

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.





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.

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

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

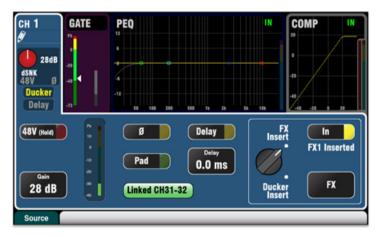
On Qu-16, Qu-24 and Qu-32 all your key processing tools are presented in a clean layout on the SuperStrip, with 1 function per physical control. The SuperStrip is complemented by an onscreen TouchChannel for intuitive access to full processing parameters without clutter or complex menu structures. Processing 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 vour 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.









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.





2TRK Out 6



Balanced Stereo Inputs

Ethernet network port for remote / wi-fi control

USB audio streaming,

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



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



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



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



Allen & Heath's proprietary dSNAKE™ low latency audio connection enables Cat5 connection to a remote audio 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 control 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 the audience



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









COMPACT DIGITAL MIXER

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.



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 access to channel processing, the FX racks and all setup and system management controls.



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



Qu-Drive is an integrated USB 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



Allen & Heath's proprietary dSNAKE™ low latency audio connection enables Cat5 connection to a remote audio 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.

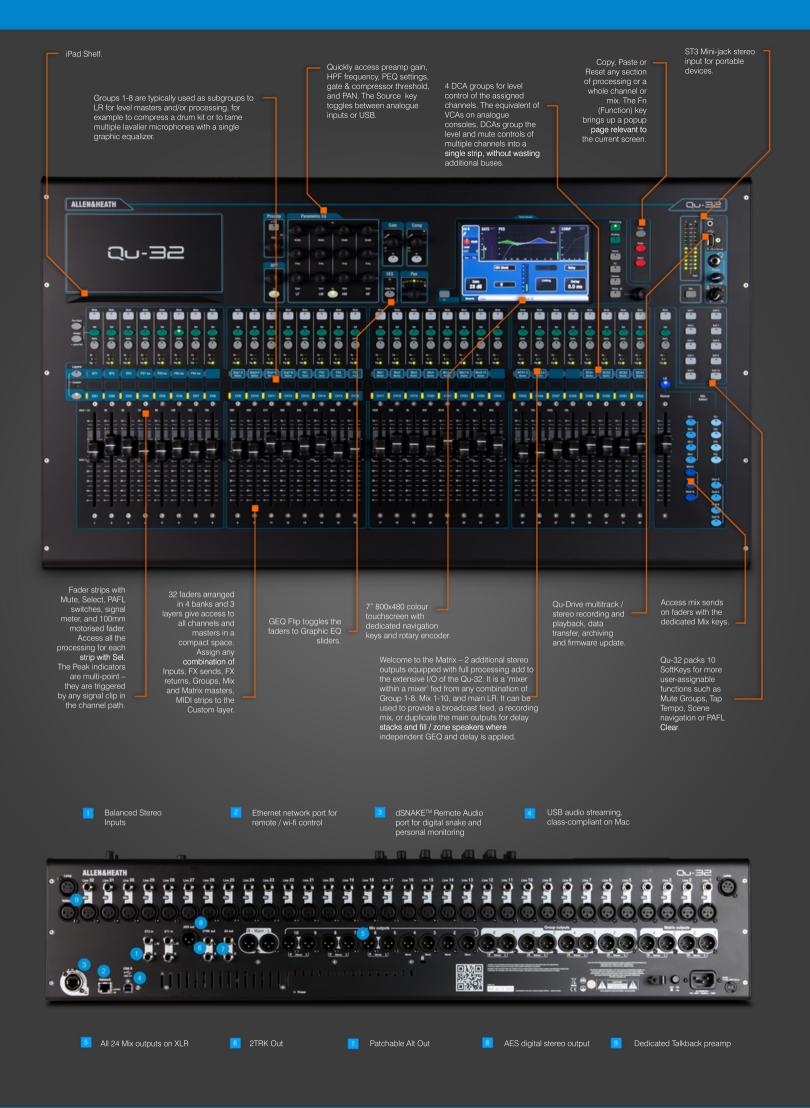


A free iPad app gives instant wireless control of the mixer, so you can tweak the PA, adjust the monitors on stage, and even mix the show from the audience.



