

SQ-7 Digital Mixing Console

48 channel / 36 bus digital mixer

SQ-7 is the 33-fader flagship console in the SQ series, powered by Allen & Heath's revolutionary 96kHz XCVI FPGA engine. Created to excel in demanding scenarios such as AV, corporate events, live productions and houses of worship, SQ-7 offers pristine high-resolution audio quality and an ultra-low latency of <0.7ms. The console features 32 exceptional onboard mic preamps, plus 8 stereo FX engines with dedicated stereo return channels and access to the renowned RackExtra FX library. SQ is a natural choice for in-ear monitor setups, providing 12 stereo mixes (configurable as groups or auxes), whilst Automatic Mic Mixing makes it an excellent choice for conferences, panel talks and more.



Feature Summary:

- 96kHz FPGA processing
- 48 Input Channels
- DEEP Processing ready
- 33 Faders / 6 Layers
- 12 Stereo mixes + LR
- 3 Stereo Matrix
- 8 Stereo FX Engines + dedicated stereo returns
- 7" capacitive touchscreen
- SLink port for remote audio / expansion
- 64ch I/O Port for audio networking
- 32x32 USB audio interface
- SQ-Drive direct recording to USB
- AES output
- Chromatic channel metering
- Integrated LED illumination
- Dedicated physical controls
- 16 Assignable SoftKeys
- 8 Assignable Soft Rotaries
- Channel LCD displays

SQ Information:

SQ Web Sites:

<https://www.allen-heath.com/key-series/sq/>
<https://www.allen-heath.com/ahproducts/sq-7/>

SQ Apps

There are two essential apps for SQ – SQ MixPad for engineers and SQ4You for performers.

SQ MixPad app is available free on iOS, Android, Windows and macOS platforms, providing offline editing and online wired or wireless control of the main mixing functions.

SQ4You is a personal mixing app to accompany SQ series mixers, allowing up to 8 performers to control their own monitor mixes from their Android or iOS devices and freeing the audio engineer to focus on the front-of-house sound.

SQ-Pad iPad control of your SQ console: <https://www.allen-heath.com/key-series/sq/sq-mixpad/>
SQ-4 You App control of your SQ console: <https://www.allen-heath.com/key-series/sq/sq4you/>

Qu-You Personal Monitoring Web Site: <http://www.allen-heath.com/ahproducts/qu-you/>
Qu-You Personal Monitoring App Video: <https://youtu.be/Sv5FIEMsJao>

SQ Forums: <https://community.allen-heath.com/forums/forum/sq>

Knowledgebase SQ Series: <http://support.allen-heath.com/Knowledgebase/List/Index/338/sq-series>

Facebook Page Allen & Heath SQ Users <https://www.facebook.com/groups/1983155281952365/>

SQ Documents:

Download brochures, user guides and other documents for this product.

SQ-7 Quick Start Guide https://www.allen-heath.com/media/SQ7_AP11350_Introduction_issue1.pdf

SQ V1.5.0 Reference Guide https://www.allen-heath.com/media/SQ_ReferenceGuide_V1_5_0.pdf

SQ Series Brochure https://www.allen-heath.com/media/SQ-Brochure-AP11417_3_Web.pdf

SQ-7 Cut Sheet <https://www.allen-heath.com/media/SQ-7-Cut-Sheet.pdf>

SQ V1.5.0 SLink Connections https://www.allen-heath.com/media/SLinkConnections_V1_5_0.pdf

SQ-7 Technical Datasheet https://www.allen-heath.com/media/SQ-7-Technical-Datasheet_F.pdf

SQ MIDI Protocol Issue 2 <https://www.allen-heath.com/media/SQ-MIDI-Protocol-Issue2.pdf>

DX System Guide https://www.allen-heath.com/media/DX-System-Guide-ISS_2.pdf

Qu Software:

SQ Firmware Release V1.5.0 <https://www.allen-heath.com/key-series/sq/sq-software/?download=111424>

SQ MixPad for Windows <https://www.allen-heath.com/key-series/sq/sq-software/?download=111429>

SQ MixPad for macOS <https://www.allen-heath.com/key-series/sq/sq-software/?download=112090>

Windows ASIOTM/WDM Driver Please read the driver release notes before running the installer.
<https://www.allen-heath.com/key-series/sq/sq-software/?download=98450>

Training Videos:

