NQ-IPHRN01 Indoor/Outdoor IP Horn with Talkback

Quick Installation Guide

BOGEN®

Package Contents

NQ-IPHRN01 Indoor/Outdoor IP Horn

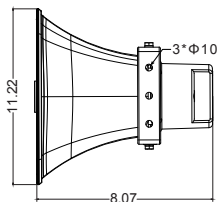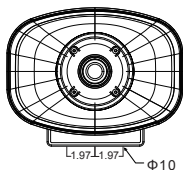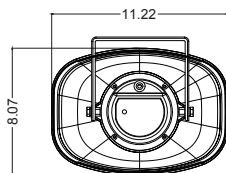M10 Screws, Washers, and Wall Anchors
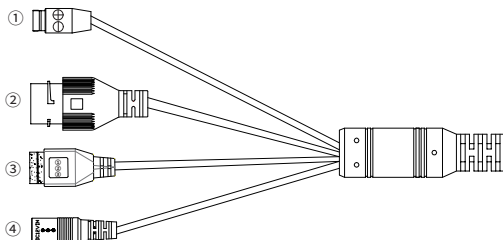

Quick Installation Guide

Physical Specification

Size: 11.22" x 8.07" x 11.22" (285mm x 205mm x 285mm)
Weight: 4.2lbs (1.9kg)

1. Three-view drawings

11.22

8.07

1.97 1.97 Φ10

11.22

3*Φ10

8.07

U-shaped bracket
Wiring harness

2. Wiring harness

Serial number	Description	Interface
①	The short circuit input interface: input devices for connecting call-in switches.	⊕ S1 ⊖ GND
②	Ethernet interface: standard RJ45 interface, 10/100M adaptive, support PoE+ powered, it is recommended to use CAT5 or better network cable.	
③	The short circuit output interface: Can be enabled via Nyquist web interface station parameter "External Relay Trigger" to close the contact whenever audio is being received by the Nyquist server and played by the NQ-IPHRN01 speaker.	①NO ②COM ③NC
④	Power interface: DC 24V/2A input.	− +

3. External device connection diagram

Model 1: DC Power

Ethernet switch — WAN

Optional power adapter* — DC input

Relay in — Call-in Switch

Relay out — NC COM NO — Alarm light or External Audio Device

Model 2: PoE

PoE+ switch — WAN

Relay in — Call-in Switch
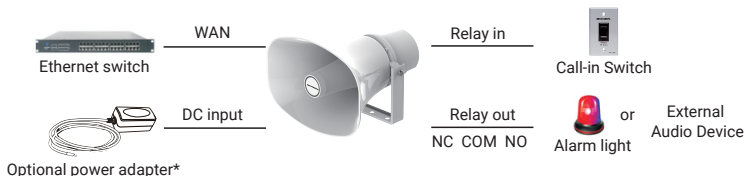
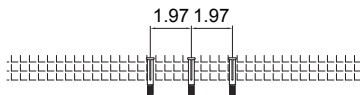Relay out — NC COM NO — Alarm light or External Audio Device
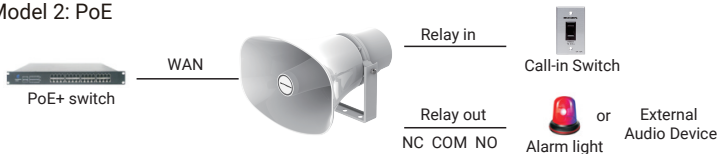
*Optional power adapter or PoE+ power injector

Installation Diagram

A. Drill three mounting holes suitable for M10 screws and wall anchors on the wall first, and the distance between the holes is 1.97" (50mm).

Then install the M10 wall anchors.

1.97 1.97

B. Align the holes on the product backet with the pre-drilled holes on the wall and secure in place using the M10 screws and washers.
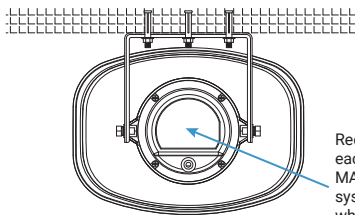
Record the MAC address for each IP Horn location. The MAC address is used by the system to identify the device when configuring the IP Horn.

C. Then adjust the required angle of the loudspeaker. Tighten the bolts holding the bracket to the horn as necessary to keep it in place.
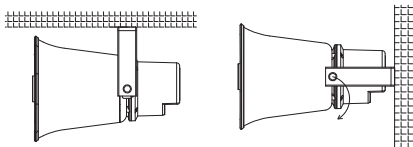
D. Power on the device. If it works normally, the installation is complete.
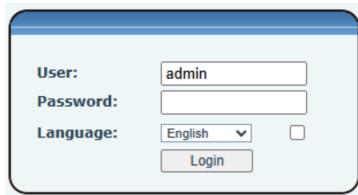
Horn Speaker Settings

By default, the NQ-IPHRN01 is configured to use DHCP with Option 66. When using DHCP with Option 66, the horn will automatically receive an IP Address from the DHCP server and will automatically be configured by the Nyquist server specified by Option 66.

The following instructions are for configuring the NQ-IPHRN01 using a Static IP address.

Step 1: Log in to the web setting page of the horn speaker.

Input IP address of NQ-IPHRN01 (e.g. http://172.18.26.3) into the address bar of PC's web browser.

The default username and password are both admin.

Step 2: Configure IPv4 Settings

Select Network tab on left, select "Static IP", then enter: ETH IP, Subnet mask, Default gateway, Primary DNS Server, Secondary DNS Server.

Press "Apply" to save changes.

Figure: Network settings (Basic) – Using Static IP

If you're using the Nyquist DHCP server, or other DHCP server that supports Option 66 being set to the Nyquist server's IP address, you can select "DHCP" under IPv4 Settings:

Figure: Network settings (Basic) – Using DHCP

Step 3: Configure Static Provisioning Server

1. Select System tab on left.
2. Select "Auto Provision".
3. Select "Static Provisioning Server".
4. Enter the following information:
   - Server Address: Nyquist server's IP address
   - Configuration File Name: IP Horn's MAC address
       Format: <MAC-Address>.cfg
       Example: 0c383e6f2838.cfg
   - Protocol Type: TFTP
   - Update Interval: 1
   - Update Mode: Update After Reboot
5. Press "Apply" to save changes.

Figure: Auto Provision settings – Static Provisioning Server