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









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)!



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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



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ME-1 personal mixers to your
setup to allow performers to
control 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,



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









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.



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

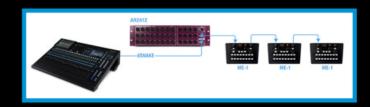
Qu-You allows up to seven performers to control their monitor mixes using an iPhone, iPad or iPod Touch, and frees up the engineer to focus on the audience.

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!).

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 dSNAKETM port (or from an AR2412 / AB168 AudioRack if you've got one connected to the dSNAKETM 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.





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.

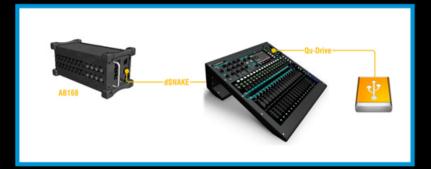
Silence is a precious commodity in the live or studio environment, which is why nobody wants those moments of stillness ruined by the whirring of fans coming from the mix position. Qu's sleek profile generates optimal airflow through the mixer, eliminating the need for any fans.

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.

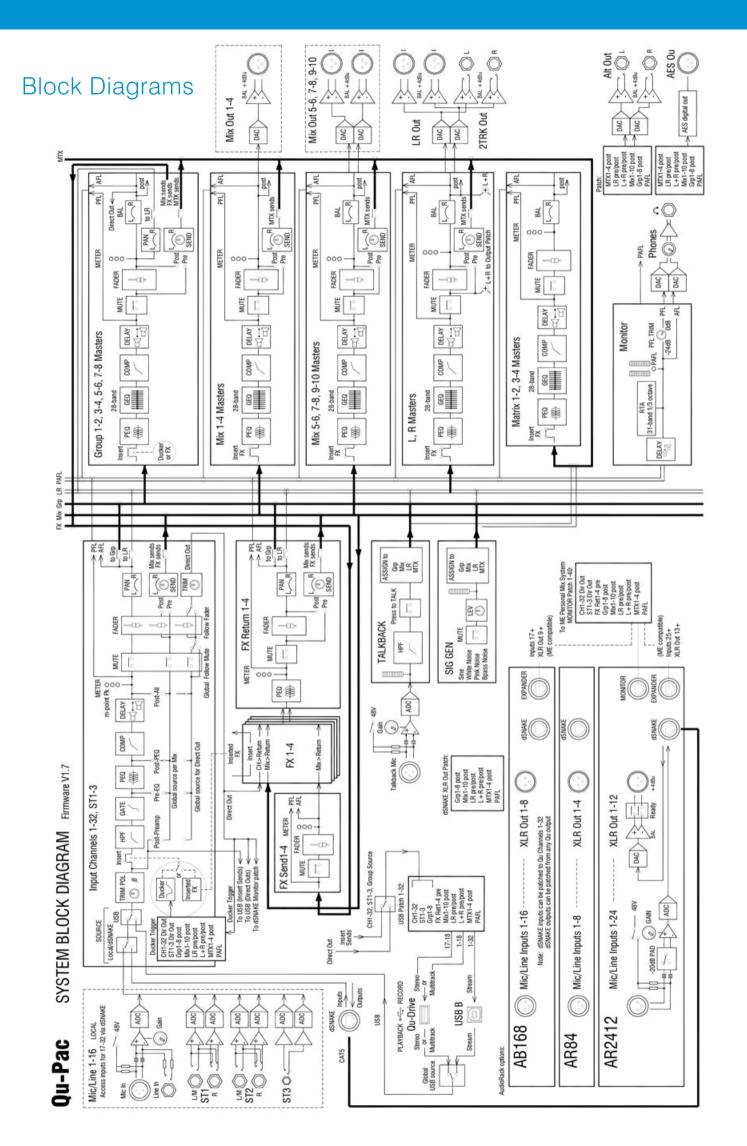
AP9458 – Dust cover for Qu-24

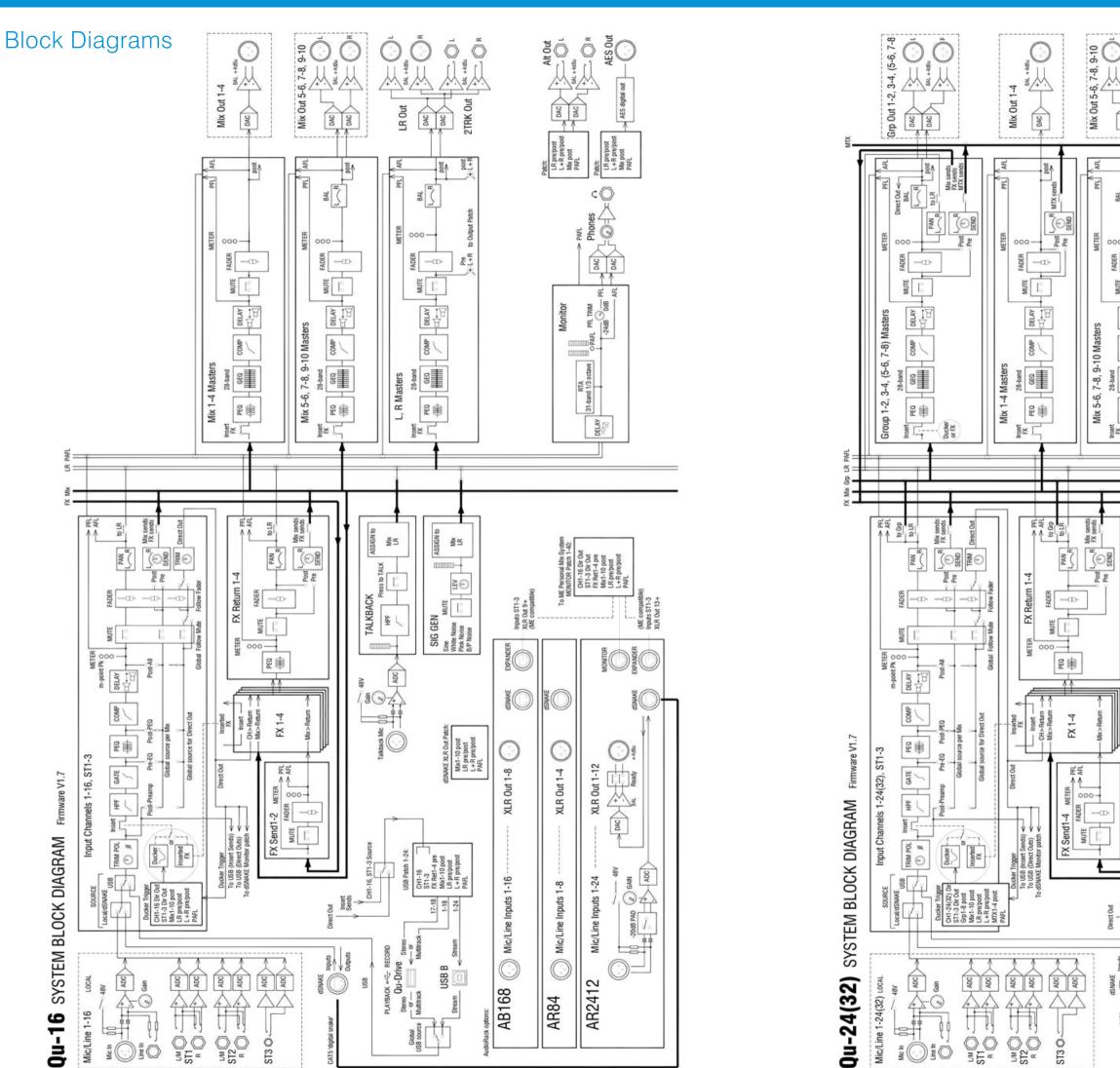
AP9639 - Dust cover for Qu-32.