[SQ How to Video Series](#)
[Allen and Heath UK](#)



https://www.youtube.com/playlist?list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8

1 Allen & Heath SQ - Getting Started with SQ 3:41

Getting started with your SQ – Here's your SQ basic primer - how to get set-up and get running audio in and out.

https://www.youtube.com/watch?v=u1WkHNS52NI&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=2&t=12s

2 Allen & Heath SQ – Updating Firmware 1:14

Need to update your SQ Firmware? Keith shows you how.

https://www.youtube.com/watch?v=fWc4XQSpQ-A&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=3&t=0s

3 Allen & Heath SQ – Sending to a Mix 1:26

Find out how to easily send channels to different mixes. Includes details of our super-handy 'Channel to all mix' function.

https://www.youtube.com/watch?v=prIGm_qLh9o&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=4&t=0s

4 Allen & Heath SQ – Using Rack FX 1:59

Keith shows you the basics of applying effects via the 8 built-in high-quality rack effects units.

https://www.youtube.com/watch?v=H0tJRe0sjgo&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=4

5 Allen & Heath SQ – Types of Channels 1:59

Find out the different types of channel available on the SQ and how to assign them to channel strips

https://www.youtube.com/watch?v=SHUvKDtj9M&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=5

6 Allen & Heath SQ – Patching and the I/O Screen 2:02

Find out about patching on individual channels or via the I/O matrix.

https://www.youtube.com/watch?v=GxMyrGDmLIE&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=6

7 Allen & Heath SQ - Stereo Channels 1:25

Need to switch inputs and mixes to stereo? Keith has the answers.

https://www.youtube.com/watch?v=sga-7VkfUQ&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=7

8 Allen & Heath SQ - Preamp Control 1:40

Keith delivers the all-important introduction of signal to the SQ, and how to load a preamp model.

https://www.youtube.com/watch?v=Ug-b7v6srDM&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=8

9 Allen & Heath SQ – Input Processing 2:08

The essential guide to the processing available on each input channel.

https://www.youtube.com/watch?v=-qjiKwYJG7E&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=9

10 Allen & Heath SQ - Output Processing 2:02

Get an overview of SQ's output processing sections including how to use Fader Flip to control the GEQ (available on every mix).

https://www.youtube.com/watch?v=rHVOwMDy25Q&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=10

11 Allen & Heath SQ – All about PAFL 1:00

https://www.youtube.com/watch?v=0W4I2_Rz0VU&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=11

12 Allen & Heath SQ – All about PAFL (V1.5+ edition) 1:02

What is PAFL – and how does it work on the SQ? This video answers all.

https://www.youtube.com/watch?v=dPxVjJUwRYA&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=12

13 Allen & Heath SQ – Monitoring with the Listen Bus 1:30

Learn about the Listen Bus and how to use it for monitoring audio, along with patching PAFL.

https://www.youtube.com/watch?v=b5FQZR6rLy0&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=13

14 Allen & Heath SQ - Softkeys, SoftRotaries & Footswitch Control 1:52

Learn how to customise your SQ workflow by assigning functions to Soft Controls and the footswitch connection.

https://www.youtube.com/watch?v=Xyl3zZbAZhg&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=14

15 Allen & Heath SQ - Network Connection 1:54

By connecting to a network, you can control the SQ from a range of other devices, including wireless devices running the free SQ apps.

https://www.youtube.com/watch?v=tQJYtuD9Kno&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=15

16 Allen & Heath SQ - SQ-Drive Basics 2:35

https://www.youtube.com/watch?v=d0lYSty1uLY&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=16

17 Allen & Heath SQ - SQ-Drive Basics (V1.5+ edition) 2:38

SQ allows you to record or playback stereo or multichannel audio directly to/from a USB drive, here's a brief overview to show you how it works.

https://www.youtube.com/watch?v=kDKp-XFmY0c&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=17

18 Allen & Heath SQ - Copy, Paste & Reset 1:12

For ultimate speed and ease of use, the SQ features Copy/Paste and Reset keys. This allows settings to be quickly copied from one channel to another or completely reset.

https://www.youtube.com/watch?v=kKE1gThSTrw&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=18

19 Allen & Heath SQ - DCA & Mute Groups 2:03

Learn how to control levels and mutes for multiple channels at once using SQ's DCA and Mute Groups.

https://www.youtube.com/watch?v=fIrtRLHJrVg&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=19

