



Yamaha Webinar Series: Digital Technology Solution Q&A Sheet

No.	Question	Answer
1	What's the difference between ADAPTIVE echo cancellation versus ACOUSTIC echo cancellation? I always thought AEC stood for "acoustic" vs. "adaptive."	<p>ACOUSTIC ECHO CANCELLATION (AEC): This is usually the first process in a DSP signal chain, and it prevents unwanted echoes. Without echo cancellation, your voice would be amplified on the other party's system ("the far end"), get picked up by their microphone, and then playback again on your speakers. AEC subtracts that audio from the microphone's signal before any echo can occur.</p> <p>Unfortunately, many may not realize they have an echo problem if not for the far-end announcing it.</p> <p>ADAPTIVE AEC: Yamaha takes AEC a step further by adding an adaptive element. The technology intelligently eliminates the echoes generated when microphones pick up sounds from speakers in environments with varying reflective properties.</p> <p>This can be extremely important when the device moves, a paper is passed over the device, etc. While other devices measure the environments once and set the AEC settings, Yamaha's devices are constantly checking the environment for changes.</p> <p>Adaptive Echo Canceller processes sounds of up to 20kHz to facilitate clear, effective conversation.</p>
2	YVC330. How will mic systems work if we have two of those on a longer conference table?	<p>If the YVC330 is connected to a PC or Mac using the USB cable or to a smartphone or tablet via Bluetooth, it can pick up sound from or transmit sound to a broader area by connecting one YVC330 with another unit of YVC330. When the person speaks the nearest YVC330 will pickup the audio and send it to the far end.</p> <p>If a videoconference system is connected to the EXT IN/OUT terminals of the YVC330, the daisy chain connection is not possible.</p> <p>The SoundCap function cannot be used together with a daisy chain connection.</p>
3	Are there remote monitoring capabilities for the hardware?	<p>The YVC series does not support monitoring functions, while the CS series can be controlled and configured on a one-to-one basis using dedicated software. The ADECIA can be used stand-alone or with the "ProVisonaire Edge" browser-based application software. It can be used stand-alone or in conjunction with "ProVisonaire Control" to monitor status on the control panel. Logs can also be obtained, which are useful for confirming whether there are any problems with system operation and for understanding the situation when troubleshooting.</p> <p>ProVisonaire series</p>
4	Can Yamaha help in developing solutions for projects too? How can we connect to someone from Yamaha for a solution design for project I might have in Delhi/NCR region?	<p>If you do not know our sales member, please send a request to the following e-mail address. We will connect you to the appropriate person to proceed.</p> <p>support_in@inquiry.yamaha.com</p>
5	Does the cat6 cable required for these systems need to be shielded?	Yes. Please use STP cables of CAT5e or higher.
6	Difference between Dante network and normal LAN network. In this Dante network, can we use fiber optic, if needed?	<p>Dante is a proprietary Network Layer audio transportation protocol developed by Audinate. Dante packages audio data as a payload inside an IP packet. That means Dante traffic is fully routable-a router can send it from one Lan to another or from inside a VLAN to outside a VLAN.</p> <p>Yes, you can use Fiber convertor when going more than 100m.</p>
7	Is the local voice lifting possible with the ceiling tile microphone itself?	Yes , Voice lift is possible with RM-CG , However we need MRX7-D to do it.
8	Can we have local sound enforcement and VC call simultaneously?	No , Only voicelift with VC is possible while using MRX7-D DSP.
9	Can you advise any standard fiber optic to cat6 interface unit?	<p>Please check the yamaha web site. Cat6 -fiber optics interface .</p> <p>https://in.yamaha.com/en/products/proaudio/network_switches/index.html</p>
10	What is the maximum number of ceiling mics that the Yamaha RM-CR processor support?	Maximum number of connections to RM-CR is 14 (maximum 16 when not using VXL1-16P)