DIGITAL MIXING RESHAPED

Sal

ALLEN& HEATH

Sta

Introducing the New Compact Digital Mixers from Allen & Heath

We have been creating high end mixing consoles for some of the most discerning ears in the business since 1969. We're not a software house, we don't make stomp boxes or cable testers – creating excellent mixers is, has been and always will be our great passion. Qu mixers have been designed by our in-house research and development team in Cornwall, Great Britain, and are directly descended from the GLD and iLive digital mixing systems that have earned the industry's respect night after night on tour and in live venues across the globe – so you can be confident that you're standing behind a premium mixer that looks, feels, and sounds like a pro. Qu mixers harness the full potential of digital mixing technology, with total recall of settings (including the all-important fader position and preamp gain), convenient recording and playback solutions, iPad control, personal monitoring options and the choice of local or remote Cat5 I/O.

		i	20-24		
	3 STERED INPUTS	20 ^{MIX}	25 HOTOR FADERS	2 STEREO MATRIX OUTS	
2 STERED GROUPS	4 GROUPS	4 ENGINES	4 FX SENDS / RETURNS	4 DCA GROUPS	
USB AUDIO STREAMING	DAW MIDI CONTROL	AES DIGITAL OUT •	CHANNEL DUCKER	10 SOFT KEYS	

Q ບ-	32		-	
33 MOTOR FADERS	32 ^{MC} 00	3 STERED INPUTS	24. DUTPUTS	2 STERED MATRIE OUTS
4 GROUPS	4 ENGINES	4 FX SENDS / RETURNS	4 STEREO GROUPS	4 DC
USB AUDIO STREAMING	DAW MIDI CONTROL	AES DIGITAL OUT •	CHANNEL DUCKER	10 ^{50FT K}

20-32



16- MIC 3 STERED 12- MIX 2 STERED 1977 32 0.0 3 ° 12- MIX 2 STERED 1977 15< SOFT</td> 16. SELECT 4 °COUPS 4 °COUPS 1977 15< SOFT</td> 16. SELECT 4 °COUPS 4 °COUPS 4 °COUPS 4 °COUPS 4 DCAS VIS AUDIO STEEAMING DAAW AESS CHANNEL MIDI CONTROL DIGITAL DUT. CHANNEL DUCKER

Qu-16

QU-BH

16 MONO INPUTS © ©	3 STERED INPUTS O	12 ^{MIX}	17 MOTOR FADERS	
4 GROUPS	4 ^{FX} ENGINES	4 STERED FX RETURNS	4 SOFTKEYS	4 DCA GROUPS
USB AUDIO STREAMING	DAW MIDI CONTROL	AES DIGITAL OUT •	19 77 MOUNTABLE	CHANNEI DUCKEF



AnalogiQ[™] Preamps

Our AnalogiQ[™] total recall preamps feature zero crossing detection and an advanced padless 1dB step gain stage, closely allied to the DSP for optimal gain accuracy and audio transparency. The analogue signal is captured by high class, low latency 24bit analogue to digital converters matched to high quality 24bit digital to analogue converters to deliver the required outputs. The AnalogiQ[™] design has been refined to offer superb transparency, minimal distortion and an ultra-low noise floor, with a warm, musical sound that is missing from some digital consoles.

The Mixing Experience

Having massive processing power and advanced functionality is great, but it counts for nothing if you can't access the controls you need in a heartbeat. Once you start using a Qu you'll sense the years of research into ergonomics and the hands-on mixing experience that our team has drawn upon to deliver a wonderfully natural layout and workflow. It's not about recreating an analogue interface, it's about creating an experience that's fluid, comfortable and intuitive for novices, digital natives and old school road warriors alike, making all the benefits of digital mixing technology readily accessible to all.



Fader Automation

Moving faders started as an expensive option in the studio desks of the 80s, and later became the norm with the advent of digital technology. Nevertheless some entry-level digital mixers lack this precious commodity which is a fundamental part of the Total Recall approach. Fader automation is essential for rapid mixing, especially when you're dealing with multiple monitor mixes – just press a mix key and the faders immediately fly to the send levels for that mix.



Total Recall

True digital mixing is about being able to save and recall scenes (snapshots) at the press of a button. Qu can store up to 100 full Scenes for recall at will. Channels and mixes can be made Safe from Scene recall. For example, if an instrument or mic gets swapped out after the soundcheck, the channel can be made safe to avoid settings being overridden by Scene recalls. Or if a broadcast feed or walk-in iPod is added last-minute before the show kicks off, that mix or channel can be made safe from any scene change. In addition, single parameter updates can be blocked using a Recall Filter. So if you tweak the graphic EQ to reflect the room response when the audience gets in, you can block this to prevent any overwriting at scene change.

Custom settings for each EQ, compressor or channel can be saved as Library presets. This lets you store your tried and tested setting for your favourite vocal mic or reverb pattern and apply it to other channels or shows. Libraries, Scenes and the complete Show configuration can be saved to a USB key, so you can carry the show with you, ready to use on another Qu mixer. Qu-16, Qu-24 and Qu-32 feature 16, 24 and 32 motorized ALPS faders respectively, arranged over 2 layers, allowing instant access to all channels and masters in a compact space, plus a dedicated master fader which dynamically follows the mix selection. A third, Custom layer is available for ad-hoc user strip layout, where any combination of Inputs, FX Sends, FX Returns, Mix masters and MIDI strips can be assigned.