20 Allen & Heath SQ – Tie Lines 1:01

Find out about the SQ's comprehensive Tie Line patching, which enables any source to be linked to any destination without using up processing.

https://www.youtube.com/watch?v=WsMS7-OTWY&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=20

21 Allen & Heath SQ – Tie Lines (V1.5+ edition) 1:15

Find out about the SQ's comprehensive Tie Line patching, which enables any source to be linked to any destination without using up processing.

https://www.youtube.com/watch?v=4bpNGy3DgAI&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=21

22 Allen & Heath SQ – User Permissions 1:29

Learn how to set up 10 different users for your SQ, with passwords and custom access to control parameters.

https://www.youtube.com/watch?v=LOEPR8p7FKs&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=22

23 Allen & Heath SQ - SQ4You Personal Monitoring App 0:44

SQ4You is a personal mixing app to accompany SQ series mixers, allowing up to 8 performers to control their own monitor mixes from their Android or iOS devices and freeing the audio engineer to focus on the front-of-house sound.

https://www.youtube.com/watch?v=vEjN_mRg-5A&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=23

24 Allen & Heath SQ – Patching tips for option cards 2:27

Option cards can be used to connect the SQ to audio networks. This video includes examples of patching to a Waves SoundGrid network and using Dante Virtual Soundcard to record.

https://www.youtube.com/watch?v=wChlFMJqKcW&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=24

25 Allen & Heath SQ – SQ-MixPad Offline Mode 1:33

Use SQ-MixPad's Offline mode to manage and edit shows away from the SQ console. You can even transfer entire shows wirelessly.

https://www.youtube.com/watch?v=ctvm4YaOnK8&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=25

26 Allen & Heath SQ - See the Sound with the RTA's 1:42

Keith introduces the SQ Meters screen and Channel RTA's, which display the frequency content of a signal in real time, helping to quickly find issues such as feedback, and see the sound for even faster mixing.

https://www.youtube.com/watch?v=-5jN-PBhHPo&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=26

27 Allen & Heath SQ - DCA Spills 1:14

Keith introduces the concept of DCA Spills. Full details on SoftKey options for spilling DCA's directly or when selecting a DCA can be found in the SQ reference guide.

https://www.youtube.com/watch?v=xHubmaZ-iP4&list=PLq3_zC_Xz0Pg94Yu1qioOEEJw2pxhdHP8&index=27

Allen & Heath SQ MixPad App Tutorials

JBA University

https://www.youtube.com/playlist?list=PL5TghGDaQ_pjVF3y5IOHRIDNyggQAbsFU



1 Allen & Heath SQ Mixpad App Overview - Part 1 – Inputs 2:55

https://www.youtube.com/watch?v=pjwKtiNYfAs&list=PL5TghGDaQ_pjVF3y5IOHRIDNyggQAbsFU&index=1

2 Allen & Heath SQ Mixpad App Overview - Part 2 - Mix Window 2:42

https://www.youtube.com/watch?v=Gr4toOfz4ew&list=PL5TghGDaQ_pjVF3y5IOHRIDNyggQAbsFU&index=2

3 Allen & Heath SQ Mixpad App Overview - Part 3 - DCA/ Mute Groups/ Soft Keys 2:10

https://www.youtube.com/watch?v=JHEFrXJlf2U&list=PL5TghGDaQ_pjVF3y5IOHRIDNyggQAbsFU&index=3

4 Allen & Heath SQ Mixpad App Overview - Part 4 - Effects 3:09

https://www.youtube.com/watch?v=W2IcpENgZGQ&list=PL5TghGDaQ_pjVF3y5IOHRIDNyggQAbsFU&index=4

5 Allen & Heath SQ Mixpad App Overview - Part 5 - Meters and Scenes 4:36

https://www.youtube.com/watch?v=A6dixNgBFPI&list=PL5TghGDaQ_pjVF3y5IOHRIDNyggQAbsFU&index=5

6 Allen & Heath SQ Mixpad Offline Editor - Part 6 - Setup & Utility 5:51

https://www.youtube.com/watch?v=-WPZxV24W34&list=PL5TghGDaQ_pjVF3y5IOHRIDNyggQAbsFU&index=6

7 Allen & Heath SQ Mixpad Offline Editor - Part 7 - Copy, Paste, and Reset Channel Strips 1:14

https://www.youtube.com/watch?v=fflybT6zksY&list=PL5TghGDaQ_pjVF3y5IOHRIDNyggQAbsFU&index=7

8 Allen & Heath SQ Mixpad Offline Editor - Part 8 - I/O Patch Tab 4:15

https://www.youtube.com/watch?v=FWeWeJJy-4&list=PL5TghGDaQ_pjVF3y5IOHRIDNyggQAbsFU&index=8

Allen & Heath SQ Workshop with Parallel Compression and Output Channel Processing 12:26

In this video we take a deep dive into the Allen & Heath SQ series digital console.

