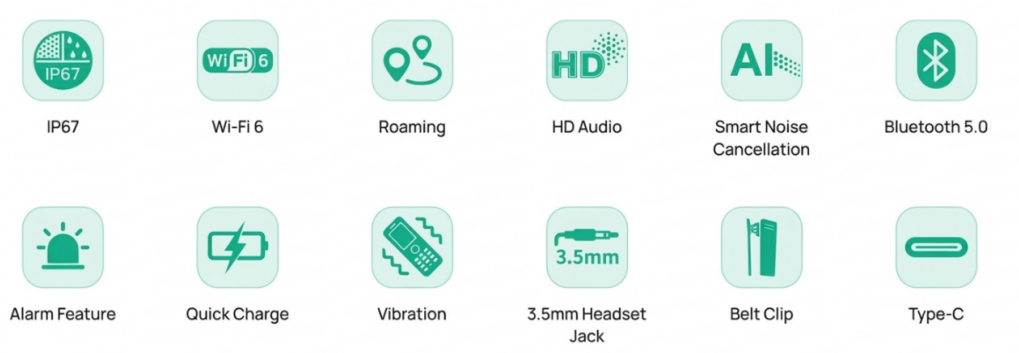
Yealink AX86R Datasheet

A Well-Rounded Wi-Fi IP Phone for Clear Communications

The AX86R is an enterprise portable Wi-Fi IP color screen phone that meets wireless communication needs.

The AX86R meets the IP67 protection standard, effectively providing waterproof, dustproof, and 1.8-meter drop-proof capabilities. The AX86R supports registering up to 4 SIP accounts, 5-way local conferencing, and features a 2.4-inch color display. It integrates Yealink's Optima HD Audio and Smart Noise Cancellation technology to deliver exceptional audio quality and clear voice communication. It is equipped with a built-in Bluetooth 5.0 module and a dual-band 2.4G/5G Wi-Fi 6 module, combined with advanced seamless roaming

technology, allowing you to stay ahead in the ever-evolving wireless era. In addition, AX86R is equipped with a 3100mAh battery, providing a talk time of 13 hours and a standby time of 300 hours. It is widely used in various wireless scenarios such as healthcare, manufacturing, warehouses, transportation, and education.





Key Features and Benefits

- IP67-rated waterproof and dustproof, drop-proof up to 1.8 meters
- 2.4" 240x320 TFT color screen
- Up to 13-hour talk time (Laboratory data)
- Up to 300-hour standby time (Laboratory data)
- Red emergency button and automatic alarm
- Antibacterial design, chemical cleaning resistant
- Dual Band 2.4G/5G Wi-Fi 802.11 a/b/g/n/ac/ax

- Support IEEE802.11k/v/r roaming
- Bluetooth 5.0 for headset
- HD audio, noise cancellation, and acoustic shield
- TRANS and Mute keys
- Up to 4 SIP accounts
- Local 5-way conferencing
- No Perception Upgrade
- Type-C charging
- Wall mountable
- Support YDMP/YMCS

Seamless Roaming Technology, Move Freely

Dual-band Wi-Fi 6 has better anti-interference and faster speed, allowing you to stay ahead in a busy data environment. It supports IEEE802.11 k/v/r fast roaming protocol to achieve automatic network switching in milliseconds. It has built-in Bluetooth 5.0 for Bluetooth headsets, freeing your hands and enabling a freer and more creative way of mobile office collaboration.

Yealink Optima HD Audio and Smart Noise Cancellation Technology, Effective Communication

AX86R provides distraction-free communications with industry-leading Optima HD Voice, Smart Noise cancellation, and Acoustic Shield Technology, which delivers excellent sound quality without extraneous noises and allows fluent conversations. Its hearing aid compatible (HAC) handset helps the person who is with hearing loss to hear the voice more clearly.

Unified Management, Easy Maintenance

Yealink AX series Wi-Fi phones use unified firmware and support unified management through the Yealink Device Management Platform(YDMP), which greatly simplifies management and maintenance costs and facilitates management, upgrades, and maintenance. Additionally, it supports quick network setup through a smartphone and allows for bulk sharing of Wi-Fi networks over the air, enhancing deployment efficiency.

