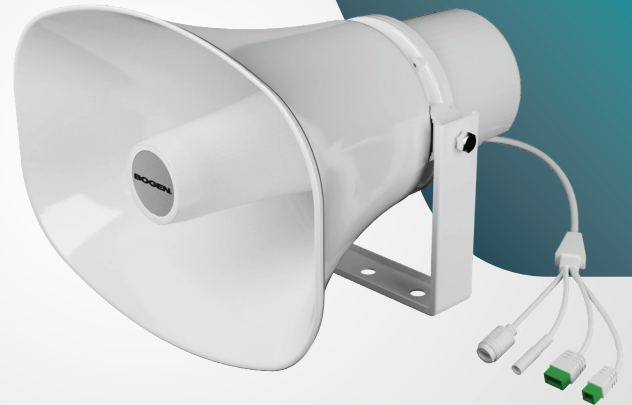




## Bogen Nyquist VoIP Indoor/Outdoor IP Horn with Talkback (Model NQ-IPHRN01)



### Description

The Bogen **Nyquist NQ-IPHRN01 VoIP Indoor/Outdoor IP Horn with Talkback** is a rugged, commercial-grade IP solution designed for clear, reliable HD audio in demanding environments. It can operate in standalone configuration or seamless integration in the Nyquist ecosystem. There is no need for external amplifiers, traditional wiring, or transformer taps to manually set or adjust. Connect the horn via Cat5 to a PoE or PoE+ Switch (or add optional PoE Injector for non-PoE switch), and it is ready to operate. Volume is controlled via the Nyquist system's Web UI. With an IP66-rated enclosure, the NQ-IPHRN01 offers superior protection against water and dust, making it ideal for dependable performance for indoor and outdoor installations.

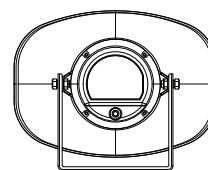
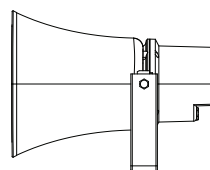
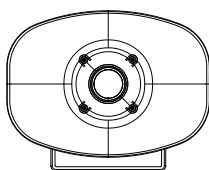
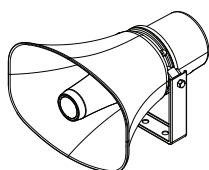
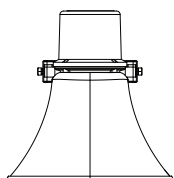
### Key Benefits

- ✓ **Excellent Sound Quality** – Supports HD intercom and music broadcasting
- ✓ **Flexible Integration** – Compatible with standard SIP protocol, HTTP API, and short-circuit input/output
- ✓ **Rugged Protection** – IP66-rated waterproof and dustproof design for reliable performance in harsh environments

### Features

- 10/100 Ethernet connection
- PoE Class-3 - IEEE 802.3af compliant (8-watts)
- PoE+ Class-4 - IEEE 802.3at compliant (15-watts)
- DC operation 24V/2A auxiliary supply (30-watts) (not included)

- DHCP deployment for easy installation
- Zone Paging (17 zones if audio type not included in zones. 8 zones if audio type included on all zones)
- Intercom (with support for Bogen CA15C Analog Call-Switch to activate call from NQ-IPHRN01)
- Opus Codec capability for intercom and audio distribution
- Intercom using SIP TLS and SRTP for security and voice encryption
- Volume Control (intercom speaker output, intercom microphone gain, multicast paging/audio speaker output; one volume controls all paging zones)
- Normally open external relay trigger when audio plays to speaker



## Physical Specifications

- Dimensions: 11.22" W x 11.22" D x 8.07" H
- One (1) DC 24V/2A jack barrel connector for auxiliary supply when using non-PoE switch DC power (not included)
- One (1) RJ45 port: connect to the LAN
- One (1) contact closure input terminal
- One (1) contact closure output terminal Max 30V/2A
- Color: White