<https://youtu.be/5Lydsq0wM7c>

Using MIDI with your A&H console - Technical Webinar 59:43

<https://youtu.be/Lqk9xbsqxsA>

In this Webinar, Alex & Keith talk about using MIDI with Allen & Heath digital consoles. Topics include: • Sending MIDI from a console • MIDI control of A&H consoles (NRPN) - Messages that can control your mixer. • Working with the A&H DAW Control Driver - How it works, the new CC translation options and using it without a DAW! • Examples of use - Sending messages from QLab, using program changes effectively, controlling 3rd party plugins. The latest MIDI Protocols are available to download from the A&H website.

SQ On Tour with Clairo 4:53

<https://youtu.be/ceAzzTHSu18>

Monitor engineer Chris Dwight runs us through his SQ-5 set-up, currently on tour with viral indie-pop artist Clairo.

Allen & Heath's SQ-6 On Tour With Fish 8:03

<https://youtu.be/7VidE1cJxnU>

Former Marillion singer and front man Fish chooses Allen & Heath's SQ-6 on his current solo tour for FOH and monitor duties.

Sound engineer for Fish, Steven Kent, uses the SQ-6 at FOH and an AR2412 and AR84 AudioRack on stage. The audio production has been put together by MGS Productions, while the wedge system is provided by Adlib.

Non Allen and Heath Training Videos

Paul Wilton Published on May 3, 2015

This video is about an Allen & Heath QU-32 Audio Mixer. It is part 1 of a series of training videos I have produced to help my PA team migrate from a traditional analogue audio mixer to this new digital desk.

QU32 Part 1 <https://youtu.be/HIpYbcYbTgo>

QU32 Part 2 <https://youtu.be/yWDXuqOdWOY>

QU32 Part 3 <https://youtu.be/8wiMRYiTRrI>

QU32 Part 4 <https://youtu.be/ACPE1E7JAJs>

Church Sound Booth Training Tutorial Part II: Sound Board Qu-24 - Evangel Baptist Church

<https://youtu.be/5ePqo0qctuY>

Audio Workshop - Building a Great Worship Mix - Northlands Church <https://youtu.be/4vV24Eg7dyg>

How to Mix Audio in a Worship Service - Tutorial Video <https://youtu.be/NLVdTyNMpto>

David Wills Audio <https://www.youtube.com/user/ProAudioDVDs/>

<http://proaudiodvds.com/free-church-sound-training>

Marlon V <https://www.youtube.com/user/nolramv/>

Allen & Heath Q24 Quick Start – 01 9:20

<https://youtu.be/WZWexI3vJ1U>

Allen & Heath Q24 Quickstart Review – 02 9:17

<https://youtu.be/-q876bKZuy4>

Allen & Heath Q24 Setting Gains – 03 6:05

<https://youtu.be/I7Uivf4GB38>

Allen & Heath Q24 FX – 04 9:19

<https://youtu.be/6bnUEFqqk0I>

Allen & Heath Q24 Live Mixing w FX – 05 8:27

<https://youtu.be/kyNiDrvs2pA>

Allen & Heath Q24 Setting Scenes – 06 6:46

<https://youtu.be/aTp6zmkIJMw>

Allen & Heath Q24 Selections and Talk Back – 07 3:52

<https://youtu.be/GnndJEGMqcc>

Allen & Heath Q24 Shutting Down Powering On – 08 3:50

<https://youtu.be/NBJgKXEG0dE>

Allen & Heath Q24 Local and DSNAKE Settings – 09 3:31

<https://youtu.be/nhkps1U7Bh0>

Allen & Heath Q24 Using Mixes – 10 6:06

<https://youtu.be/i03E0OiWk-s>

AH Q24 DSNAKE Overview – 11 3:21

<https://youtu.be/BEOMzwnNprw>

Cable Basics – 12 6:32

<https://youtu.be/YTZ82nhp8No>

Using Audio Direct Boxes - DIs - 13 4:54

<https://youtu.be/Z--KA2kzFE>

Connecting Instruments - 14 6:05

<https://youtu.be/Ys3xstRSJmY>

AH QU 24 Monitor System 11:18

<https://youtu.be/OPKH5j4hfS0>

ALLEN & HEATH



Audio Engineering Resources



Hello, I'm Chris Huff...Welcome!