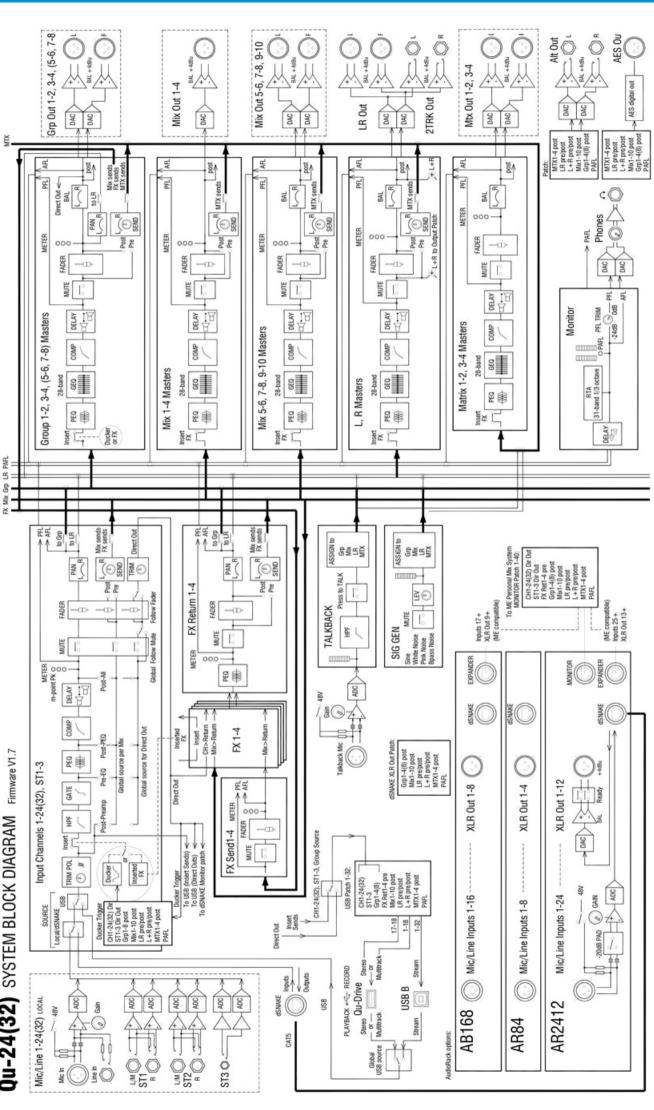
AP9932 – AB168 Bag.

