

ALLEN&HEATH®

# Digital Mixing Reshaped

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

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



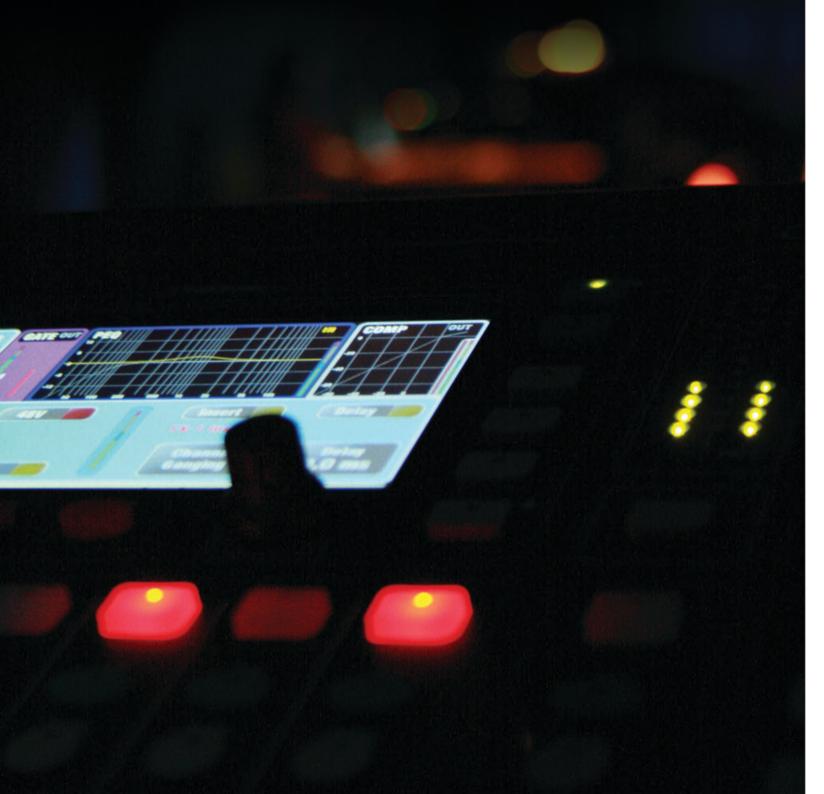


### AnalogiQ<sup>™</sup> Preamps

Our AnalogiQ<sup>™</sup> 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<sup>™</sup> 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

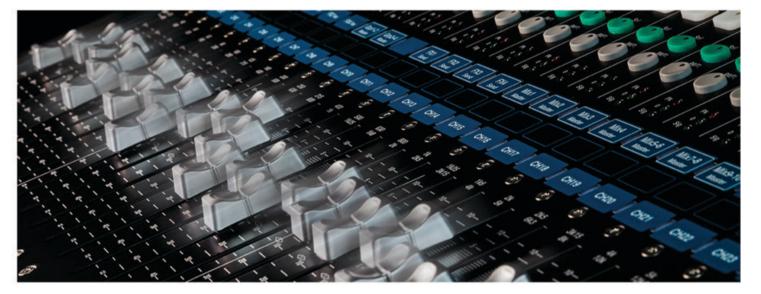
Having massive processing power and advanced functionality is great, but it counts for nothing if you can't access the controls you need in a heartbeat. Once you start using a Qu you'll sense the years of research into ergonomics and the hands-on mixing experience that our team has drawn upon to deliver 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.

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.



### **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.

### **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

Qu's dynamics and FX algorithms are derived from the FX The FX library has the ability to grow with future firmware 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.

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



#### Qu-Drive



### 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.









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.



























performers to control their monitor mixes using their Android device, iPhone, iPad or iPod Touch.









