



## BOGEN STAFF PHONE— LCD DISPLAY

### Model NQ-T2000



#### DESCRIPTION

The Bogen NQ-T2000 VoIP staff phone (by Yealink) offers a 132x64 pixel, 2.3 inch, backlit graphical LCD display that is crisp, clear, and easy-to-use. The NQ-T2000 is a cost-effective, entry-level phone that offers rich visual information and HD Voice. It has dual 10/100 Mbps network ports with integrated PoE support for today's modern networks.

#### KEY FEATURES & BENEFITS

##### HD Audio

HD Voice refers to the combination of the phone's software and hardware design, as well as the implementation of wideband technology to maximize acoustic performance. Coupled with advanced acoustic clarity technologies, such as full duplex operation, echo cancellation, adaptive jitter buffer, etc., the NQ-T2000 provides clearer, more life like voice communications.

##### Enhanced Call Management

The NQ-T2000 supports numerous productivity-enhancing features such as busy lamp field, call park, call pickup, call forward, call transfer, and 3-way conference.

##### Efficient Installation and Provisioning

Integrated IEEE 802.3af Power-over-Ethernet (PoE) capability allows easy deployment with centralized powering and backup. The NQ-T2000 supports auto-provisioning via the E7000 system server for mass deployment.

##### Secure Transport and Interoperability

The NQ-T2000 uses SIP over Transport Layer Security (TLS/SSL), which is the latest network security technology.

#### ADDITIONAL FEATURES

##### Audio Features

- HD voice: HD handset, HD speaker
- Wideband codec: G.722 , Opus
- Narrowband codec: G.711(A/μ), G.723.1, G.729AB
- DTMF: In-band, Out-of-band (RFC 2833) and SIP Information
- Full-duplex hands-free speaker phone with AEC

##### Phone Features

- Call hold, mute, DND
- One-touch speed dial, hotline
- Call forward, call waiting, call transfer
- Group listening, SMS, emergency call
- Redial, auto answer
- Local 3-way conferencing
- Ring tone selection/import/delete
- Set date time manually or automatically
- RTCP-XR (RFC3611)

##### Directory

- Local phone book up to 1000 entries
- Blacklist
- Nyquist XML remote phone book
- Phone book search/import/export
- Call history: dialed/received/missed/forwarded

##### Management

- Configuration: browser/phone/auto-provision
- Auto-provisioning via Nyquist server for mass deployment
- Phone lock for personal privacy protection
- Reset to factory, reboot
- Packet tracing export, system log

##### Interface

- 2 x RJ45 10/100M Ethernet ports
- Power over Ethernet (IEEE 802.3af), Class-2
- 1 x RJ9 (4P4C) handset port
- 1 x RJ9 headset port



The **E7000 Series** is built upon Bogen's award-winning Nyquist software-based IP communications platform, which provides users with unparalleled flexibility and scalability, whatever their application.

## ADDITIONAL FEATURES

### Network and Security

- SIP v1 (RFC2543), v2 (RFC3261)
- NAT transverse: STUN mode
- Proxy mode and peer-to-peer SIP link mode
- IP assignment: static/DHCP
- HTTP/HTTPS web server
- Time and date synchronization using SNTP
- UDP/TCP/DNS-SRV (RFC 3263)
- QoS: 802.1p/Q tagging (VLAN), Layer 3 ToS
- DSCP
- SRTP for voice
- TLS
- HTTPS certificate manager
- OpenVPN, IEEE802.1X
- IPv6

### Other Physical Features

- Wall mountable
- External universal AC adapter (optional): AC 100-240V input and DC 5V/600mA output
- Power consumption (optional AC adapter): 2 - 3W
- Power consumption (PoE): 3 - 4W
- Dimensions (W x D x H x T): 188mm x 189mm x 162mm x 50mm
- Operating humidity: 10%–95%
- Operating temperature: -10°C –50°C (+14 - 122°F)

### Package Contents

- Bogen NQ-T2000 VoIP phone base unit
- Handset with handset cord
- Ethernet Cable (1.5m CAT5E UTP Cable)
- Detachable Stand
- Quick Start Guide

## A & E SPECIFICATIONS

The Nyquist VoIP Staff Phone (NQ-T2000) with LCD display panel shall show the time of date and the station numbers and call-in priority of staff stations that are calling in. Depending upon the system CoS programming, a VoIP Staff Phone can display menus to activate Zone Paging, All-Call Paging, Emergency All-Call Paging, alarm signals, audio files, and external functions. The Staff phone has been designed with two RJ-45 Gigabit Ethernet ports one for connection to a PoE port on the LAN and one passthrough for connecting a PC or other networked device. Desk or wall mountable with included bracket. Systems that do not provide these capabilities as a minimum will not be considered equal.

### Limited Warranty, Exclusion of Certain Damages

The **NQ-T2000** is warranted to be free from defects in materials and workmanship for five (5) years from the date of sale to the original purchaser. Any part of the product covered by this warranty that, with normal installation and use, becomes defective (as confirmed by Bogen upon inspection) during the warranty period will be repaired or replaced by Bogen, at Bogen's option, with new or refurbished product, provided the product is shipped insured and prepaid to: Bogen Factory Service Department: 4570 Shelby Air Drive, Suite 11, Memphis, TN 38118, USA. Repaired or replacement product(s) will be returned to you freight prepaid. This warranty does not extend to any of our products that have been subjected to abuse, misuse, improper storage, neglect, accident, improper installation or have been modified or repaired or altered in any manner whatsoever, or where the serial number or date code has been removed or defaced.

**THE FOREGOING LIMITED WARRANTY IS BOGEN'S SOLE AND EXCLUSIVE WARRANTY AND THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY. BOGEN MAKES NO OTHER WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED AND EXCLUDED TO THE MAXIMUM EXTENT ALLOWABLE BY LAW.** Bogen's liability arising out of the manufacture, sale or supplying of products or their use or disposition, whether based upon warranty, contract, tort or otherwise, shall be limited to the price of the product. **IN NO EVENT SHALL BOGEN BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, LOSS OF DATA OR LOSS OF USE DAMAGES) ARISING OUT OF THE MANUFACTURE, SALE OR SUPPLYING OF PRODUCTS, EVEN IF BOGEN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSSES.** Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

Products that are out of warranty will also be repaired by Bogen Factory Service Department -- same address as above or call 201-934-8500, at owner's expense. Returned products which do not qualify for warranty service, may be repaired or replaced at Bogen's option with a previously repaired or refurbished items. The parts and labor involved in these repairs are warranted for 90 days when repaired by the Bogen Factory Service Department. All parts and labor charges as well as shipping charges will be at the owner's expense.

All returns require a Return Authorization number. For most efficient warranty or repair service, please include a description of the failure.

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