I've been mixing church audio for over 20 years and, most likely, I started out just like you. But I don't want you to struggle like I did. That's why I started BehindTheMixer.com in 2008.

I'd love to help you become the absolutely best church sound tech you can be. Here on the site, you'll find in-depth guides, free downloadable resources, free article, not to mention the church audio podcast!
<https://www.behindthemixer.com/>



Discover our training catalog built by David Wills, a 30+ year veteran, Audio Engineer. Learn how David's industry experience working with artists like Michael Jackson, Whitney Houston, Phil Collins, Earth, Wind & Fire, Chicago, Diana Ross and others can help you quickly achieve professional results.
<https://proaudioexp.com/>



<https://www.prosoundweb.com/church>



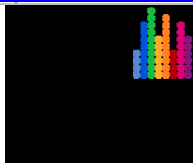
<https://churchtecharts.org/>



<https://tfwm.com/>



<http://www.sweetwater.com/worship/>



<https://churchsoundtips.com/>



<https://churchfront.com/>



<https://dbbaudio.com/blog/>

<https://www.sounddesignlive.com/>

<https://www.churchsoundcheck.com/resources.html>
<https://www.churchsoundcheck.com/way-cool-links.html>

ChurchSoundcheck.com
ChurchSoundBootCamp.com
TaipaleMedia.com

The Worship Ministry Toolkit
<https://www.churchfront.co/worship-ministry-toolkit>

<https://www.allen-heath.com/ahproducts/rta-software/>

10 Tips for Purchasing a New Church Sound System
<http://rscmaustralia.org.au/?p=2589>

Audio Tech Training Links to Web Resources Video Tutorials McCormick First Baptist Church

http://www.mccormickfbc.org/files/AV_training_links.html

(To save time, the presenter goes rapidly. On each video, click the Pause icon to think about what he says, and move the slider back to repeat a section.

Allen & Heath Qu-32 Digital Mix Console Overview - Sweetwater Sound 9:10 min

<https://www.youtube.com/watch?v=HJEmAFBjRMQ>

Qu-32 38 Input / 28 Output Digital Mixer (AllenandHeathUK) 2:27

<https://www.youtube.com/watch?v=Vp6ZwSYq4I0>

Allen & Heath Qu Series - Getting Started (AllenandHeathUK) An overview of the Qu layout and operation. (Note: he says "paffel" to refer to PAFL)

<https://www.youtube.com/watch?v=Q9P-Om8UBe4>

Allen & Heath Qu Series Channel Processing (AllenandHeathUK)

<https://www.youtube.com/watch?v=FdfX2OWymX8>

QU Custom Layer and Softkeys (AllenandHeathUK)

<https://www.youtube.com/watch?v=HnFMmO4ayu4>

Working with Scenes and Shows (AllenandHeathUK)

<https://www.youtube.com/watch?v=IGCU6x5BOOc>

Allen & Heath Qu Copy Paste User Libraries (AllenandHeathUK)

<https://www.youtube.com/watch?v=T7LcUXNwMdI>

Allen & Heath Qu Series Qu-Drive (AllenandHeathUK)

<https://www.youtube.com/watch?v=yvATapikceE>

USB Streaming (AllenandHeathUK)

<https://www.youtube.com/watch?v=v8opaijoJbY>

Allen & Heath Qu Pad Router Setup (AllenandHeathUK)

<https://www.youtube.com/watch?v=TgqOVdwvscA>

Allen & Heath Qu Series iLive FX (AllenandHeathUK)

<https://www.youtube.com/watch?v=wtqDavVIOUc>

QU FX & PROCESSING – Shows the 8 different FX types and describes each
There are demos of all the effects

