

NETWORK VIDEO DISTRIBUTION AND BYOD SUPPORT

# GoGuardian

## Q-SYS Platform Maximizes Learning Potential at GoGuardian

📍 El Segundo, CA

[GoGuardian](#) has been changing the way that K-12 schools maximize the learning potential of every student. GoGuardian software helps schools easily manage their devices, better understand their students, and keep them safer online. With a recent move into a new office space, the company wanted to upgrade its AV infrastructure, and chose the [Q-SYS Platform](#), along with Q-SYS amplifiers and loudspeakers.



“ **Q-SYS has brought a vast improvement to our AV infrastructure.** ”

**James Quaranta**  
AV/IT Specialist, GoGuardian

# Challenges

GoGuardian was in need of an end-to-end network AV solution that would meet the demands of modern conferencing, along with BGM (background music) distribution support and software-based control.



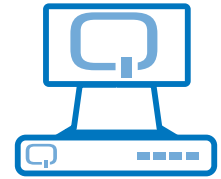
### Network Video Distribution

GoGuardian required a routable network video solution that would support meeting and presentation needs.



### Web Conference Integration

With [Google Meet](#) as their standard web conferencing platform, it was important that the AV solution helped scale that experience into the conference spaces.



### Fully Integrated Solution

As the planning process progressed, it became clear that a single-vendor solution would deliver on current needs while being future-ready for system expansion.



# Solutions

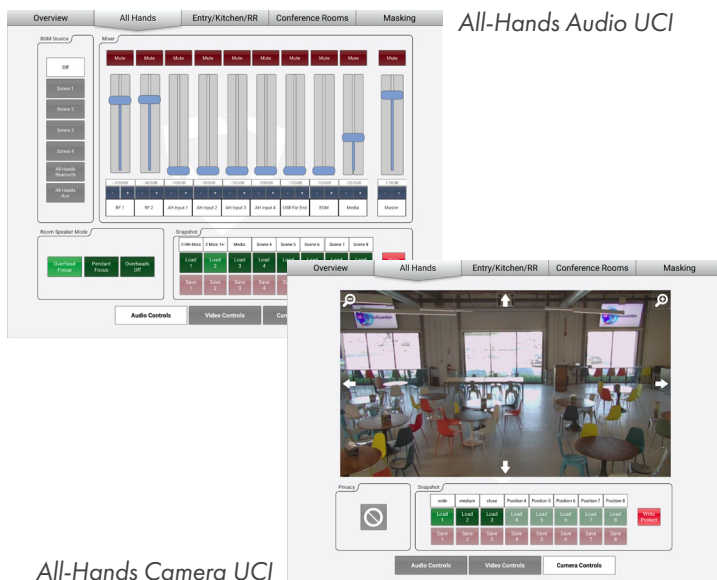
The new GoGuardian space has two conference rooms amongst a primarily open format office that includes a large all-hands space where many company meetings and events take place. Working alongside integrator [Wired Media Solutions](#), they deployed the fully-integrated Q-SYS Core 510i processor (now available as the updated [Q-SYS Core 610](#)) and native Q-SYS endpoints to manage the audio, video & control processing for the facility, while deploying Q-SYS loudspeakers and amplifiers throughout.

## Now Presenting

Meeting and presentation support was a key requirement, fulfilled by the [Q-SYS NV-32-H Network Video Endpoint](#), which provides software based HDMI video distribution throughout. The all-hands room (which doubles as a cafeteria and work area) features a large projector screen with two side monitors, each capable of displaying a 4K60 network video source. For presenters, an additional NV-32-H (set as an encoder) in the podium provides an easy way to share presentation content (via HDMI) on the room's screens.

An added benefit of the NV-32-H is built-in AV bridging, enabled by a driverless USB connection. This lets the presenter connect a laptop and share the room's audio and conference camera feed (provided by a Q-SYS conference camera) with Google Meet (or any other softcodec conferencing application), letting them easily connect with remote employees.

In both conference rooms, a single display presents decoded network sources from an NV-32, while a [Q-SYS I/O-USB Bridge](#) also provides AV bridging for users that need to integrate with Google Meet on their personal devices.



## Sound Matters

In the smaller conference room, a [Q-SYS SPA Series Amplifier](#) is paired with [Q-SYS AcousticDesign Series](#) ceiling-mount loudspeakers, while the larger conference room pairs the same amplifier with [AD Series SUB/SAT loudspeakers](#). Lastly, the GoGuardian team deployed AD Series pendant-mount loudspeakers in the all-hands room and entryway. Because AD Series loudspeakers maintain consistent tonal characteristics across all form factors, there is never any noticeable audio transition when moving between zones.