Touch Control

The 800 x 480, sixteen million colour Touchscreen and its dedicated data encoder form the heart of the Qu interface, providing super-fast, easy access to all settings. The user-friendly interface has been designed with clarity in mind. Dedicated keys and screen tabs quickly guide you to meter and RTA views, FX racks, channel processing, USB audio control, scenes, setup menus and much more.



iLive FX

used in our iLive pro touring series. Some of the world's most respected audio engineers have chosen to use iLive's FX on tour in preference to top-end plug-ins and external FX units. All Qu models boast 4 stereo iLive FX engines, featuring lovingly crafted emulations of legendary classic reverbs, gated reverbs, delays, modulators, flangers and more.

Qu's dynamics and FX algorithms are derived from the FX The FX library has the ability to grow with future firmware releases. FX are returned to the mix on dedicated return channels, so you're not tying up your mono and stereo input channels. Each Stereo FX Return has a dedicated 4 band PEQ.



Qu-Drive

Forget soundcard drivers and software setup, Qu has an integrated multitrack USB recorder, providing 18 channels of 48kHz, 24bit recording and playback straight to / from your USB hard drive. Capturing multitrack recordings of your shows has never been so easy. Mixes and FX returns can be recorded alongside channels, and multitrack audio can be played back to the mixer for virtual sound-checks.

An independent set of controls is provided for quick stereo recording of the main LR or other mix outputs, and a 2-track USB return can be routed to ST3 for playback of stereo WAV files such as walk-in music.

The SuperStrip

On Qu-16, Qu-24 and Qu-32 all your key processing tools are presented in a clean layout on the SuperStrip, with 1 function per physical control. The SuperStrip is complemented by an onscreen TouchChannel for intuitive access to full processing parameters without clutter or complex menu structures. Processing for Mono and Stereo inputs includes trim, polarity, HPF, gate, insert, 4 band PEQ, compressor and delay. All mixes including LR provide Insert, 4 band PEQ, 1/3 octave GEQ, compressor and delay.

On Qu-Pac, the new Channel screen replaces the physical fader strips. Different tabs provide access to Input Channels, FX, Groups, Mixes, DCA and Mute Groups, Tap on a channel to select and the Virtual Fader strip gives control of level, mute, pan and PAFL for the selected channel. Tap on the Current Mix box to select a different Mix.

Channel Ducker

An advanced yet easy to use Ducker is now available on every channel. It can be inserted on the fly on any number of Inputs and Stereo Groups, providing auto signal attenuation and then gently restoring the level to aid the operator in endless applications: reduce the level of background music when a single microphone or mic mix is in use, for example during live announcements, or give a chairman microphone priority over others. Setup is a breeze, with the option to share Ducker settings across multiple channels when in Gang mode.

USB Audio Streaming

Qu's built-in interface streams multitrack audio to your Mac or PC via a flexible patching system: all Input channels and the Main LR can be recorded at the same time, or you may choose to record something different such as FX returns or a pair of mixes.

The returns from the computer can be assigned to the Input channels. The interface is class-compliant on Mac OS X – and drivers are available for Windows systems. Either way, it will be recognized straightaway by any DAW supporting ASIO or Core Audio, including Logic, Cubase, Reaper, and Pro Tools.



















Qu's high resolution, full colour Touchscreen and the intuitive Touch Channel interface provide easy access to channel processing, the FX racks and all setup and



Allen & Heath's proprietary dSNAKE[™] low latency audio connection enables Cat5 connection to a remote audio rack, or to the ME personal



RACKMOUNTABLE DIGITAL MIXER FOR LIVE STUDIO AND INSTALLATION

With 24 sources to the mix including stereo inputs and returns, Qu-16 is the equivalent of a 30 channel analogue console with extensive outboard equipment (22 gates, 34 compressors, 12 graphic equalizers and 4 stereo effects)! Add the unique Qu-Drive recording facilities, dSNAKE connectivity and Total Recall scene system and you get a true powerhouse in just 19 inches.

Patchable Alt Or

5
6
7
8
9



Qu features crystal clear AnaLOGIQ total recall for transparency and low harmonic distortion.



Qu is compatible with Allen & Heath's ME Personal Mixing System – so you can add ME-1 personal mixers to your control their own monitor



Qu-Drive is an integrated USB recorder, allowing multitrack recording and playback to/from an external USB drive



