Bogen Nyquist VoIP Double-Sided LED Message Display & Flasher
(Model NQ-DSC01)

Description

Designed primarily for educational facilities yet fully suited for commercial spaces, the Double-Sided Combo Unit is an indoor, wall- or ceiling-mounted VoIP device for hallways and open areas, featuring a dual-sided, multi-color LED display, integrated flasher, and dual loudspeakers for clear, campus- or facility-wide communication.

Engineered for seamless operation within the Bogen Communications Nyquist ecosystem, the unit supports full intercom functionality and when paired with the optional NQ-E7020-G2 Call Switch or NQ-VCTRL Remote Volume/Call Switch can initiate SIP calls with any Nyquist endpoint or compatible third-party SIP device.

Its bright, dual-sided LED display supports Nyquist-generated text messages, with over 18 customizable color options including red, yellow, green, amber, blue, violet, and/or white colors available down to the individual character. Both single- and dual-line message formats ensure flexibility for daily announcements, time-sensitive alerts, and critical notifications.

With full Nyquist software integration and guided setup wizards, the Double-Sided Combo Unit delivers reliable, easy-to-deploy, and highly visible communication for both school and commercial environments.
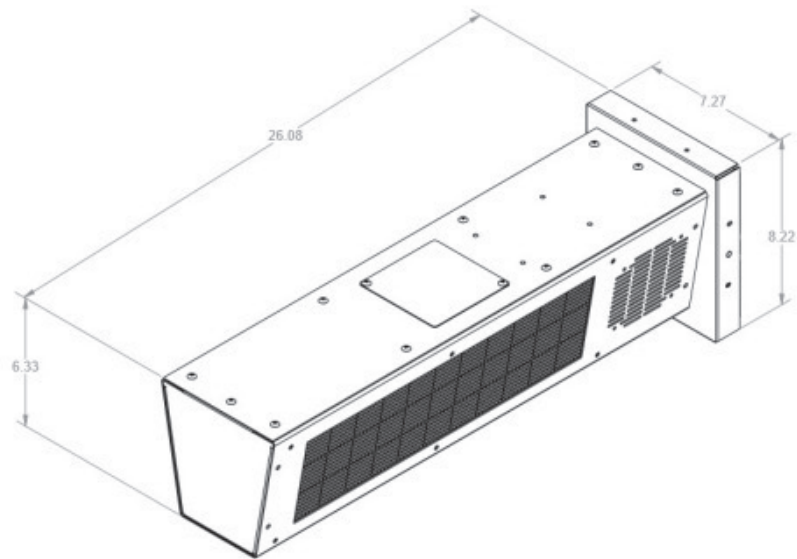
Key Benefits

✓ **Flexible Installation Options** — Supports wall, ceiling, and suspended-ceiling mounting to accommodate a wide range of facility layouts.

✓ **Long-Distance Visibility** — Bright, dual-sided LED display ensures messages or clock information remain clearly legible from up to 30 feet away.

✓ **Versatile Messaging Capability** — Displays date and time as a running clock, single static messages with a maximum of eight characters, or scrolling messages up to 63 characters.

✓ **Single or Dual Line Display** — Supports both single- and dual-line text formats for flexible communication needs.

✓ **Enhanced Alerting & ADA Support** — Integrated multi-color flashers highlight important events, drawing attention to visual and audio messages to support ADA-compliant notification requirements.

Features

- 10/100Base-T Ethernet

- Dynamic or static IP address

- Integrated 20W Class D amplifier

- High-contrast scrolling RGB color LED

- RGB-selectable flashing LED display for visual alert

- MEMS microphone for superior overhead talkback

- CAN BUS 2.0 Interface connects to Nyquist Digital Call Switches (NQ-E7020-G2) or NQ-VCTRL Remote Volume Controls

Line Drawing of Model NQ-DSC01

Technical Specifications

Audio Inputs and Outputs

Codecs:	Opus, G722
Frequency Response:	~300Hz – 15 kHz (+/- 3dB)
Sensitivity:	96 dB +/- 3dB
Power Amplifier:	20W into 4 ohms
S/N:	>65dB
Line level input:	2V maximum via Phoenix Connector
Line level output:	20W into 4 ohms (minimum impedance) via Phoenix connector pins 1 and 2.
Dry relay contacts:	NO/COM/NC Maximum 24VDC @ 2.0A via Phoenix Connector.

Product Dimensions

Product Weight: 11 lbs
Physical Dimensions: 24.75" W x 7.5" D x 8.22" H

Applications

Healthcare   Industrial   Education   Government   Transportation

A & E Specifications

The Nyquist VoIP Double-Sided LED Message Display and Flasher or DSC01 (NQ-DSC01) shall not require traditional intercom wiring or transformer taps to manually set or adjust volume. Connecting one via Cat5 to a PoE+ Switch or PoE+ Injector on the Nyquist system's network allows it to be programmed into the system. Volume control of the integrated 20-watt amplifier shall be managed via the Nyquist Web UI. The DSC01's Large dual-sided RGB (red, orange, yellow, amber, green, blue, violet, white, magenta, pink, deep-pink, lime, spring-green, turquoise, cyan, ocean, blue-violet, and indigo) LED messaging display shall be capable of displaying 12/24-hour time with or without seconds along with day of the week, month, and date. Using Routines, the display brightness can be adjusted to high, medium, low, or off. The large display is designed for maximum visibility in a hallway and is clearly legible for up to 30 feet away. The DSC01 displays user-programmable messaging for standard or emergency announcements. Messages can be up to 63 uppercase characters (lowercase characters will display as uppercase) and, if too long to fit on the display, will scroll. If enabled, a clock showing the date, hour, minutes, and seconds will be displayed on the LED panel whenever a message is not being displayed.
The independent LED Flasher can be activated by common system features like Emergency All-Calls or zone pages, playing announcements, tones, or enabled via Routines. The flasher color is controlled through the Nyquist Web UI. The DSC01 contains one SPDT type control relay output rated at 2A @ 24V DC with the following connections: NC (Normally Closed); Common; NO (Normally Open); and G (Ground). The DSC01 uses a wideband Opus codec for audio distribution. Use of the Opus codec, along with G.722, allows the speakers to deliver High-Definition audio. Systems that don't use Opus codecs for audio distribution shall not be considered equal. Nyquist DSC01 speakers shall be equipped with a MEMS microphone for superior talkback audio when enabled. The DSC01 speakers shall contain a Reset button for restoring the appliance back to its factory settings.