The pendant-mount loudspeakers are powered by a CXD-Q Series network amplifiers, which integrate seamlessly into the Q-SYS Platform and provide advanced telemetry and control via [Q-SYS Touch Screen Controllers](#) without the need for any programming.

## Complete Control

A single [user control interface \(UCI\)](#) provides customized controls for each area of the building on an iOS device, and is managed by GoGuardian's AV/IT support team. The entryway, conference rooms and all-hands space allow users to select from a number of background music sources, including a Bluetooth® source that is enabled by the [Attero Tech unD6IO-BT Network Audio Interface](#). The conference rooms adds USB far-end audio level adjustment, while the all-hands space adds a number of Q-SYS video controls, including [PTZ-IP Conference Camera](#) controls and snapshot recall, video source select, microphone gain control, and audio level controls for the room.

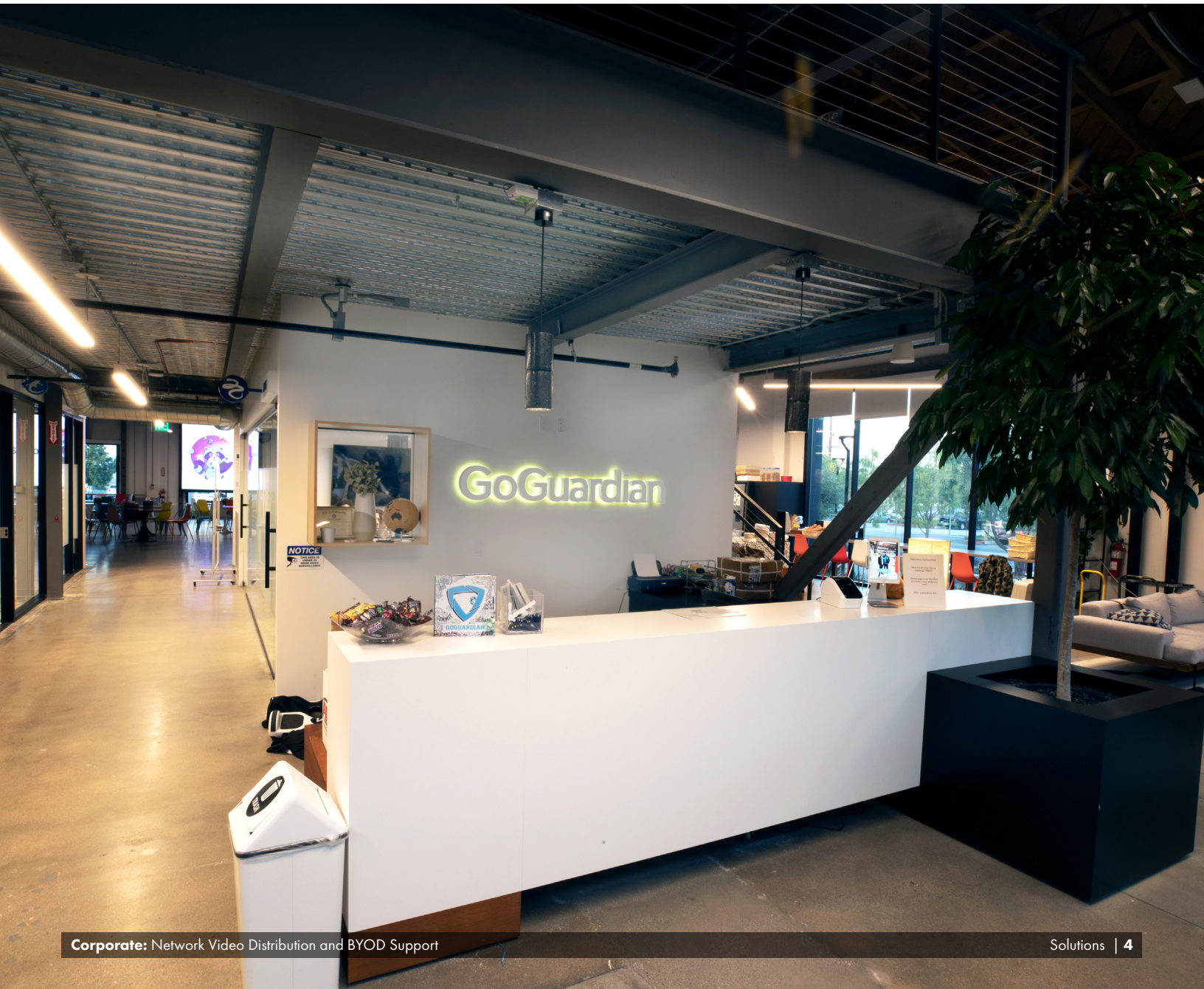


# Solutions

## Fully Integrated & Looking Forward

By deploying an end-to-end Q-SYS solution, GoGuardian has the peace-of-mind that all of the components were designed to operate seamlessly together. “Q-SYS has brought a vast improvement to our AV infrastructure,” explains James Quaranta, AV/IT Specialist at GoGuardian. “From an operational standpoint, it is much easier to be able to manage and support all AV from a single application. And since all of the AV processing happens in a single device, there is far less hardware to support than more traditional systems.”






The company looks forward to continued growth and knowing that their Q-SYS system will scale along with that growth is a huge win. “We went into this project knowing that the system would need to expand in the future, and that is really what makes Q-SYS stand out in from other solutions,” Quaranta continued. “Because it is software-based, we’ll be able to expand by simply adding AV endpoints, without needing to worry about unnecessary and costly processing hardware. We are really glad we chose to work with Q-SYS.”



# Q-SYS Equipment List

Model	Pcs Used	Description	Image