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. All Groups can be used in Mix mode, allowing Qu-24 to offer up to 9 monitor mixes (4 mono + 5 stereo)













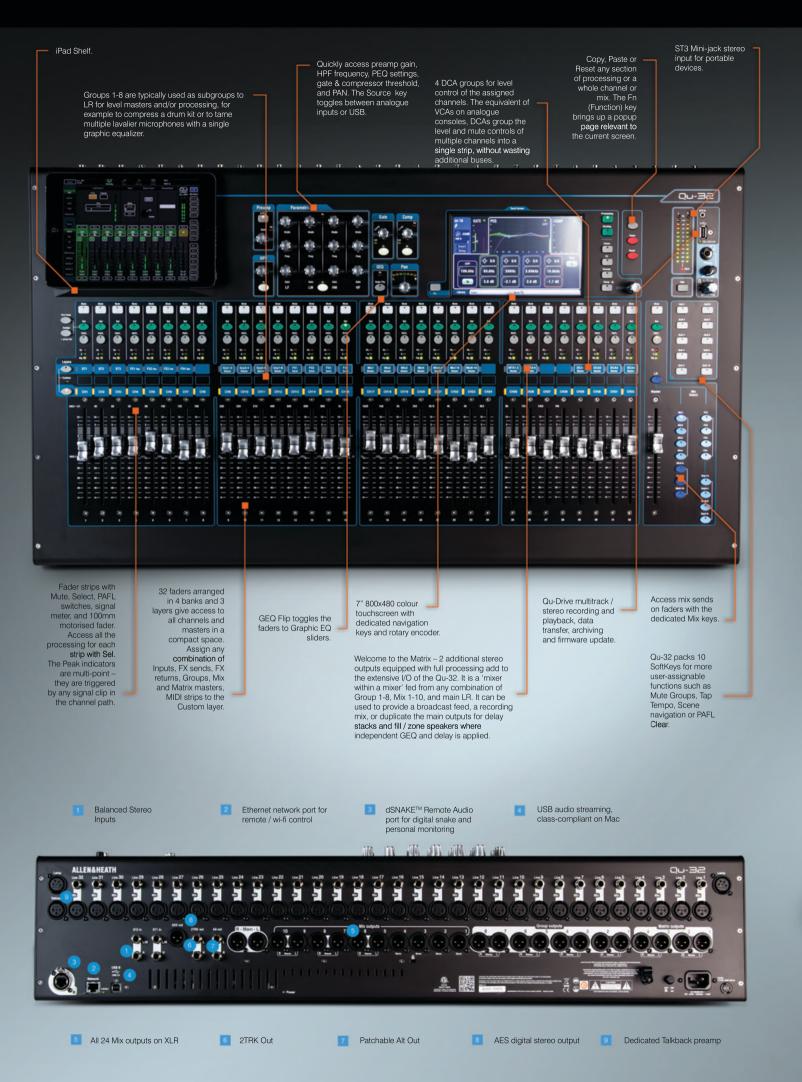
















With 4 DCAs and 40 sources to the mix including stereo inputs and returns, Qu-32 is the equivalent of a 46 channel, 8 groups, 4 VCA analogue console with extensive outboard equipment (38 gates, 62 compressors, 24 graphic equalizers and 4 stereo effects)! All Groups can be used in Mix mode, allowing Qu-32 to offer up to 11 monitor mixes (4 mono + 7 stereo).



Motorised faders provide total 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 between the layers.



Qu's high resolution, full colour Touchscreen and the intuitive Touch Channel interface provide easy acces to channel processing, the Fracks and all setup and system management control



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



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



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



AMM is vital in applications such as conferences, meetings and panel discussions where a number of microphones are open at the same time, reducing background noise and minimising the risk of feedback



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



ou is compatible with Allen & leath's ME Personal Mixing ystem – so you can add 1E-1 personal mixers to your etup to allow performers to ontrol their own monitor

