces and multi-locations. It is compatible with multiple devices and features HD audio quality for crystal-clear communication. The system is ideal for warehouses, hospitals, hotels, supermarkets chains, offices, and more.

## **Key Features and Benefits**

- **Seamless Stability:** The rotatable external antennas ensure extended signal range and industry-leading coverage, even in complex areas with poor signal transmission or strong interference.
- **Easy Deployment:** The system provides a quick setup with tools for base location, IP discovery, and auto sync level for self-organizing networks.
- **Wide Coverage:** Supports up to 60 bases, 250 handsets, and 250 parallel calls, making it suitable for large spaces and multi-locations.
- **Full Scenarios:** Compatible with various devices, including W53H, W56H, W59R, CP930W, and DD Phone, catering to different employee roles and communication needs.
- **Multiple Phone Books:** Access to multiple phone books, including Local Directory, Remote Phonebook, LDAP, XML Phonebook, and PBX contacts.

## **Specifications**

- **Management:** DECT
- **Audio Features:** HD Audio
- **Interface:** 1 x LAN (Power Indicator & Network Status) LED, 1 x Role LED, 1 x DECT LED
- **Physical Features:** Wall mountable external antenna
- **Package Features:** External Yealink AC adapter (AC 100-240V)
- **Compliance:** REACH

For more information, visit [www.yealink.com](http://www.yealink.com).

## **Product Usage Instructions**

### **Setup**

1. Choose the desired location for the base stations and install them accordingly.
2. Connect the base stations to the LAN network using Ethernet cables.
3. Ensure that the power indicator LED on the LAN port is lit.
4. Connect the external Yealink AC adapter to the base station and plug it into a power outlet.

### **Registration of Handsets**

1. Press the registration button on the base station.
2. On the handset, go to the menu and select "Registration" or "Register Handset".
3. Follow the on-screen instructions on the handset to complete the registration process.
4. Repeat the above steps for each additional handset.

## Phone Book Access

The Yealink W90 supports multiple phone books for easy access to contacts. Follow these steps to access phone books:

1. Press the menu button on the handset.
2. Select “Phonebook” or “Contacts”.
3. Choose the desired phone book from the available options (Local Directory, Remote Phonebook, LDAP, XML Phonebook, or PBX contacts).
4. Navigate through the contacts using the handset’s navigation keys.
5. Press the call button to dial a selected contact.

Note: For detailed instructions on advanced features and configurations, refer to the user manual provided with the product.

## Cordless DECT IP Multi-Cell System

The Yealink W90 DECT IP Multi-Cell System, consisting of two elements – a base station W90B and a DECT Manager W90DM, is designed to provide the organizations who require wireless coverage with the full ease of deployment. This DECT multi-cell system intends to create an extremely scalable and reliable solution for the organizations of any size and any shape. The system supports up to 250 handsets and 250 simultaneous calls, which ensures one call in each handset, and allows you to get rid of the limited wireless signal coverage of only one base station. Meanwhile, the system can work with Yealink W53H, W56H, W59R, CP930W, and DD Phone with seamless roaming and handover of the calls, making freely mobile communication in and between each zone achievable. Both W90B and W90DM join the modern, compact design with Yealink HD voice quality, that setting free your ears and giving you an elaborate audio experience.



## Key Features and Benefits

### Seamless Stability

The Yealink W90 DECT IP Multi-Cell System brings seamless stability. The rotatable external antennas ensure further signal range, industry-leading coverage, and flexible steering for complex areas, which truly saves amount and cost of bases in deployment with industry-leading coverage. Moreover, the Lan Sync guarantees stable roaming even in poor signal transmission environment or strong signal interference like warehouses with overcrowded cargos or several iron gates.

### Easy Deployment

The Yealink W90 DECT IP Multi-Cell System provides easier and faster setup for users: the DECT Deployment Toolkit for quick base location, IP discovery tool for quickly getting IP of DM, and auto sync level for self-organizing network without manual operation. Instead of complex steps, it takes less time from deployment to daily management for large system.

## Wide Coverage

Available for 1DM, 60 bases, 250 handsets and 250 parallel calls, the Yealink W90 DECT IP Multi-Cell System is tailored for large space and multi-locations & bases, delivering unified communicating solution especially for warehouses, hospitals, hotels, supermarkets chains, cruises, authorized car dealerships, offices, retail formats, etc. Virtual machines and more bases will be supported in the future, boarding the coverage once more.

## Full Scenarios

The Yealink W90 DECT IP Multi-Cell System supports various devices: W53H, W56H, W59R, CP930W, DD Phone, which definitely matches different employee roles and full scenes communicating demand from mobile, desk to conference with flexible scalability.

## Multiple Phone Books

The Yealink W90 DECT IP Multi-Cell System offers easy access to multiple phone books, including Local Directory, Remote Phonebook, LDAP, and XML Phonebook. Additionally, it is broadly compatible with PBX contacts.