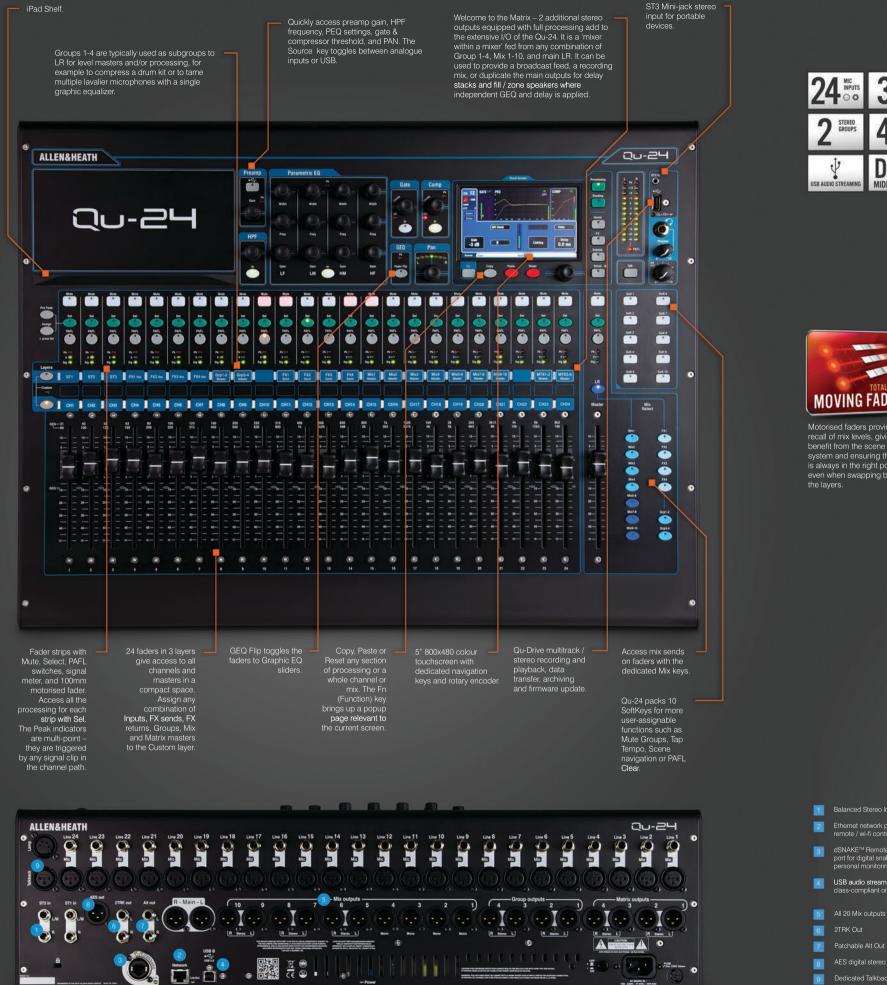
A free iPad app gives instant wireless control of the mixer, so you can tweak the PA, adjust the monitors on stage the audience.



emulations taken from the including classic reverbs, gated reverbs, delays and modulators.



Qu-You allows up to sever monitor mixes using an iPhone iPad or iPod Touch. Qu-You is compatible with all Qu series mixers



2 STEREO MATRIX OUTS 3 STEREO INPUTS 25 DCA 2 STEREO 4 MUTE 4 4 AES CHANNEL 10 SOFT KEYS ·U. DAW DUCKER DIGITAL OUT



Motorised faders provide tota recall of mix levels, giving full benefit from the scene recall system and ensuring the fader is always in the right position even when swapping betweer the lavers

Dedicated Talkback

AC MARS IN-



Qu's high resolution, full colour Touchscreen and the intuitive Touch Channel interface provide easy acces to channel processing, the FX racks and all setup and nent controls



dSNAKE[™] low latency audio connection enables Cat5 connection to a remote audic rack, or to the ME personal Qu is compatible with Allen & Heath's ME Personal Mixing System – so you can add ME-1 personal mixers to your setup to allow performers to control their own monitor mixes

Balanced Stereo Input Ethernet network port fo remote / wi-fi control dSNAKE[™] Remote Audic port for digital snake and personal monitoring USB audio streaming, class-compliant on Ma All 20 Mix outputs on XLR





COMPACT DIGITAL MIXER FOR LIVE STUDIO AND INSTALLATION

With 32 sources to the mix including stereo inputs and returns, Qu-24 is the equivalent of a 38 channel analogue console with extensive outboard equipment (30 gates, 50 compressors, 20 graphic equalizers and 4 stereo effects)! On top of this Qu-24 adds extra SoftKeys, a complete Matrix system and two stereo Groups.



Qu features crystal clear AnaLOGIQ total recall for transparency and low harmonic distortion.





Qu-Drive is an integrated USB recorder, allowing multitrack recording and playback to/from an external USB drive



wireless control of the mixer, so you can tweak the PA, adjust the monitors on stage, and even mix the show from the audience.

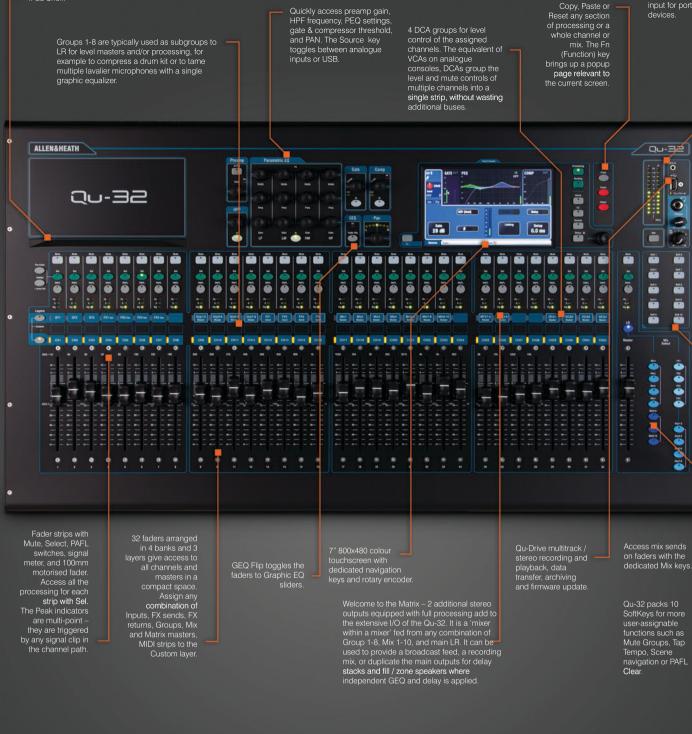


Qu features a library of FX emulations taken from the iLive pro touring series, including classic reverbs, gated reverbs, delays and modulators



performers to control their monitor mixes using an iPhone iPad or iPod Touch. Qu-You is compatible with all Qu series











ST3 Mini-jack stereo

•

•

.

