

Cordless DECT IP Multi-Cell System

The Yealink W90 DECT IP Multi-Cell System, consisting of three elements - a Virtual Integrator Manager (optional), a DECT Manager W90DM and a base station W90B, 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 VIM system supports up to 10 DM, 600 base stations, 2500 handsets and 2500 simultaneous calls, the W90 multi-cell system supports up to 1 DM, 60 base stations, 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, W73H, CP930W, and DD Phone (T54W DD Phone is not applicable to VIM system) 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.



Up to 600
Base Stations



Compatible with
Multiple Devices



DECT/
SRTP/TLS



Auto-P



Cloud Contact/
LDAP/XML/XSI



HD Audio



Wall Mountable



External Antenna



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 10 DM, 600 bases, 2500 handsets and 2500 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, W73H, 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 10 DM
- Up to 600 base stations
- Up to 2500 handsets
- Up to 2500 SIP accounts
- Up to 2500 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 is based on CAT-1q2.0, which 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/W73H, CP930W and DD Phone

Phone Features

- Sync over the Air and LAN (Seamless handover and roaming)
- Each VIM System
 - Up to 10 DM
 - Up to 600 base stations
 - Up to 2500 handsets
 - Up to 2500 VoIP accounts
 - Up to 2500 simultaneous calls
 - Up to 8 WB (4 active handsets) calls per base
 - Up to 8 NB calls per base
- Each W90 Multi-Cell 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 handset
- Remote phonebook/LDAP/XML phonebook
- Phonebook search/import/export
- Call history (all/misplaced/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
- DM backup (W90 multi-cell system)

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), PCMU (G.711A), PCMA (G.711μ), G.726, G.729, G.729A, 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)
- DECT Standards: CAT-iq2.0

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)

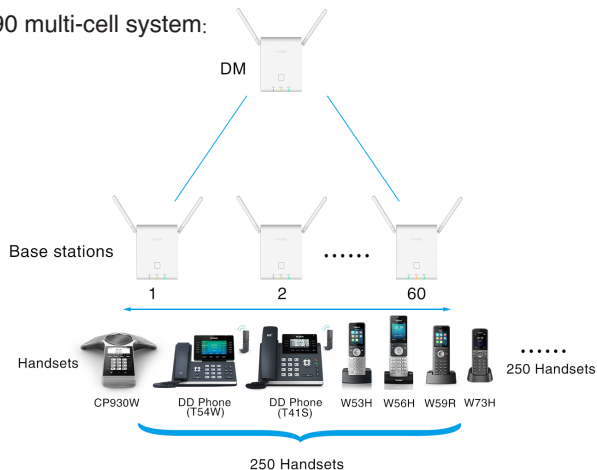
Package Features

- 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

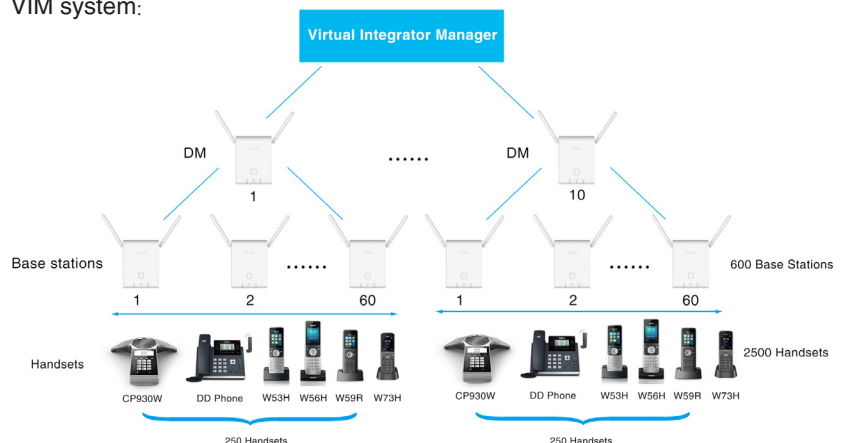
Compliance



W90 multi-cell system:



VIM system:



About Yealink

Yealink (Stock Code: 300628) is a global brand that specializes in video conferencing, voice communications and collaboration solutions with best-in-class quality, innovative technology and user-friendly experience. As one of the best providers in more than 140 countries and regions, Yealink ranks No.1 in the global market share of SIP phone shipments (Global IP Desktop Phone Growth Excellence Leadership Award Report, Frost & Sullivan, 2019).

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