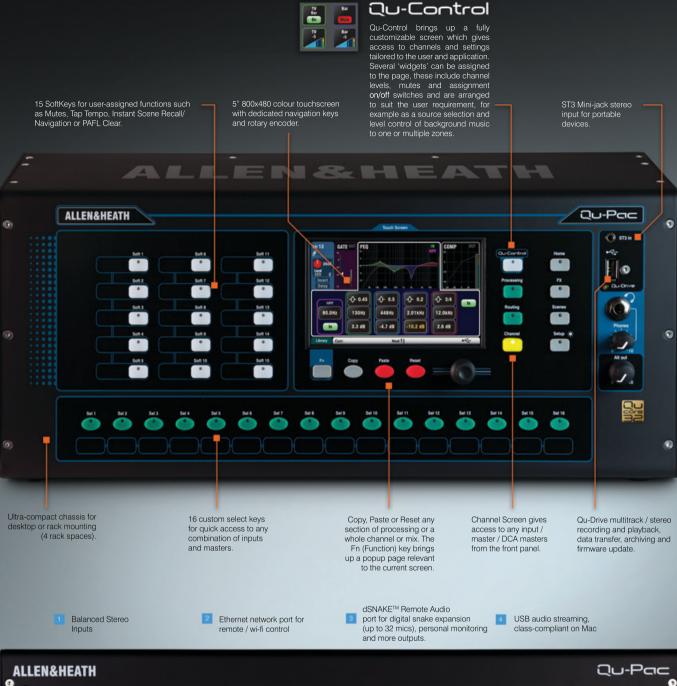


A free iPad app gives instant wireless control of the mixer, so you can tweak the PA, adjust the monitors on stage, and even mix the show from the audience.



u-You allows up to seven erformers to control their nonitor mixes using their ndroid device, iPhone, iPad or Pod Touch.











ULTRA COMPACT DIGITAL MIXER

FOR LIVE, STUDIO AND INSTALLATION

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.

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

All Groups can be used in Mix mode, allowing Qu-Pac to offer up to 11 monitor mixes (4 mono + 7 stereo).



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.











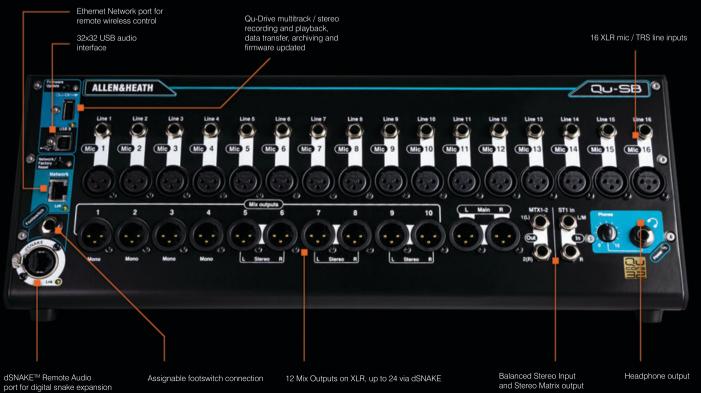












up to 32 mics), personal monitoring





Qu-SB is a super-compact digital mixer designed for iPad control, freeing you to mix from anywhere in the venue and providing a smart, portable solution for bands, AV and installation. The companion Qu-Pad app is a beautifully elegant, intuitive mixing interface, giving easy access to the full wealth of Qu features and setup options.

On top of its 18 onboard inputs and 14 outputs, Qu-SB can be expanded up to 32 mono inputs and 24 outputs by connecting to one of our family of remote AudioRacks over a single Cat5 cable. Any of the mixer's 4 Groups can be used in Mix mode, allowing Qu-SB to offer up to 11 monitor mixes (4 mono + 7 stereo). Couple this with the Qu-You personal monitoring app for Android and iOS, plus the ME-1 personal mixers, and Qu-SB is a fantastic choice for bands looking for the same great monitor sound wherever they play.



