



TOTAL ELECTRONIC CONTRACTING

ALLEN&HEATH

QU SERIES MIXER TRAINING



Total Electronic Contracting

● Sales ● Installation ● Hire ● Service ●

U2 / 650 North East Road, Holden Hill SA 5088

Ph: 8369 1964 Email: tec@tecsa.com.au Web: www.tecsa.com.au

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QU-32 Digital Mixing Console

DIGITAL MIXING RESHAPED

Now in a feature-packed new Chrome Edition, Qu-32 reshapes digital mixing, combining innovative design and exceptional functionality to create a superb professional mixing experience. Bristling with all the features you'd expect from a top of the range digital console and incorporating technologies pioneered on the GLD and iLive digital mixing systems, Qu-32 has the power and pedigree to deliver class-leading audio performance.

Qu series features include multitrack recording direct to USB, Automatic Mic Mixing, ProFactory mic presets, plus an ever growing ecosystem of apps, accessories and remote I/O.

Whether you're switching from analogue or updating your digital desk, it's time to experience the new digital with Qu-32.



Feature Summary:

- 32 Mono Mic/Line Inputs (TRS + XLR)
- Recallable AnaLOGIQ™ Preamps
- 3 Stereo Inputs (TRS)
- 24 Mix Outputs (XLR)
- 4 Stereo Groups (switchable to Mix mode)
- Up to 11 Monitor Mixes (4 mono + 7 stereo)
- 2 Stereo Matrix Outs
- 4 FX Engines
- 4 dedicated FX Sends / Returns
- 4 Mute Groups
- 4 DCA Groups
- AES Digital Out
- 32x32 USB Audio Interface
- dSNAKE™ Remote Audio Port
- 33 Motor Faders
- 7" Touchscreen
- 10 Soft Keys
- Trim, polarity, HPF, gate, insert, 4-band PEQ, compressor, delay on all Inputs
- Automatic Mic Mixer
- Insert, 4-band PEQ, 1/3 octave GEQ, compressor, delay on all Outputs
- Channel Ducker on all inputs
- ProFactory Mic Presets
- RackFX Library
- Built-in Signal Generator
- RTA with Peak Band indication
- Spectrogram to aid feedback elimination and room acoustics
- Automatic Mic Mixer
- Qu-Drive Direct Multitrack Recording / Playback on USB drives
- DAW MIDI Control
- Qu-Pad iPad App
- Qu-You iPhone / Android personal monitoring app
- Qu-Control customisable iOS app for simple wireless control
- Compatible with ME Personal Mixing System
- High contrast metallic finish controls, matching premium GLD Chrome series

Allen and Heath Training Videos - Qu Series

https://www.youtube.com/watch?v=Q9P-Om8UBe4&list=PLq3_zC_Xz0Pgly7wY33Wr-yI_D2ztnlzM



4:06

Getting Started

<https://youtu.be/Q9P-Om8UBe4>



5:38

Channel Processing

<https://youtu.be/FdfX2OWymX8>



2:09

iLive FX

<https://youtu.be/wtqDavVIOUc>



2:41

Qu-Drive

<https://youtu.be/yvATapikceE>



1:31

Qu-Pad & Router Setup

<https://youtu.be/TgqOVdvwscA>



1:26

dSNAKE & ME-1

<https://youtu.be/ul1-GwjakS8>



1:40

Custom Layers & Soft Keys

<https://youtu.be/HnFMmO4ayu4>



1:40

Copy Paste User Libraries

<https://youtu.be/T7LcUXNwMdI>



2:29

DAW Control

<https://youtu.be/UcaSKkFJ94g>



1:48

USB Streaming

<https://youtu.be/v8opaijoJbY>



2:57

Working With Scenes & Shows

<https://youtu.be/lGCU6x5BOOc>



3:24

Logic setup

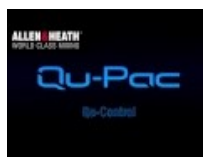
<https://youtu.be/yC7kyENOM-o>



1:57

Ducker

<https://youtu.be/MqyGgfWZsLM>



4:33

Qu-Pac Channel Screen & Qu-Control

<https://youtu.be/t0kCfYwjxzc>



3:39

AMM Setup Part 1

<https://youtu.be/d2V8UicImtY>



2:36

AMM Setup Part 2

<https://youtu.be/j9hjyYEHazQ>

QU Information

QU Web Site: <https://www.allen-heath.com/key-series/qu-series/>

QU-Pad iPad control of your QU console: <http://www.allen-heath.com/ahproducts/qu-pad/>

Qu-You Personal Monitoring Web Site: <http://www.allen-heath.com/ahproducts/qu-you/>