.

Motorised faders provide total recall of mix levels, giving full benefit from the scene recall is always in the right position even when swapping betweer the lavers.



Qu's high resolution, full colour Touchscreen and the intuitive Touch Channel interface provide easy acce to channel processing, the FX racks and all setup and system management controls



dSNAKE™ low latency audio connection enables Cat5 connection to a remote audio rack, or to the ME personal



miyes





COMPACT DIGITAL MIXER

With 4 DCAs and 40 sources to the mix including stereo inputs and returns, Qu-32 is the equivalent of a 46 channel, 8 groups, 4 VCA analogue console with extensive outboard equipment (38 gates, 62 compressors, 24 graphic equalizers and 4 stereo effects)!



Qu features crystal clear AnaLOGIQ total recall pad-less preamps, optimised for transparency and low harmonic distortion.



System – so you can add ME-1 personal mixers to your setup to allow performers to control their own monitor



Qu-Drive is an integrated USB recorder, allowing multitrack recording and playback to/from an external USB drive.



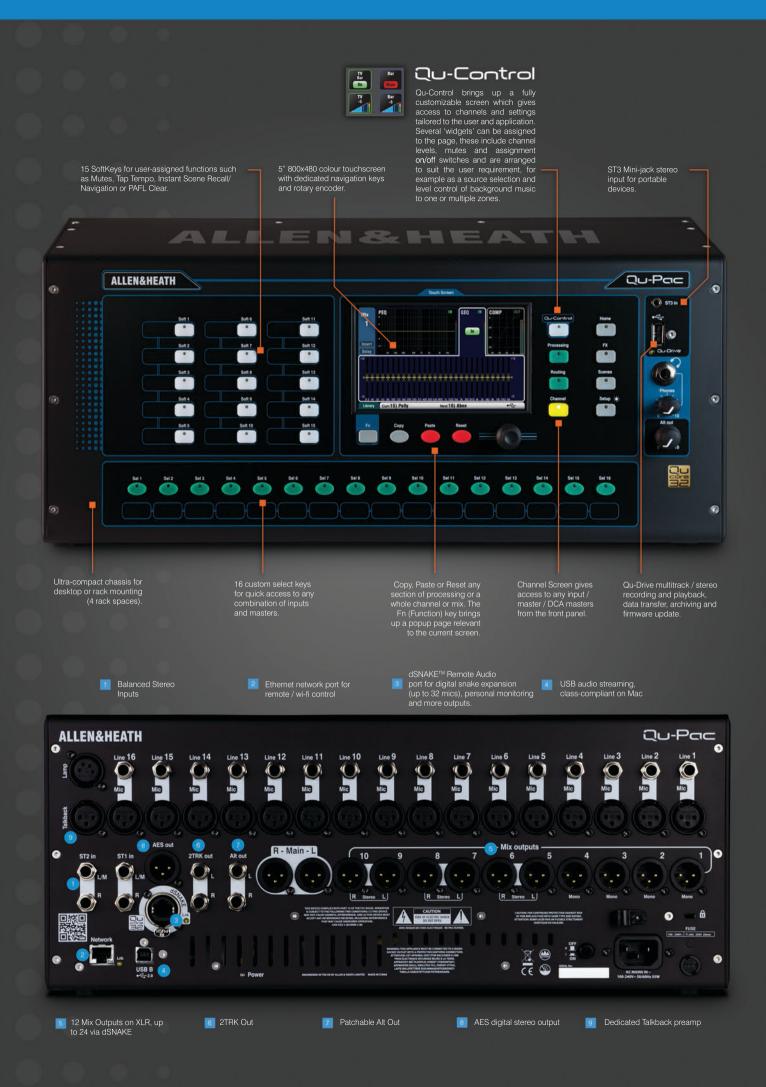
A free iPad app gives instant wireless control of the mixer, so you can tweak the PA, adjust the monitors on stage, the audience.



Qu features a library of FX iLive pro touring series, including classic reverbs gated reverbs, delays and modulators.



performers to control their monitor mixes using an iPhone iPad or iPod Touch. Qu-You is compatible with all Qu series mixers





Qu-Pac takes the power and legendary quality of the Qu family and shrinks it into an uber-compact desk or rack mount format. Qu-Pac frees you to mix from your iPad, but the full functions of the mixer can also be accessed from the front panel and touchscreen.

With custom settings and Cat5 expansion up to 38 inputs, Qu-Pac provides a scalable, failsafe solution for hardworking bands, schools, hotels, corporate events, live music bars, conferences, personal mixing and many more scenarios requiring a pro mixing solution in a tiny footprint.







ULTRA COMPACT DIGITAL MIXER

User permissions and the customizable Qu-Control screen make Qu-Pac convenient and safe for day-to-day use by non-technical staff.



Qu-Pac has the built-in I/O of a Qu-16 mixer but with the 'brain' of a Qu-32, allowing it to handle up to 38 inputs when connected to our family of AudioRacks over up to 120m of Cat5 cable.

Qu-Pad

Add the Qu-Pad iPad app to your Qu setup and you're free to adjust the monitors on stage, roam around the venue whilst tweaking the PA, and then mix the show from the heart of the audience. Qu-Pad connects to the mixer over Wi-Fi* and gives instant access to all live mixing parameters and settings.

*Requires the connection of a Wi-Fi router or access point to the Qu Network port..