- Support Air and LAN synchronization
- Seamless handover and roaming
- Up to 60 base stations
- Up to 250 handsets
- Up to 250 SIP accounts
- Up to 250 parallel calls
- Support XML/LDAP/Remote Phonebook
- Support XSI Directory/XSI Call Log
- External antenna, DECT radio coverage up to 50m indoors and 300m outdoors
- DECT technology: Yealink DECT technology focuses on high-quality Audio VoIP (wideband), and low-bitrate data applications. But we are not compatible with any third-party DECT devices (base station, handset, etc.).
- Support Opus
- Support SRTP / SIPS / TLS, LDAP(s) and HTTPS
- Support PoE
- Compatible with Yealink W59R/W56H/W53H, CP930W and DD Phone

## Specifications

### Phone Features

- Sync over the Air and LAN (Seamless handover and roaming)
- Each Multicell System
  - Up to 60 base stations
  - Up to 250 handsets
  - Up to 250 VoIP accounts
  - Up to 250 simultaneous calls
  - Up to 8 WB (4 active handsets) calls per base
  - Up to 8 NB calls per base
- Up to 2 simultaneous calls per handset
- Call hold, call transfer, 3-way conference
- Switching between calls

- Call waiting, mute, silence, DND
- Caller ID with name and number
- Anonymous call, Anonymous call rejection
- Call forward (always/busy/no answer)
- Speed dial, voicemail, redial
- Message Waiting Indication (MWI)
- Music on hold (server-based)
- Local phonebook for up to 100 entries per hand-set
- Remote phonebook/LDAP/XML phonebook
- Phonebook search/import/export
- Call history (all/missed/placed/received)
- Reset to factory, reboot
- Keypad lock, emergency call
- Broadsoft directory, BroadSoft call log
- Broadworks feature key synchronization
- Shared Call Appearance (SCA)
- XML browser
- IPUI registration
- User access level

## **Management**

- Auto-provision via TFTP/FTP/HTTP/HTTPS/RPS
- Auto-provision with PnP
- Handset upgrade: OTA (Over-The-Air)
- Configuration: browser/phone/auto-provision
- Trace package and system log export

## **Audio Features**

- Full-duplex speakerphone
- Hearing Aid Compatibility (HAC) compliant
- DTMF
- Wideband codec: Opus, AMR-WB (optional), G. 722
- Narrowband codec: AMR-NB (optional), PC-MU, PCMA, G.726, G.729, iLBC
- VAD, CNG, AGC, PLC, AJB

## **Network Features**

- SIP v1 (RFC2543), v2 (RFC3261)
- SNTP/NTP
- VLAN (802.1Q and 802.1P)
- 802.1x, LLDP
- STUN Client (NAT Traversal)

- UDP/TCP/TLS
- IP assignment: static/DHCP
- Support outbound proxy server backup

## **Security**

- Open VPN
- Transport Layer Security (TLS1.0/TLS1.1/TLS1.2)
- HTTPS (server/client), SRTP
- Digest authentication
- Secure configuration file via AES encryption
- Support SHA256/SHA512/SHA384

## **DECT**

- Frequency bands: 1880 – 1900 MHz (Europe), 1920 – 1930 MHz (US)

## **Interface**

- 1 x RJ45 10/100M Ethernet port
- Power over Ethernet (IEEE 802.3af), Class 1

## **Physical Features**

- Indoor Range: 30m~50m (The ideal distance is 50m)
- Outdoor Range: 300m (in ideal conditions)
- Wall mountable
- Three LED indicators on W90DM/W90B:
  - 1 x LAN (Power Indicator & Network Status) LED
  - 1 x Role LED
  - 1 x DECT LED
  - External Yealink AC adapter: AC 100-240V Input and DC 5V/1.2A Output
  - Color: Pearl White
  - Dimension: 134mm x 100mm x 28mm
  - Operating humidity: 10~95%
  - Operating temperature: 0~+40°C (+32~104°F)

## **Package Features**

- Package contents:
  - W90DM/W90B
  - Expansion Screws
  - Quick Start Guide
  - Power Adapter (optional)

- Qty/CNT: 10 PCS
- Giftbox size: 158 mm x 203 mm x 63 mm
- Carton meas: 420 mm x 338 mm x 167 mm
- N.W: 2.8kg
- G.W: 3.4kg

## Compliance



## About Yealink

Yealink (Stock Code: 300628) is a global-leading provider of Unified Communication & Collaboration Solutions specialized in video conferencing, voice communications, and collaboration, dedicated to helping every person and organization embrace the power of “Easy Collaboration, High Productivity”.

With best-in-class quality, innovative technology, and user-friendly experiences, Yealink is one of the best providers in more than 140 countries and regions, ranks No.1 in the global market share of IP Phone, and is the Top 5 leader in the video conferencing market (Frost & Sullivan, 2021).

For more information about Yealink, [click here](#).

## Copyright

Copyright © 2023 YEALINK(XIAMEN) NETWORK TECHNOLOGY CO., LTD.

All rights reserved. No parts of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, photocopying, recording, or otherwise, for any purpose, without the express written permission of Yealink(Xiamen) Network Technology CO., LTD.

## Technical Support

Visit Yealink WIKI (<http://support.yealink.com/>) for firmware downloads, product documents, FAQ, and more.  
For better service, we sincerely recommend you to use Yealink Ticketing system (<https://ticket.yealink.com>) to submit all your technical issues.




YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD. Web: [www.yealink.com](http://www.yealink.com)  
Addr: No.666 Hu'an Rd,Huli District Xiamen City, Fujian,  
P.R.C  
Copyright©2023 Yealink Inc. All right reserved.

YEALINK NETWORK TECHNOLOGY CO., LTD.

Email: [sales@yealink.com](mailto:sales@yealink.com)  
Web: [www.yealink.com](http://www.yealink.com)

**Documents / Resources**

	<p><a href="#">Yealink W90 Cordless DECT IP Multi-Cell System</a> [pdf] User Guide W90B, W90DM, W90, Cordless DECT IP Multi-Cell System, W90 Cordless DECT IP Multi-Cell System, DECT IP Multi-Cell System, IP Multi-Cell System, Multi-Cell System</p>
---	---

[Manuals+](#).