## 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.





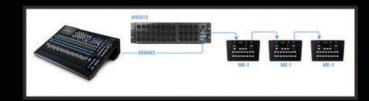
# Qu-You

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

# 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





## 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.

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.

#### AR84

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





### AB16

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-Pac

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

QU-SB-RK19X – Rack mounting kit for Qu-SB

AP9262 - Dust cover for Qu-16

AP9458 - Dust cover for Qu-24

AP9639 - Dust cover for Qu-32

**AP9932** – AB168 Bag

**AP9931** – Qu-16 Bag

AP9933 – Qu-Pac Bag



### **Technical Specifications**

	ieci ilicai op	ecincations			
Inputs	Mic/Line Inputs	Balanced, XLR and 1/4* TRS jack, fully recallable	Control	Faders Qu-16, 24, 32	100mm motorised
	Input Sensitivity (XLR / TRS)	-60 to +5dBu / -50 to +15dBu	-	Touch Screen Qu-16, 24, Pac	5° TFT, 800x480 resolution
	Analogue Gain	-5 to +60dB, 1dB steps		Touch Screen Qu-32	7* TFT, 800x480 resolution
	Maximum Input Level (XLR / TRS)	+19dBu / +29dBu		SoftKeys	4 (Qu-16), 10 (Qu-24, 32), 15 (Qu-Pac)
	Input Impedance (XLR / TRS)	>5kΩ/>10 kΩ		Mute Groups / DCA Groups	4/4
	THD+N, Unity gain 0dB	0.0005% -89 dBu (20-20kHz, Direct Out @0dBu 1kHz)		Network	TCP/IP Ethernet for MIDI and iOS apps
	THD+N, Mid gain +30dB	0.001% -83dBu (20-20kHz, Direct Out @0dBu 1kHz)		HOLWOIN:	TOTAL CONTINCTION WHILE GIVE TO APPLY
	Phantom Power	+48V	Input	Course	
	Phanom Power	+407	TOTAL PROPERTY OF THE PARTY OF	CH1-32, ST1, ST2	Local ACMANY or LICE
	Stereo Line Inputs		Processing	ST3	Local, dSNAKE, or USB
	ST1, ST2 connector	Delegand 1/48 TDC look half germelled		USB Global Source	Local, dSNAKE, or USB Stereo
		Balanced, 1/4* TRS jack, half normalled		USB GIODAI SOUICE	Qu-Drive or USB B Streaming
	ST3 connector (not Qu-SB)	Unbalanced, stereo 3.5mm Mini Jack		Charge I lables	CANADA TOTAL
	Input Sensitivity (ST1, ST2 / ST3)	Nominal +4dBu / 0dBu		Stereo Linking	Odd/even input pairs
	Trim	+/-24dB		Parameters linked	EQ, dynamics, insert, delay, assignments, sends, Ducke
	Maximum Input Level (ST1,ST2 / ST3)	+22dBu / +18dBu		Link options	Preamp, polarity, sidechains, fader/mute, pan
	Input Impedance	>7kΩ		21.0	N
Outnute	Mix1-10 and LR Out	Balanced, XLR		Polarity High Pass Filter	Normal/Reverse 12dB/octave 20Hz – 2kHz
Outputs	Group and Matrix Out (not Qu-16)	(1/4* TRS Matrix Out on Qu-SB)		Insert	FX or Ducker
	Output Impedance	<75Ω		Delay	Up to 85ms
	Nominal Output	+4dBu = 0dB meter reading		Delay	op to eatis
	Maximum Output Level	•		Gate	Self key Sidechain
		+22dBu			
	Residual Output Noise	-90 dBu (muted, 20-20kHz)		Threshold / Depth	-72dBu to +18dBu / 0 to 60dB