Qu-You Personal Monitoring App Video: <https://youtu.be/Sv5FIEMsJao>

QU Forums: <http://community.allen-heath.com/forums/forum/qu>

Facebook Page: <https://www.facebook.com/groups/789847994426069/>

Qu-32 Documents:

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

Qu Mixer Getting Started Guide 4 MB

http://www.allen-heath.com/media/Qu-Mixer-Getting-Started-Guide-AP10025_2-V1.9.pdf

Qu Mixer Reference Guide V1.9 14 MB

http://www.allen-heath.com/media/Qu-Mixer-Reference-Guide-AP9372_9.pdf

Qu Series Brochure Includes Qu-16, Qu-24 and Qu-32, Qu-Pac, Qu-SB12 MB

http://www.allen-heath.com/media/Qu-Series-Brochure-AP9457_4_Web.pdf

Qu-32 v1.8 Chrome Technical Datasheet 2 MB

<http://www.allen-heath.com/media/Qu-32-v1.8-Chrome-Technical-Datasheet.pdf>

Qu-32 Weights and Dimensions 201 kB

http://www.allen-heath.com/media/Qu-32-Dimensions_B.pdf

Qu-24 and Qu-32 Block Diagram V1.8 148 kB

http://www.allen-heath.com/media/Qu-24and32-block-diagram_V1.8_1.pdf

Qu MIDI Protocol V1.9+ 229 kB

http://www.allen-heath.com/media/Qu_MIDI_Protocol_V1.9.pdf

QU-32 DIMENSIONS CAD DRAWINGS 5 MB

http://www.allen-heath.com/media/Qu32_Dimensions_dwgs.zip

Audio-Technica ProFactory Preset Library 629 kb

<http://www.allen-heath.com/media/AH-Audio-Technica-ProFactory-Preset-Library.zip>

Sennheiser ProFactory Preset Library 626 kb

<http://www.allen-heath.com/media/AH-Sennheiser-ProFactory-Preset-Library.zip>

Shure ProFactory Preset Library 627 kb

<http://www.allen-heath.com/media/AH-Shure-ProFactory-Preset-Library.zip>

Qu-32 DAW Template Show 5kb

<http://www.allen-heath.com/media/Qu-32-DAW-Template-Show.zip>

Qu Software:

<https://www.allen-heath.com/key-series/qu-series/#tab5>

Qu Firmware Release V1.95

V1.95 is a maintenance release for the Qu series. It improves USB streaming stability with certain computer setups. Please read the [Release Notes](#) for more information, and the [Firmware Update Instructions](#) before downloading.

Qu Firmware Release V1.90

V1.90 is a feature release of Qu mixers firmware. It adds support of Qu-SB, ProFactory Library presets for industry standard Shure and Sennheiser microphones, various enhancements to the Qu-Pad iPad app, and support of the new Qu-Control iOS app. Please read the [Release Notes](#) and [Firmware Update Instructions](#) before downloading the firmware. http://www.allen-heath.com/media/How-to-Update-Qu-Firmware_5.pdf

Qu-32 Firmware http://www.allen-heath.com/key-series/qu-series/#accordian_item_119

Qu Windows ASIO/WDM Driver http://www.allen-heath.com/key-series/qu-series/#accordian_item_226

DAW Control driver http://www.allen-heath.com/key-series/qu-series/#accordian_item_377

TCP/IP MIDI Driver http://www.allen-heath.com/key-series/qu-series/#accordian_item_254

Non Allen and Heath Training Videos

GLB Productions Published on Feb 8, 2016

A series of videos on the A&H Qu-32 digital mixing console. This video was filmed whilst training a group of Singaporean university students on how to operate the mixer they had just purchased.



The video begins with a brief discussion of the differences between analogue and digital mixers.



The second in a series of videos on the A&H Qu-32 digital mixing console.



The third and final part in a series of videos on the A&H Qu-32 digital mixing console.

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/HIpYbcYbTqo>

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/5ePqo0gctuY>

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/-g876bKZuy4>

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/kyNjDrvs2pA>

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/GnpdJEGMqcc>

Allen & Heath Q24 Shutting Down Powering On - 08 3:50
<https://youtu.be/NBJgKXEG0dE>

Allen & Heath Q24 Local and DSsnake Settings - 09 3:31
<https://youtu.be/nhkps1U7Bh0>

Allen & Heath Q24 Using Mixes - 10 6:06
<https://youtu.be/i03E0OiWk-s>

AH Q24 DSsnake Overview - 11 3:21
<https://youtu.be/BEOMzwnNprw>

Cable Basics - 12 6:32
<https://youtu.be/YTZ82nnp8No>

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/0PKH5j4hfS0>

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>