AP9931 – Qu-16 Bag. **AP9933** – Qu-Pac Bag









Technical Specifications

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

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	Mic/Line Inputs	Balanced, XLR and 1/4" TRS jack, fully recallable	Control	Faders	100mm motorised (no faders on Qu-Pac)
	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 iPad app
	THD+N, Mid gain +30dB	0.001% -83dBu (20-20kHz, Direct Out @OdBu 1kHz)		THE WORK	TOTAL CUICING TO MICH and It ad app
		0.001% -00000 (20-2001% Direct Out (Would Thirk)	Input	Source	
	Stereo Line Inputs		2000000	CH1-32, ST1, ST2	Local, dSNAKE, or USB
		W. C. C. C. L. Prop. C. E. E. W. C. L. C.	Frocessing	ST3	
	ST1, ST2 connector	Balanced, 1/4" TRS jack, half normalled			Local, dSNAKE, or USB Stereo
	ST3 connector	Unbalanced, stereo 3.5mm Mini Jack		USB Global Source	Qu-Drive or USB B Streaming
	Input Sensitivity (ST1, ST2 / ST3)	Nominal +4dBu / 0dBu			
	Trim	+/-24dB		Stereo Linking	Odd/even input pairs
	Maximum Input Level (ST1,ST2 / ST3)	+22dBu / +18dBu		Parameters linked	EQ, dynamics, insert, delay, assign, sends, Ducker
	Input Impedance	>7kΩ		Link options	Preamp, polarity, sidechains, fader/mute, pan
		2007 J. L. Maranapage			
	Mix1-10 and LR Out	Balanced, XLR		Polarity	Normal/Reverse
	Group and Matrix Out (Qu-24,32 only)	ON LANCOV		High Pass Filter	12dB/octave 20Hz – 2kHz
	Output Impedance	<75Ω		Insert	FX or Ducker
	Nominal Output	+4dBu = 0dB meter reading		Delay	Up to 85ms
	Maximum Output Level	+22dBu			
	Residual Output Noise	-90 dBu (muted, 20-20kHz)		Gate	Self key Sidechain
				Threshold / Depth	-72dBu to +18dBu / 0 to 60dB
	Stereo Alt Out & 2Trk Out	Balanced, 1/4" TRS jack		Attack / Hold / Release	50us to 300ms / 10ms to 5s / 10ms to 1s
	Source (Alt Output / 2Trk Output)	Patchable / LR post-fade			
	Output Impedance	<75Ω		PEQ	4-Band fully parametric, 20-20kHz, +/-15dB
	Nominal Output	+4dBu = 0dB meter reading		Band 1, Band 4	Selectable LF Shelving (Baxandall), Bell
	Maximum Output Level	+22dBu		Band 2, Band 3	Bell
	Residual Output Noise			Bell Width	Non-constant Q, variable, 1.5 to 1/9th octave
	ricolavai Output Holes	-90 dBu (muted, 20-20kHz)		Dell Milli	ivon-constant a, variable, 1.5 to 1/8th octave
	ATO DIVIDADO A	SO TO STREET, NOT PROVIDE		Commission	0.00
	AES Digital Output	2 channel, 48kHz sampling rate, XLR		Compressor	Self key Sidechain
		2.5Vpp balanced terminated 110Ω		Threshold / Ratio	-46dBu to 18dBu / 1:1 to infinity
		UTION TO THE PERSONNEL PROPERTY OF THE PERSO		Attack / Release	300us - 300ms / 100ms - 2s
dSNAKE	Inputs	Remote source for CH1-32, ST1, ST2, ST3		Knee	Soft/Hard
	Outputs	Patchable from Mix1-10, LR, Grp1-8, MTX1-4		Types	Peak Manual, RMS Manual, SlowOpto, PunchBag
		Compatible with AudioRacks AR2412, AR84, AB168			
		Compatible with ME personal mixing system		Channel Direct Out	Follow Fader, follow Mute (global options)
		7		Source select (global)	Post-Preamp, Pre-EQ, Post-EQ, Post-Delay
System		Measured balanced XLR in to XLR out, 0dB gain, 0dBu input			
	Dynamic Range	112 dB	Mix	Insert	Groups = FX or Ducker. Mix/LR/Matrix = FX
	Frequency Response	+0/-0.5dB 20Hz to 20kHz	Processing	Delay	Up to 170ms
	Headroom	+18dB	5	GEQ	Constant 1/3 oct, 28 bands 31Hz-16kHz, +/-12dB G
	Internal operating Level	OdBu		PEQ	4-Band fully parametric, 20-20kHz, +/-15dB
	dBFS Alignment	+18dBu = 0dBFS (+22dBu at XLR output)		Band 1, Band 4	Selectable LF Shelving (Baxandall), Bell
	Meter Calibration	OdB meter = -18dBFS (+4dBu at XLR out)		Band 2, Band 3	Bell
	Meter Peak indication	-3dBFS (+19dBu at XLR out), multi-point sensing		Bell Width	
				Dell Wildel	Non-constant Q, variable, 1.5 to 1/9th octave
	Meter Signal indication	-48dBFS (-26dBu at XLR out)		Anuturos estas aspeci	recovered transport to a contract
	Meter Type	Fast (peak) response		Compressor	Self key Sidechain
				Threshold / Ratio	-46dBu to 18dBu / 1:1 to infinity
	Sampling Rate	48kHz +/-100PPM		Attack / Release	300us - 300ms / 100ms - 2s
	ADC, DAC	24-bit Delta-Sigma		Knee	Soft/Hard
	Latency				outralu
		1.2 ms (local XLR in to XLR out)		Types	Peak Manual, RMS Manual, SlowOpto, PunchBag
		1.2 ms (local XLR in to XLR out) 0.7 ms (local XLR in to AES out)		Types	
			Ducker	Types Available on	
	Operating Temperature Range		Ducker		Peak Manual, RMS Manual, SlowOpto, PunchBag