## Technical Specifications

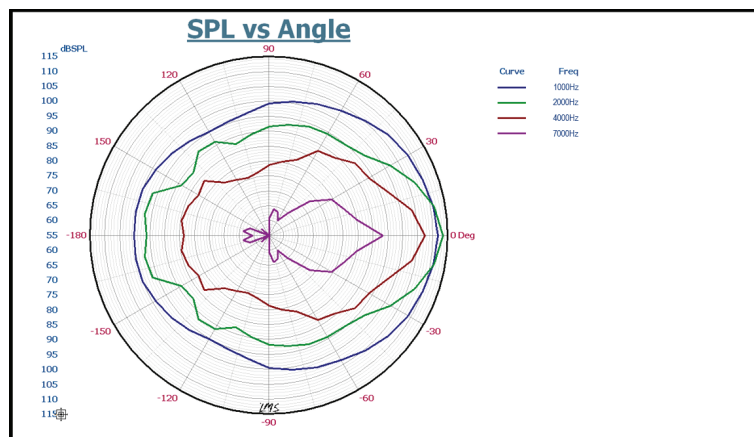
### Speaker

<b>Frequency Response:</b>	350Hz - 7.5kHz
<b>Sensitivity:</b>	107 dB $\pm$ 3 dB (1m/1W)
<b>Impedance:</b>	8 $\Omega$
<b>Max SPL:</b>	120 dB (1m/30W) 117 dB (1m/15W) 114 dB (1m/8W)
<b>Speaker power:</b>	PoE: 8W   PoE+: 15W
<b>Auxiliary supply:</b>	30W

### Microphone

<b>Microphone:</b>	Omnidirectional
<b>Sensitivity:</b>	38 dB $\pm$ 3 dB, impedance 2.2k ohm, bias voltage 2V

## NQ-IPHRN01 Polar Plot



## Applications



Healthcare



Education



Corporate



Transportation



Industrial



Government



Retail

## A & E Specifications

The loudspeaker shall be a Bogen Model NQ-IPHRN01 (or approved equivalent), reentrant type horn loudspeaker with talkback. The frequency response shall be 350 Hz to 7.5 kHz. Rated Power output shall be PoE: 8-watts, PoE+: 15-watts, DC 24V/2A: 30-watts. Max sound pressure level, measured at one meter 30 Watts on axis @ 1000 Hz shall be at least 120 dB with a sensitivity of 107 dB  $\pm$  3 dB.

The loudspeaker shall be IP66 waterproof and dustproof, suitable for all kinds of harsh environments, ABS plastic construction, with driver enclosed within a waterproof housing. An all-purpose U-bracket shall provide precise positioning in the vertical and horizontal planes. The loudspeaker shall have an operating temperature of -30°C to 60°C and a storage temperature of -40°C to 70°C with a working humidity of 10% to 95%.

The loudspeaker shall not require traditional intercom wiring or transformer taps to manually set or adjust volume. Powered by PoE, PoE+, or DC 24V/2A external power supply (not included) and connected to the Nyquist system's network allows them to be programmed into the system.

Volume control of the integrated amplifier shall be managed via the Nyquist Admin Web UI. The IP Horn shall contain one SPST OUTPUT dry relay maximum voltage 30V @ 2.0 A "Multi purpose input" A contact closure on this input can be used to initiate an intercom call or an area check-in.

The IP horn uses a wideband Opus codec for audio distribution and intercom. Use of the Opus codec allows the horn to deliver high-definition audio. Systems that don't use Opus codecs for audio distribution and intercom shall not be considered equal.

The loudspeaker shall be equipped with an omnidirectional microphone with a conical pickup pattern, with sensitivity of: -38 dB  $\pm$  3 dB, impedance 2.2k ohm, and bias voltage 2V.

### LIMITED WARRANTY, EXCLUSION OF CERTAIN DAMAGES

**NQ-IPHRN01** 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 item. 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.

09/2025