Qu-You

Qu-You allows up to seven performers to control their monitor mixes using an iPhone, iPad or iPod Touch, and frees up the engineer to focus on the audience.

The main Four Wheel Drive view presents all the key controls in a super easy format, with chunky thumbwheels to control 4 groups of sources, plus a master mute and output level control. Unlike some apps on the market, Qu-You shows all controls in either orientations (anyone who has ever tried to rotate an iPhone and play a guitar at the same time will know why this matters!).

Remote Audio

Qu mixers are self-contained, so if you've already got the analogue cables you're good to go. If you're thinking of trading in the copper multicore for a Cat5 digital snake, Qu's dSNAKE[™] port has you future-proofed, allowing connection to a combination of AR2412, AR84 or portable AB168 AudioRacks.



AR84

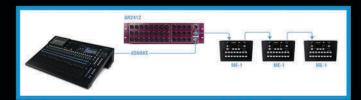
8 inputs, 4 outputs AudioRack with dSNAKE connection. 1u rack mount.



ME Personal Mixing System

Qu mixers are fully compatible with our ME Personal Mixing System. Any number of ME-1 personal mixers can be chained from the dSNAKE[™] port (or from an AR2412 / AB168 AudioRack if you've got one connected to the dSNAKE[™] port). Each performer can be given tailored control over their own mix, leaving the engineer free to focus on the audience experience.

Find out more at allen-heath.com/ME







dSNAKE[™] is our proprietary networking solution, boasting a transport latency of only 105us over cable runs of up to 120m / 390'. So if you're mixing FoH you can place your I/O on the stage and run a single Cat5 cable back to the Qu mixer in the mix position.

AR2412

24 inputs, 12 outputs AudioRack with dSNAKE[™] connection, expansion port and dedicated EtherCon connection to the ME personal mixing system. 3u rack mount.

AB168

Portable rugged 16 inputs, 8 outputs stagebox with dSNAKE[™] connection and expansion port.



Qu in the Studio

Qu mixers can sit at the heart of your studio and double as a tracking desk, audio interface and DAW controller.

The built-in USB interface can handle up to 32x32* channels full-duplex of high quality 24bit 48kHz audio. MIDI control is tunnelled over the USB connection and the Custom layer can be populated with MIDI strips for direct assignment or 'learning' of faders and Mute, Sel and PAFL keys in the DAW.

You can also download the free DAW Control app for Mac OS X, which translates the standard MIDI messages to popular HUI or Mackie Control protocols, for easier setup and deeper integration with the mixer.

Add one or more ME-1s for personal foldback mixes to the recording room.

* 24x22 on Qu-16, 32x30 on Qu-24

ARMed to the Hilt

Qu mixers are equipped with 5 cores of high efficiency ARM core processing, with dedicated ARM cores running the touchscreen display and surface, USB streaming, Qu-Drive multi-channel USB recording / playback, Ethernet and fader automation. Between them the ARM cores provide state-of-the-art processing, working in parallel to deliver extensive control, instant-on operation, and lightning-fast response.

The mixer's DSP farm exploits next generation dual core DSPs. With plenty of DSP power under the hood the channel processing is only using a fraction of capacity, so Qu is future-proofed, with ample room for updates and extra functionality.

The DSP architecture employs varied bit depths, tailored to specific algorithms, with 48 bits on critical EQ functions and a 56 bit accumulator on the mix bus where it really counts, allowing every nuance of the audio to be captured in the final mix.



Digital Mixing Reshaped

Made from 18 gauge, cold-rolled Zintec steel, Qu's distinctive frame is designed for strength and rigidity. We've done unspeakable things to that chassis in the lab and it's taken everything we've thrown at it – even being stomped on by our resident ex-tank commander.

Silence is a precious commodity in the live or studio environment, which is why nobody wants those moments of stillness ruined by the whirring of fans coming from the mix position. Qu's sleek profile generates optimal airflow through the mixer, eliminating the need for any fans.

The shape has some unexpected benefits too. When we started taking Qu out to gigs we soon found the space beneath it incredibly useful for keeping our USB drive, talkback mic, cue sheet and other clutter tucked out of the way. We've even had engineers hanging the mixer from a handy scaffold bar and mixing vertically.

Applications

Qu-16 + AB168

Rugged digital box for all 16 mono inputs and up to 8 returns, plus Qu-Drive direct recording on USB media.

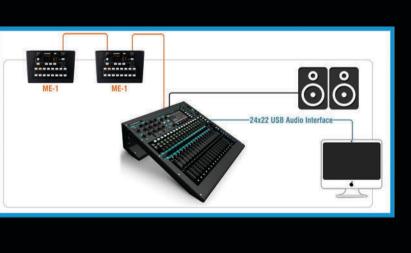
Qu-Pac + AB168 + Qu-Pad

Qu-Pac as a rackmounted install mixer operated from the touchscreen, with occasional live shows benefitting from 32 remote XLR inputs on stage and wireless tablet mixing.



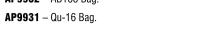
In the Studio

Qu-16 as a tracking desk, audio interface, monitor router and DAW Controller.