		0.7 ms (local XLR in to AES out)	Ducker	Available on	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group
	Operating Temperature Range	0.7 ms (local XLR in to AES out) 0 deg C to 35 deg C (32 deg F to 95 deg F)	Ducker	Available on Trigger Source	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output
	Operating Temperature Range Mains Power	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	Ducker	Available on Trigger Source Mode	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu/0 to 60dB
	Operating Temperature Range Mains Power Power Consumption	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= 62W, 24= 120W, 32= 150W, Pac= 55W	Ducker	Available on Trigger Source Mode Threshold / Depth	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking
SB Audio	Operating Temperature Range Mains Power Power Consumption Qu-Drive	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= 62W, 24= 120W, 32= 150W, Pac= 55W		Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 50dB Fast, Medium, Slow
SB Audio	Operating Temperature Range Mains Power Power Consumption Qu-Orive USB storage device	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		Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu/0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted
SB Audio	Operating Temperature Range Mains Power Power Consumption Qu-Drive USB storage device Stereo Record	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		Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu/0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT
SB Audio	Operating Temperature Range Mains Power Power Consumption Qu-Orive USB storage device Stereo Record Stereo Playback	0.7 ms (total 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		Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send > Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Flanger
SB Audio	Operating Temperature Range Mains Power Power Consumption Qu-Drive USB storage device Stereo Record Stereo Playback Multitrack Record	0.7 ms (total 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		Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu/0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT
SB Audio	Operating Temperature Range Mains Power Power Consumption Qu-Orive USB storage device Stereo Record Stereo Playback	0.7 ms (total 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	FX	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x Rackf/X engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Ranger Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ
SB Audio	Operating Temperature Range Mains Power Power Consumption Qu-Drive USB storage device Stereo Record Stereo Playback Multitrack Record Multitrack Playback	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		Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Hanger Fader, Pan, Mute, Rouling to Mix/LR, 4-Band PEQ PEL or stereo in-place AFL, 0 to -24dB Trim, 85ms D
SB Audio	Operating Temperature Range Mains Power Power Consumption Qu-Drive USB storage device Stereo Record Stereo Playback Multitrack Record Multitrack Playback USB Audio Streaming	0.7 ms (total 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= 62W, 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, patchable 18 channel, WAV, 48kHz, 24-bit	FX	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send > Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Flanger Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ PFL or stereo in-place AFL, 0 to -24dB Trim, 85ms Do Assignable to any mix, 12dB/oct HPF
SB Audio	Operating Temperature Range Mains Power Power Consumption Qu-Drive USB storage device Stereo Record Stereo Playback Multitrack Playback USB Audio Streaming Send (upstream) Qu-16/24/32/Pac	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= 62W, 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 49kHz, 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	FX	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback Signal Generator	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Flanger Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ PEL or stereo in-place AFL, 0 to -24dB Trim, 86ms D Assignable to any mix, 12dB/oct HPF Assignable to any mix, Sine / White/Pink/Bandpass N