<http://www.allen-heath.com/qu-fx-processing/>

Allen & Heath QU-16 Ducker ---- Firmware Version 1.7 for QU series mixers

<https://www.youtube.com/watch?v=Wd65GyLfZzY>

DAW Control (Allen and Heath UK)

<https://www.youtube.com/watch?v=UcaSKkFJ94g>

Allen & Heath Qu Pad App for Qu 16 Digital Mixer
<https://www.youtube.com/watch?v=zBgdkr2PCgw>

Qu Tutorial Series (Allen and Heath UK)
This lists the entire A&H training series in a different order
https://www.youtube.com/watch?v=Q9P-Om8UBe4&list=PLq3_zC_Xz0Pgly7wY33Wr-yI_D2ztnIzM

QU32 Part 1 The first in a series of 4 training sessions for a church audio team. Heavy British accent, sometimes hard to understand, but covers most important topics. Includes a section on the Q-Pad app. Follow the links on the YouTube page for the other tutorials in this series.
<https://www.youtube.com/watch?v=HIpYbcYbTgo>

HD version of A&H Introduction video
<https://vimeo.com/123194909>

Allen & Heath QU-16 Rack Mount Digital Mixer Demo.
A good, somewhat detailed overview. 10 min
<https://www.youtube.com/watch?v=C257qW3BbHI>

Allen & Heath Qu-16 Rackmountable Digital Mixer Overview | Full Compass.
A very good overview of QU features. 8 min.
<https://www.youtube.com/watch?v=1HnaDkaTDuQ>

Allen & Heath Qu-24 Digital Mixer Overview | Full Compass 2:24 min
<https://www.youtube.com/watch?v=Qa3vpQIsPmo>

Allen & Heath Qu-16 In-Depth. 23 min This is a somewhat helpful video for QU mixer users. Spends a lot of time mixing drums and uses a technique that I would modify (Use PAFL instead of the entire mix). Listen to this part with headphones, if possible. (He gets involved with his work and forgets his students.) Camera view not the best.
<https://www.youtube.com/watch?v=7j99nxYv46I>

Audio Technology Topics

Frequency and EQ – a very basic, fairly detailed presentation 45 min
<https://www.youtube.com/watch?v=YohhkNB7FOk>

Dynamic vs Condenser Microphones, SM57 vs P170
An extremely basic intro to microphones, but good comparison of dynamic and condenser
<https://www.youtube.com/watch?v=27dLLnisH2M>

In-Depth Overview of a Pro Sound Mixer – very basic, for “newbies”, analog mixer
<https://www.youtube.com/watch?v=kCkcl4I29Yc>

Sound Tutorial - Running the Sound Board
A very basic orientation to mixer board and nomenclature
Too simple a statement about phantom power, but overall very good
<https://www.youtube.com/watch?v=EhFEGeeg00g>

How to EQ Acoustic Guitar and Vocals – one approach, using a 4-knob analog EQ - 9:28 min
<https://www.youtube.com/watch?v=TeOSGGBSvKU>

Allen & Heath Qu Pad App for Qu 16 Digital Mixer
<https://www.youtube.com/watch?v=zBgdkr2PCgw>

HOW TO EQ VOCALS - Simple 3 Step Formula For Eqing Vocals
Uses Pro Tools parametric EQ 14 Min.
<https://www.youtube.com/watch?v=qdDDVortvRU>

Articles - Mixer Topics

A good overview of the features of Qu mixers
<http://www.allen-heath.com/ahproducts/qu-32/>

A review of the Qu32 at Church production
<http://www.churchproduction.com/story/main/allen-heath-qu-32-digital-mixer>

Provides details and specs of the Qu-32.
<http://www.musiciansfriend.com/pro-audio/allen-heath-qu32-digital-mixer>

Using the USB Qu-Drive on the console. Gives advice about tested hardware.
<http://allen-heath.helpserve.com/Knowledgebase/Article/View/774/201/qu-drive--understanding-qu-drive-and-usb>

<http://www.mixonline.com/news/consolas/allen-heath-qu-24-digital-mixer/423309>

A review of the Qu24.
<http://www.soundonsound.com/sos/oct14/articles/allen-heath-qu24.htm>

A simple overview of basic mixer nomenclature
<http://tweakheadz.com/choosing-a-mixer-p2/>

Mixer Inside The Mixer: Applications Of Console Matrix Sections
http://www.prosoundweb.com/article/mixer_inside_the_mixer_applications_of_console_matrix_sections/