	Ob	Palaceted 4/44 TPC Inch		Attack / Hold / Release	50us to 300ms / 10ms to 5s / 10ms to 1s
	Stereo Alt Out & 2Trk Out (not Qu-SB)	Balanced, 1/4* TRS jack			
	Source (Alt Output / 2Trk Output)	Patchable / LR post-fade		PEQ	4-Band fully parametric, 20-20kHz, +/-15dB
	Output Impedance	<75Ω		Band 1, Band 4	Selectable Shelving (Baxandall), Bell
	Nominal Output	+4dBu = 0dB meter reading		Band 2, Band 3	Bell
	Maximum Output Level	+22dBu		Bell Width	Non-constant Q, variable, 1.5 to 1/9th octave
	Residual Output Noise	-90 dBu (muted, 20-20kHz)			
				Compressor	Self key Sidechain
	AES Digital Output (not Qu-SB)	2 channel, 48kHz sampling rate, XLR		Threshold / Ratio	-46dBu to 18dBu / 1:1 to infinity
		2.5Vpp balanced terminated 110Ω		Attack / Release	300us - 300ms / 100ms - 2s
	1/2	The state of the s		Knee	Soft/Hard
dSNAKE	Inputs	Patchable to CH1-32, ST1, ST2, ST3		Types	Peak Manual, RMS Manual, SlowOpto, PunchBag
	Outputs	Patchable from Mix1-10, LR, Grp1-8, MTX1-4		2.77.000	18(15)4(8).125(16)6(8)6(10)16(16)7(8)7(17)8(44)6(14)7(1
		Compatible with AudioRacks AR2412, AR84, AB168		Channel Direct Out to USB	Follow Fader, follow Mute (global options)
		Compatible with ME personal mixing system		Source select (global)	Post-Preamp, Pre-EQ, Post-EQ, Post-Delay
		Companies with the personal month of second		Total or other (groun)	1 000 1 100 100, 1 100 100, 1 000 100 10
System		Measured balanced XLR in to XLR out, OdB gain, OdBu input	Mix	Insert	Assign FX into Mix channels
<i>yy</i> stem	Dynamic Range	112 dB	Processing		Up to 170ms
	Frequency Response	+0'-0.5dB 20Hz to 20kHz	Frocessing	bully	Op to 170tils
				GEQ	Constant 1/3 oct, 28 bands 31Hz-16kHz, +/-12dB Gain
	Headroom	+18dB		GEU	Constant 1/3 oct, 26 bands 31Hz-16kHz, +/-1205 Gain
	Internal operating Level	0dBu		nea.	
	dBFS Alignment	+18dBu = 0dBFS (+22dBu at XLR output)		PEQ	As Input PEQ
	Meter Calibration	0dB meter = -18dBFS (+4dBu at XLR out)			
	Meter Peak indication	-3dBFS (+19dBu at XLR out), multi-point sensing		Compressor	As Input Compressor
	Meter Signal indication	-48dBFS (-26dBu at XLR out)		Person	WORKE .
	Meter Type	Fast (peak) response	AMM	Available on	CH1-16
				Mode	Gain Sharing
	Sampling Rate	48kHz +/-100PPM		Sidechain Filter HPF / LPF	12dB/octave 20Hz - 2kHz / 120Hz - 20kHz
	ADC, DAC	24-bit Delta-Sigma		Priority	-15dB to +15dB per channel
	Latency	1.2 ms (local XLR in to XLR out)			
		0.7 ms (local XLR in to AES out)	Ducker	Available on	CH1-32, ST1-3, Group
				Trigger Source	Selectable from any Input or Output
	Operating Temperature Range	0 deg C to 35 deg C (32 deg F to 95 deg F)		Mode	Single or Ganged
	Mains Power	100-240V AC, 50/60Hz		Threshold / Depth	-72dBu to +18dBu / 0 to 60dB