SB Audio	Operating Temperature Range Mains Power Power Consumption Qu-Drive USB storage device Stereo Record Stereo Playback Multitrack Record Multitrack Playback USB Audio Streaming	0.7 ms (total 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= 62W, 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, patchable 18 channel, WAV, 48kHz, 24-bit	FX	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback	Peak Manual, RMS Manual, StowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Hanger Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ PEL or stereo in-place AFL, 0 to -24dB Trim, 85ms D Assignable to any mix, Sine / White/Pink/Bandpass N
SB Audio	Operating Temperature Range Mains Power Power Consumption Qu-Orive 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	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= 62W, 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 49kHz, 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	FX Audio Tools	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback Signal Generator RTA	Peak Manual, RMS Manual, StowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Hanger Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ PEL or stereo in-place AFL, 0 to -24dB Trim, 85ms D Assignable to any mix, Sine / White/Pink/Bandpass N
SB Audio	Operating Temperature Range Mains Power Power Consumption Qu-Drive USB storage device Stereo Record Stereo Playback Multitrack Record Multitrack Playback USB Audio Streaming Send (upstream) Qu-16/24/32/Pac Retum (downstream) Qu-16/24/32/Pac Qu-16 Mixer	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= 62W, 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 49kHz, 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	FX Audio Tools Dimensions	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback Signal Generator RTA Qu-32 Mixer	Peak Manual, RMS Manual, StowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Hanger Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ PEL or stereo in-place AFL, 0 to -24dB Trim, 85ms D Assignable to any mix, Sine / White/Pink/Bandpass N
SB Audio	Operating Temperature Range Mains Power Power Consumption Qu-Orive 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	0.7 ms (total XLR in to AES out) 0 deg C to 35 deg C (32 deg F to 95 deg F) 100-240V AC, 50/90Hz 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, 48kHz, 24-bit, patchable 18 channel, WAV, 44.1 or 48kHz, 16 or 24-bit, to ST3 18 channel, WAV, 48kHz, 24-bit USB B, Core Audio compilant 24/32/32/32 channel, WAV, 48kHz, 24-bit 22/30/32/32 channel, WAV, 48kHz, 24-bit	FX Audio Tools	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback Signal Generator RTA Qu-32 Mixer	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Ranger Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ PFL or stereo in-place AFL, 0 to -24dB Trim, 85ms D Assignable to any mix, 12dB/oct HPF Assignable to any mix, Sine / White/Pink/Bandpass N 31-Bands 1/3 octave 20-20kHz, follows PAFL source
SB Audio nensions Weights	Operating Temperature Range Mains Power Power Consumption Qu-Drive USB storage device Stereo Record Stereo Playback Multitrack Record Multitrack Playback USB Audio Streaming Send (upstream) Qu-16/24/32/Pac Retum (downstream) Qu-16/24/32/Pac Qu-16 Mixer	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, 48kHz, 24-bit, patchable 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 Width x Depth x Height.	FX Audio Tools Dimensions	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback Signal Generator RTA Qu-32 Mixer	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Ranger Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ PEL or stereo in-place AFL, 0 to -24dB Trim, 85ms D Assignable to any mix, 12dB/oct HPF Assignable to any mix, 12dB/oct HPF Assignable to any mix, 5me / White/Pink/Bandpass M 31-Bands 1/3 octave 20-20kHz, follows PAFL source Width x Depth x Height