Specifications

Specifications	Description
Audio Features	• Optimal HD audio: HD handset, HD speaker • Hearing aid compatible (HAC) compliant • Acoustic Shield • Audio codec: G.722, PCMU (G.711μ), PCMA (G.711A), G.729, G.729A, G.729B, G.729AB, G.726, G.723.1, iLBC

	DTMF: In-band, Out-of-band (RFC 2833) and SIP INFO • Full-duplex hands-free speakerphone with AEC • Dual Noise-Canceling Microphones • Smart Noise Cancellation Technology • VAD, CNG, AEC, PLC, AJB, AGC
Display and Indicator	• 2.4" 240x320 TFT color screen • Keypad backlight • Vibration • Wallpaper and screensaver • LED for call and message waiting indication • Multilingual user interface • Caller ID with name, number, and avatar
Phone Features	• 4 VoIP accounts • Speed dial, redial • Call hold/call transfer/call waiting/call forward • Emergency call • Mute, DND • Auto answer • Hotline • Recall • Local 5-way conferencing • Direct IP call without SIP proxy • Ring tone selection/import/delete • Set date and time manually or automatically • Dial Plan, XML Browser, Action URL/URI • RTCP-XR (RFC3611), VQ-RTCPXR(RFC6035) • Customizable softkey
Peripherals	• Support Bluetooth headset - Basic functions: answer/end/mute call - Enhanced functions: redial/call hold/volume adjustment two-way synchronization
IP-PBX Features	• Anonymous call, anonymous call rejection • Intercom

	• Multicast paging • Call completion • Message Waiting Indicator (MWI) • Call park, call pickup • Call recording • Voice mail
Directory	• Local phonebook up to 1000 entries • Blocklist • XML/LDAP remote phonebook • Google contacts • Smart dialing • Phonebook search/import/export • Call history: All calls/dialed/received/missed/forwarded
Feature Keys	• 3 soft keys • 6 function keys: dial, hang up, handsfree, voice message, mute, call transfer • Navigation key and OK key • Volume control keys • Alarm Key • PTT Key
Interface	• 1 x 3.5 mm headset jack • 1 x Type-C port
Management	• Configuration: browser/phone/auto-provision • Auto provision via FTP/TFTP/HTTP/HTTPS for mass deployment • Auto-provision with PnP • TR-069 • Phone lock for personal privacy protection • Reset to factory, reboot • Package tracing export, system log • Supports Yealink Device Management Platform (YMDP/YMCS)
Network	• Built-in dual-band Wi-Fi: - Network standard: 2.4G&5G, IEEE802.11a/b/g/n/ac/ax - Frequency range: 2.4 GHz/ 5.0 GHz - Roaming: IEEE802.11 k/r/v

	• Built-in Bluetooth 5.0: - Connecting to Bluetooth Headset • IPv4/IPv6 • SIP v1 (RFC2543), v2 (RFC3261) • Call server redundancy supported • NAT traversal: STUN mode • SIP link mode: Proxy mode and peer-to-peer • IP Assignment: static/DHCP • HTTP/HTTPS web server • Time and date synchronization using SNTP • UDP/TCP/DNS-SRV (RFC 3263) • ARP, ICMP • QoS: Layer 3 ToS DSCP, 802.11e/WMM
Security	• SRTP for voice • TLS1.3 support • HTTPS certificate manager • AES encryption for configuration file (AES256) • Digest authentication using MD5/MD5-sess • OpenVPN, IEEE802.1X • WPA, WPA2, WPA3 • Secure boot • GARP (Generic Attribute Registration Protocol)
Power	• Power adapter: AC 100~240V input and DC 5V/2A output
Environmental Factors	• Operating humidity: 10%-95% • Operating temperature: 0 to 40°C (+32 to 104°F) • Storage temperature: -30 to 70°C
Other Physical Features	• Safe drop height: 1.8 m • Protection rating: IP67 • Chemical cleaning resistant • Antibacterial design • Battery: 3100mAh, Rechargeable Lithium-ion Battery, 3.7V, 11.47Wh - Up to 13-hour talk time (Laboratory data) - Up to 300-hour standby time (Laboratory data)

Package	• Handset size: 160.1 x 55.3 x 25.85 mm
Features	• Handset weight: 218 g
	• Giftbox size: 181 × 104 × 90 mm
	• Carton meas: 473× 443× 198 mm
	• Qty/CTN: 20 PCS
	• G.W/CTN: 9.848 kg
	• N.W/CTN: 9.02 kg
	• Package contents
	- Yealink AX86R Phones
	- Charger Cradle
	- Rechargeable Battery
	- Belt Clip
	- Quick Start Guide
	- Power Adapter
Compliance	

Click here to go to the product introduction on the Yealink official website.