	Max Power Consumption Qu-16/24/32/Pac/SB	82W/120W/150W/55W/49W		Attack / Hold / Release	Fast, Medium, Slow
		4			
USB Audio	Qu-Drive	USB A	FX	Internal FX	4x RackPX engine, Send > Return or Inserted
	Stereo Record	2 channel, WAV, 48kHz, 24-bit, patchable		Types	Reverbs, Delays, Gated Reverb, ADT
	Stereo Playback	2 channel, WAV, 44.1 or 48kHz, 16 or 24-bit, to ST3		10.00 E-10.00	Chorus, Symphonic Chorus, Phaser, Flanger
	Multitrack Record	18 channel, WAV, 48kHz, 24-bit, patchable		4 dedicated Stereo FX returns	Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ
	Multitrack Playback	18 channel, WAV, 48kHz, 24-bit		Session Stores I A recurris	an, i an, more, fround, to may En, 4-band FEQ
		to stidillo, first, world, CTUR	Audio Tools	PACI	DEI or oteren in place ACI Oto 2440 Telm Of a Date
	USB Audio Streaming	LICE B. Core Audio corrections	Addio 100IS	Talkback	PFL or stereo in-place AFL, 0 to -24dB Trim, 85ms Delay
	그렇게 없었다.	USB B, Core Audio compliant		Signal Generator	Assignable to any mix, Gain, 48V, 12dB/oct HPF
	Send (upstream) Qu-16/24/32/Pac/S8  Return (downetream) Qu-16/24/32/Pac/SR	24/32/32/32 channel, WAV, 48kHz, 24-bit		73.5	Assignable to any mix, Sine / White/Pink/Bandpass Noise
	Return (downstream) Qu-16/24/32/Pac/SB	22/30/32/32/32 channel, WAV, 48kHz, 24-bit		RTA	31-Bands 1/3 octave 20-20kHz, follows PAFL source
	200	D0000000000000000000000000000000000000		19193	2010-02-104-76-703-8-99
imensions	V7.000000000000	Width x Depth x Height		Qu-32	Width x Depth x Height
& Weights		440 x 500 x 186 mm (17.4" x 19.7" x 7.4")		Desk mounted	850 x 500 x 186 mm (33.5" x 19.7" x 7.4")
	Rack mounted	483 x 472 x 190 mm (19" x 18.6" x 7.5")		Packed in shipping box	1000 x 680 x 350 mm (39.4" x 26.8" x 13.8")
	Packed in shipping box	610 x 680 x 350 mm (24" x 27" x 13.8")		Unpacked weight	20 kg (44 lbs)
	Unpacked weight	10 kg (22 lbs)		Packed weight	24 kg (53 lbs)
	Packed weight	13.5 kg (30 lbs)			
				Qu-Pac	Width x Depth x Height
	Qu-24	Width x Depth x Height		Desk mounted	440 x 174 x 181 mm (17.4" x 6.9" x 7.1")
	Desk mounted	632 x 500 x 186 mm (24.9" x 19.7" x 7.4")		Rack mounted	483 x 174 x 177 mm (19" x 6.9" x 7") 4U
	Packed in shipping box	670 x 790 x 350 mm (26.4" x 31.1" x 13.8")		Packed in shipping box	620 x 310 x 310 mm (24.4° x 12.2° x 12.2°)
	Unpacked weight	14 kg (31 lbs)		Unpacked weight	6.6 kg (14.5 lbs)
	Packed weight	18 kg (40 lbs)		Packed weight	8.5 kg (18.7 lbs)
	CONTRACTOR OF CO	2000 C 2000 C		NO GV2 MALITY CO.	200 (0.000 (0.000 (0.000))
				Qu-SB	Width x Depth x Height
				Desk mounted / stagebox use	435 x 174 x 162 mm (17.2" x 6.9" x 6.4")
				Packed in shipping box	550 x 270 x 270 mm (21.7" x 10.6" x 10.6")
				Unpacked weight	4.5 kg (9.9 lbs)
				Parked weight	4.5 kg (9.5 lbs) 5.7 kg (12.7 lbs)

5.7 kg (12.7 lbs)

Packed weight