Core 510i (now available as the updated <a href="#">Core 610</a> )	1	Q-SYS Integrated Core Software-based audio, video & control processor Network I/O: 256 x 256 8x audio I/O card slots	
<a href="#">CDN64</a>	1	Q-SYS network I/O card 64 x 64 Dante™ audio channels	
<a href="#">CIAES16</a>	1	Q-SYS network I/O card 16-ch AES/EBU inputs	
<a href="#">CIML16</a>	1	Q-SYS network I/O card 4-ch mic/line analog inputs	
<a href="#">COL4</a>	1	Q-SYS network I/O card 4-ch line analog output	
<a href="#">NV-32-H</a>	6	Q-SYS network video endpoint 3 x 2 HDMI I/O software-configurable as encoder or decoder	
<a href="#">PTZ-IP 12x72</a>	1	Q-SYS conference camera Motorized pan, tilt, zoon (PTZ) Resolutions up to 1080p60	
<a href="#">I/O-USB Bridge</a>	2	Q-SYS I/O peripheral AV bridging endpoint offering BYOD support Driverless USB 2.0 connection	
<a href="#">AD-P6T</a>	19	AcousticDesign Series pendant-mount loudspeaker, 6.5 in	
<a href="#">AD-C6T</a>	6	AcousticDesign Series ceiling-mount loudspeaker, 6.5 in	
<a href="#">AD-S.SUB</a>	2	AcousticDesign SUB/SAT Series Surface-mount subwoofer, 6.5 in	
<a href="#">AD-S.SAT</a>	8	AcousticDesign SUB/SAT Series Surface-mount satellite loudspeaker, 2.75 in	
<a href="#">AP-5122</a>	2	AcousticPerformance Series Two-way surface-mount loudspeaker 12 in LF transducer, 3 in HF transducer	

# Q-SYS Equipment List

Model	Pcs Used	Description	Image
<a href="#">CXD8.8Q</a>	1	CXD-Q Series 8-ch Q-SYS network amplifier with 8 mic/line inputs, 850 W/ch at 8 Ω	
<a href="#">SPA2-200</a>	2	SPA Series half-rack power amplifier 200 W/ch at 4 Ω or 8 Ω	
<a href="#">Attero Tech unD6IO-BT</a>	1	Wall-mount network audio interface (Dante/AES67) 4 x 2 multi I/O with Bluetooth® audio	
<a href="#">Attero Tech unDX2IO+</a>	1	Wall-mount network audio interface (Dante/AES67) 2 in (XLR) x 2 in (Phoenix) x 2 out (XLR)	
<a href="#">Attero Tech Axon C1</a>	1	Single-Gang network audio controller	



Q-SYS is a globally recognized manufacturer of audio, video and control (AV&C) solutions for huddle rooms to stadiums—and everything in between. Our systems make it easy for your team to design and integrate flexible, scalable solutions and deliver the native IT integration and standards-based technology your customers expect.

[qsys.com](http://qsys.com)

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