Accessories

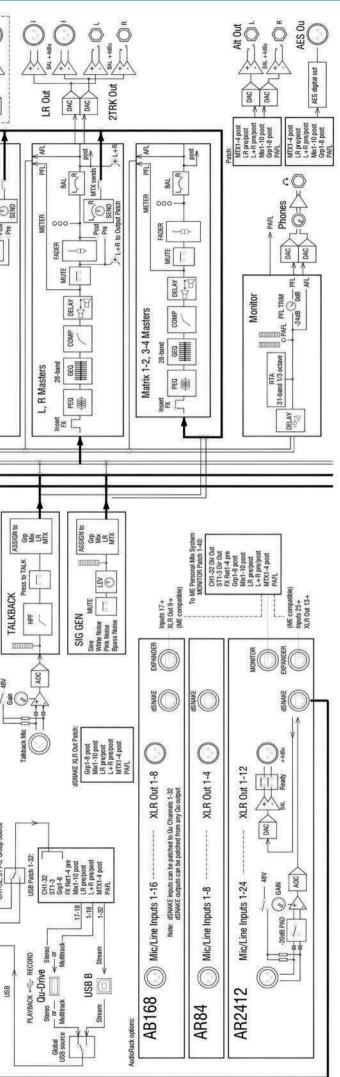
AH9650 – 100m drum of EtherFlex Cat5 with locking Neutrik EtherCon connectors. AH9981 – 50m drum of EtherFlex Cat5 with locking Neutrik EtherCon connectors. AH9651 – 20m EtherFlex Cat5 with locking Neutrik EtherCon connectors. LEDLamp – Variable brightness 18" gooseneck lamp. QU-16-RK19 – Rack mounting kit for Qu-16. AP9262 - Dust cover for Qu-16. AP9458 - Dust cover for Qu-24 AP9639 - Dust cover for Qu-32 **AP9932** – AB168 Bag.