Identifying Signal Flow Differentiation Between VCA's, DCA's, and Subgroups
<http://www.behindthemixer.com/identifying-signal-flow-differentiation-between-vcas-dcas-and-subgroups/>

The following two articles give more details about groups, particularly DCA/VCA:

Groups, VCAs and DCAs Part One - Normal Groups
<http://churchtecharts.org/home/2008/9/18/groups-vcas-and-dcas.html>

Groups, VCAs and DCAs Part Two - DCA/VCA Groups
<http://churchtecharts.org/home/2008/9/19/groups-vcas-and-dcas-part-two.html>

Articles – Audio Technology

A good presentation on understanding speaker frequency response

<http://www.ecoustics.com/articles/understanding-speaker-frequency-response/>

Understanding Speaker Specifications and Frequency Response

<http://canadahifi.com/understanding-speaker-specifications-and-frequency-response/>

Discusses topics an audio tech needs to understand. Last section offers simple advice regarding feedback.

<http://www.churchproduction.com/story/main/how-to-become-a-better-sound-engineer>

Brief discussion of 5 helpful topics for audio techs.

<http://www.churchproduction.com/story/main/five-things-new-sound-guys-need-to-understand/2>

How to eliminate feedback

<http://www.mediacollege.com/audio/howto/feedback.html>

An interactive tool to help identify audio frequencies

<http://www.mediacollege.com/media-guru/audio/frequency-trainer.html>

What is Acoustic Feedback? Pretty basic, but hits at the critical issues.

<http://hillmanav.com/acoustic-feedback/>

A somewhat detailed discussion of techniques for optimizing vocals.

<http://www.churchproduction.com/story/main/how-to-mix-vocals-for-live-events>

Compression can be helpful to improve level and blend with vocals.

<http://www.churchproduction.com/story/main/how-to-compress-vocals>

A tutorial on Compression

<http://www.fruity-loops-tutorials.com/post/Compression-Tutorial.aspx>

FM's guide to mastering: Understanding dynamic range and compression

<https://www.youtube.com/watch?v=dd4ujGjIX1k>

Mastering EQ - make music sound louder, with LESS compression and limiting

<https://www.youtube.com/watch?v=0JSMVdejO7U>

Mixing with Reverb: <http://mixingverb.com>

Formulas for filter Q, charts of Bandwidth vs Q

<http://www.sengpielaudio.com/calculator-bandwidth.htm>

Topics in audio technology

<http://www.prosoundweb.com/studyhall>

<http://www.prosoundweb.com/studyhall/tag/audio+basics>

Mythology-free training for the church sound operator.

<http://www.churchsoundcheck.com/>

Great Church Sound Website Resources

<http://www.greatchurchsound.com/resources.html>

The Audio Basics topic at ProSoundWeb

Decibel scales with voltage and wattage values

http://www.prosoundweb.com/article/quick_db_reference_chart1/studyhall

Discusses the factors involved in setting mixer input gain

http://www.prosoundweb.com/article/a_quick_easy_way_to_preset_console_input_gain/

An excellent article on RTA measurements vs listening tests

http://www.prosoundweb.com/article/why_measured_system_response_doesnt_match_whats_heard/studyhall

Discusses the issues involved in measuring room response

http://www.prosoundweb.com/article/sound_system_loudspeaker_room_interactions/studyhall

A good article on tuning a system based on hearing; good advice with regard to graphic EQ

http://www.prosoundweb.com/article/tuning_without_tools_working_through_a_system_to_get_it_up_to_speed1/studyhall

http://www.prosoundweb.com/article/do_you_speak_geek_the_unique_language_of_audio_analysis/studyhall/

An excellent article on The Unique Language Of Audio Analysis. He says the following:

"RTAs are the simplest "frequency analyzers" to use. Just place the mic, excite the system, and observe the response. But since the measurement is blind to the arrival time (and direction) of the sound, the observed response may have little to do with what a human perceives when listening at the same position. This is an aspect of measurement that the more sophisticated measurement processes attempt to address."

Produced by leading content company Keyfax NewMedia in cooperation with Yamaha Corporation of America and Shure, the two-hour-plus DVD is an update of the venerable Yamaha Sound Reinforcement Handbook, and offers a clear and concise overview of live sound for the novice or professional. \$20

<http://www.samedaymusic.com/product--YAMSRDVD>