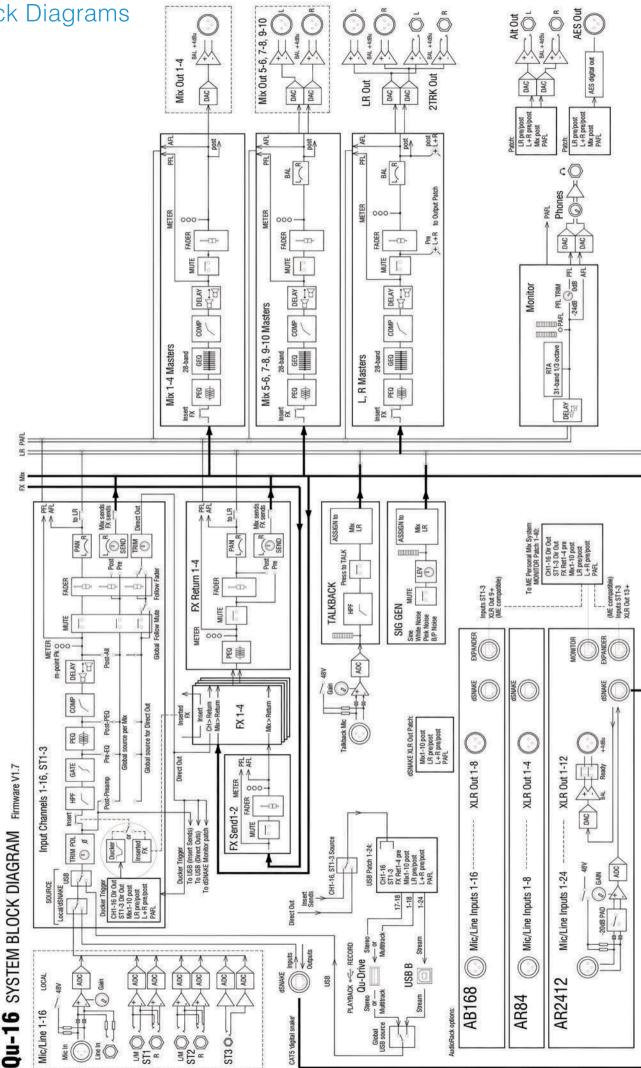
AP9933 – Qu-Pac Bag

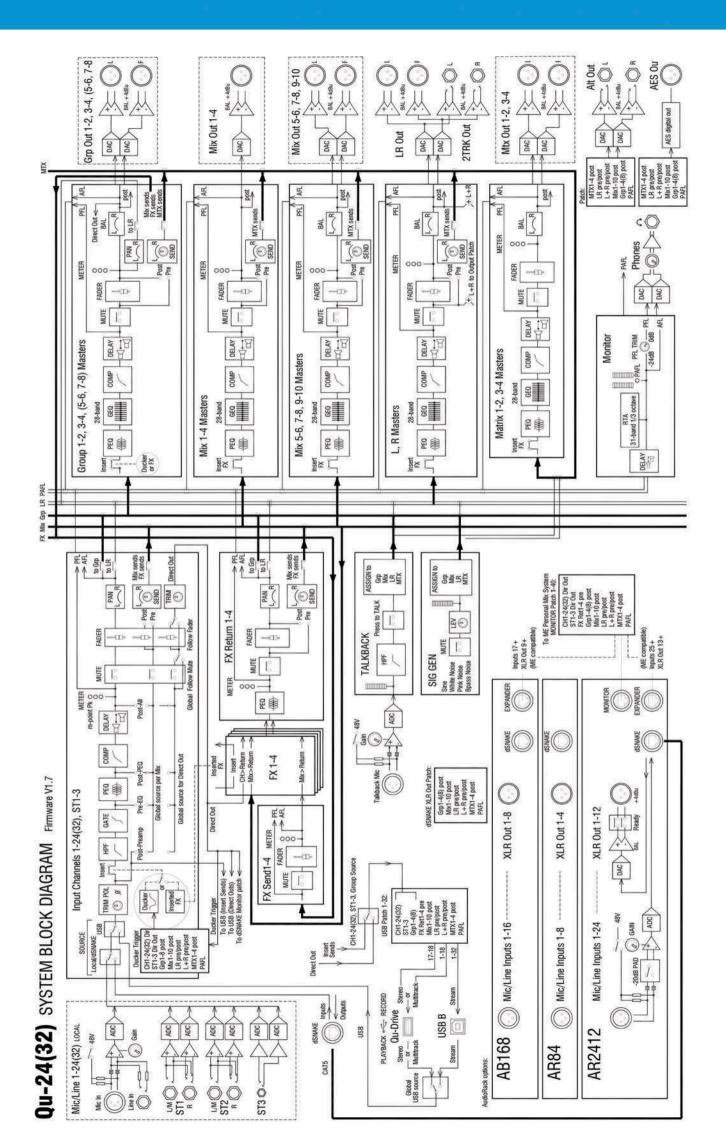


7-8, 9-10 **Block Diagrams** Mix Out 5-6, Mix Out 1-4 DAC DAC ¢ _ J MTX sends XIN e (O AN (0) Post Pre Post Pre -00--00--CD-DELAY DELAY N IS B: B Group 1-2, 3-4, 5-6, 7-8 Masters Mix 5-6, 7-8, 9-10 Masters COMP COMP PEO GEO Mix 1-4 Masters GEO DEQ Insert E Red Ducker FX Mix sends FX sends → PFL → AFL to LR > PFL > AFL to Gp Mix sends FX sends SEND B PAN PAN (Pre Pre Return 1-4 -00-X 000 000-DE B FX 1-4 SYSTEM BLOCK DIAGRAM Firmware V1.7 De B Input Channels 1-32, ST1-3 **P**F GATE 000 불니 FX Send1-4 M l l TRIM POL Ducker E dSNAKE PO PO ADC Mic/Line 1-16 LOCAL Access inputs for 17-32 via dSN ST2 B R O N $\Delta \Delta$ 0 Qu-Pac ų ST3 O. Mich Mich









Technical Specifications

Qu-16, Qu-24, Qu-32, Qu-Pac specification

Inputs Mic/Line Inputs Input Sensitivity (XLR / TRS) Analogue Gain Maximum Input Level (XLR / TRS) Input Impedance (XLR / TRS) THD+N, Unity gain 0dB THD+N, Mid gain +30dB

Stereo Line Inputs ST1. ST2 connector

ST3 connector Input Sensitivity (ST1, ST2 / ST3) Trim Maximum Input Level (ST1, ST2 / ST3) Input Impedance

Outputs Mix1-10 and LR Out

Group and Matrix Out (Qu-24,32 only) Output Impedance Nominal Output Maximum Output Level Residual Output Noise

Stereo Att Out & 2Trk Out Source (Alt Output / 2Trk Output) Output Impedance Nominal Output Maximum Output Level Residual Output Noise

AES Digital Output

dSNAKE Inputs Outputs

System Dynamic Range Frequency Response Headroom Internal operating Level dBFS Alignment Meter Calibration Meter Paik indication Meter Pignal indication Meter Type

> Sampling Rate ADC, DAC Latency

Operating Temperature Range Mains Power Power Consumption

USB Audio Qu-Drive

USB storage device Stereo Record Stereo Playback Multitrack Record Multitrack Playback

USB Audio Streaming Send (upstream) Qu-16/24/32/Pac Return (downstream) Qu-16/24/32/Pac

Dimensions Qu-16 Mixer & Weights Desk mounted Back mounted

> Packed in shipping box Unpacked weight Packed weight

> > Qu-24 Mixer Desk mounted Packed in shipping box Unpacked weight Packed weight

Balanced, XLR and 1/4" TRS jack, fully recallable -60 to +5dBu / -50 to +15dBu -5 to +60dB, 1dB steps +19dBu / +29dBu >5kΩ / >10 kΩ 0.0005% -89 dBu (20-20kHz, Direct Out @0dBu 1kHz) 0.001% -83dBu (20-20kHz, Direct Out @0dBu 1kHz) Balanced, 1/4" TRS jack, half normalled Unbalanced, stereo 3.5mm Mini Jack Nominal +4dBu / 0dBu +/-24dB +22dBu / +18dBu >7kQ Ralanced XI R <75Ω +4dBu = 0dB meter reading +22dB -90 dBu (muted, 20-20kHz) Balanced, 1/4* TRS jack Patchable / LR post-fade <750 +4dBu = 0dB meter reading +22dBu -90 dBu (muted, 20-20kHz) 2 channel, 48kHz sampling rate, XLR 2.5Vpp balanced terminated 110Ω Remote source for CH1-32_ST1_ST2_ST3 Patchable from Mix1-10, LR, Grp1-8, MTX1-4 Compatible with AudioBacks AB2412 AB84 AB168 Compatible with ME personal mixing system Measured balanced XLR in to XLR out, 0dB gain, 0dBu input 112 dB +0/-0.5dB 20Hz to 20kHz +18dB OdBu +18dBu = 0dBFS (+22dBu at XLR output) 0dB meter = -18dBFS (+4dBu at XLR out) -3dBFS (+19dBu at XLR out), multi-point sensing -48dBES (-26dBu at XI B out) Fast (peak) response 48kHz +/-100PPM 24-bit Delta-Sigma 1.2 ms (local XLR in to XLR out) 0.7 ms (local XLR in to AES out) 0 deg C to 35 deg C (32 deg F to 95 deg F)

100-240V AC, 50/60Hz 16= 82W, 24= 120W, 32= 150W, Pac= 55W

USB A Refer to Qu Knowledgbase on website 2 channel, WAV, 48kHz, 24-bit, patchable 2 channel, WAV, 44.1 or 48kHz, 16 or 24-bit, to ST3 18 channel, WAV, 48kHz, 24-bit, patchable 18 channel, WAV, 48kHz, 24-bit USB B, Core Audio compliant.

24/32/32/32 channel, WAV, 48kHz, 24-bit 22/30/32/32 channel, WAV, 48kHz, 24-bit

Width x Depth x Height 440 x 500 x 186 mm (17.4" x 19.7" x 7.4") 483 x 472 x 190 mm (19" x 18.6" x 7.5") 610 x 680 x 350 mm (24" x 27" x 13.8") 10 kg (22 lbs) 13.5 kg (30 lbs)

Width x Depth x Height 632 x 500 x 186 mm (24.9" x 19.7" x 7.4") 670 x 790 x 350 mm (26.4" x 31.1" x 13.8") 14 kg (31.lbs) 18 kg (40 lbs)

Control Faders Touch Screen Qu-16, 24, Pac Touch Screen Qu-32 SoftKeys Mute Groups / DCA Groups Network

100mm motorised (no faders on Qu-Pac)

4 (Qu-16), 10 (Qu-24, 32), 15 (Qu-Pac)

TCP/IP Ethernet for MIDI and iPad app

5" TFT, 800x480 resolution

7" TFT, 800x480 resolution

Local, dSNAKE, or USB Local, dSNAKE, or USB Stereo

Odd/even input pairs

Normal/Reverse

FX or Ducke

Up to 85ms

Roll

Self key Sidechain

Self key Sidechain

Soft/Hard

Up to 170ms

Self key Sidechain -46dBu to 18dBu / 1:1 to infinity

Soft/Hard

300us - 300ms / 100ms - 2s

CH1-32 ST1-3 Group

Fast, Medium, Slow

Selectable from any input or output

Single or ganged channel ducking

-72dBu to +18dBu / 0 to 60dB

Rell

12dB/octave 20Hz - 2kHz

-72dBu to +18dBu / 0 to 60dB

50us to 300ms / 10ms to 5s / 10ms to 1s

4-Band fully parametric, 20-20kHz, +/-15dB

Non-constant Q, variable, 1.5 to 1/9th octave

Peak Manual, RMS Manual, SlowOpto, PunchBag

Follow Fader, follow Mute (global options)

Post-Preamp, Pre-EQ, Post-EQ, Post-Delay

Groups = FX or Ducker. Mix/LR/Matrix = FX

4-Band fully parametric, 20-20kHz, +/-15dB Selectable LF Shelving (Baxandall), Bell

Non-constant Q, variable, 1.5 to 1/9th octave

Peak Manual, RMS Manual, SlowOpto, PunchBag

Constant 1/3 oct. 28 bands 31Hz-16kHz, +/-12dB Gain

Selectable LF Shelving (Baxandall), Bell

-46dBu to 18dBu / 1:1 to infinity

300us - 300ms / 100ms - 2s

Qu-Drive or USB B Streaming

EQ, dynamics, insert, delay, assign, sends, Ducker

Preamp, polarity, sidechains, fader/mute, pan

4/4

Input Source Processing CH1-32, ST1, ST2 ST3

USB Global Source Stereo Linking

> Parameters linked Link options

Polarity High Pass Filter Insert Delay

Gate Threshold / Depth Attack / Hold / Release

PEQ Band 1, Band 4 Band 2, Band 3 Bell Width

Compressor Threshold / Ratio Attack / Release Knee Types

Channel Direct Out Source select (global)

Processing Delay GEO PEO Band 1, Band 4 Band 2, Band 3 Bell Width

Mix Inser

Compressor Threshold / Ratio Attack / Release Knee

Talkback

RTA

Dimensions Qu-32 Mixer

E

Signal Generator

Types Ducker Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release

K
 Internal FX
 Types
 Yupes
 Addicated Stereo FX returns
 Addicated Stereo FX returns
 Pafer, Pan, Mute, Routing to Miv/LR, 4-Band PEQ
 Addicated Stereo FX returns
 Pafer, Pan, Mute, Routing to Miv/LR, 4-Band PEQ
 Addicated Stereo FX returns
 Pafer, Pan, Mute, Routing to Miv/LR, 4-Band PEQ

Assignable to any mix, 12dB/oct HPF Assignable to any mix, Sine / White/Pink/Bandpass Noise 31-Bands 1/3 octave 20-20kHz, follows PAFL source

Width x Depth x Height

24 kg (53 lbs)

8.5 kg (18.7 lbs)

& Weights Desk mounted 850 x 500 x 186 mm (33.5" x 19.7" x 7.4") Packed in shipping box 1000 x 680 x 350 mm (30.4" x 26.8" x 13.8") Unpacked weight 20 kg (44 lbs)

Qu-Pac Mixer Desk mounted Rack mounted Packed in shipping box

Unpacked weight

Packed weight

Packed weight

Width x Depth x Height 440 x 174 x 181 mm (17.3° x 6.9° x 7.1°) 483 x 174 x 177 mm (19° x 18.6° x 7°) 4U 620 x 310 x 310 mm (24.4° x 12.2° x 12.2°) 6.8 kg (14.5 lbs)

WWW.ALLEN-HEATH.COM