SB Audio nensions Weights	Operating Temperature Range Mains Power Power Consumption Qu-Drive USB storage device Stereo Record Stereo Playback Multitrack Record Multitrack Record Multitrack Playback USB Audio Streaming Send (upstream) Qu-16/24/32/Pac Return (downstream) Qu-18/24/32/Pac Qu-16 Mixer Desk mounted Rack mounted	0.7 ms (local XLR in to AES out) 0 deg 0 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, 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 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")	FX Audio Tools Dimensions	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback Signal Generator RTA Qu-32 Mixer Desk mounted Packed in shipping box	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72/Bu to +18/Bbu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gade Reverb, ADT Chorus, Symphonic Chorus, Phaser, Ranger Fader, Pan, Mute, Rouling to Mix/LR, 4-Band PEQ PPL or stereo in-place AFL, 0 to -24dB Trim, 85ms D Assignable to any mix, 12dB/oct HPF Assignable to any mix, Sine / White/Pink/Bandpass N 31-Bands 1/3 octave 20-20kHz, follows PAFL source Width x Depth x Height. 850 x 500 x 186 mm (33.5" x 19.7" x 7.4") 1000 x 680 x 350 mm (39.4" x 26.8" x 13.8")
SB Audio Mensions Weights	Operating Temperature Range Mains Power Power Consumption Qu-Drive USB storage device Stereo Record Stereo Playback Multitrack Playback USB Audio Streaming Send (upstream) Qu-16/24/32/Pac Return (downstream) Qu-16/24/32/Pac Qu-16 Mixer Desk mounted Rack mounted Packed in shipping box	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 = 62W, 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, 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°)	FX Audio Tools Dimensions	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback Signal Generator RTA Qu-32 Mixer Desk mounted Packed in shipping box Unpacked weight	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -726Bu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Flanger Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ PFL or stereo in-place AFL, 0 to -24dB Trim, 85ms D Assignable to any mix, 12dB/oct HPF Assignable to any mix, Sine / White/Pink/Bandpass N 31-Bands 1/3 octave 20-20kHz, follows PAFL source Width x Depth x Height 850 x 500 x 186 mm (33.5" x 19.7" x 7.4") 1000 x 680 x 350 mm (39.4" x 26.8" x 13.8") 20 kg (44 lbs)
SB Audio nensions Weights	Operating Temperature Range Mains Power Power Consumption Qu-Drive USB storage device Stereo Record Stereo Playback Multitrack Playback USB Audio Streaming Send (upstream) Qu-16/24/32/Pac Return (downstream) Qu-16/24/32/Pac Qu-16 Mixer Desk mounted Rack mounted Packed in shipping box Unpacked weight	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, 48kHz, 24-bit, patchable 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 (15° x 18.6° x 7.5°) 610 x 680 x 350 mm (24° x 27° x 13.8°) 10 kg (22 lbs)	FX Audio Tools Dimensions	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback Signal Generator RTA Qu-32 Mixer Desk mounted Packed in shipping box	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72/Bu to +18/Bbu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gade Reverb, ADT Chorus, Symphonic Chorus, Phaser, Ranger Fader, Pan, Mute, Rouling to Mix/LR, 4-Band PEQ PPL or stereo in-place AFL, 0 to -24dB Trim, 85ms D Assignable to any mix, 12dB/oct HPF Assignable to any mix, Sine / White/Pink/Bandpass N 31-Bands 1/3 octave 20-20kHz, follows PAFL source Width x Depth x Height. 850 x 500 x 186 mm (33.5" x 19.7" x 7.4") 1000 x 680 x 350 mm (39.4" x 26.8" x 13.8")
SB Audio nensions Weights	Operating Temperature Range Mains Power Power Consumption Qu-Drive USB storage device Stereo Record Stereo Playback Multitrack Playback USB Audio Streaming Send (upstream) Qu-16/24/32/Pac Return (downstream) Qu-16/24/32/Pac Qu-16 Mixer Desk mounted Rack mounted Packed in shipping box	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 = 62W, 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, 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°)	FX Audio Tools Dimensions	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback Signal Generator RTA Qu-32 Mixer Desk mounted Packed in shipping box Unpacked weight Packed weight	Peak Manual, RMS Manual, StowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send > Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Ranger Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ PEL or stereo in-place AFL, 0 to -24dB Trim, 85ms D Assignable to any mix, 12dB/octHPF Assignable to any mix, 12dB/octHPF Assignable to any mix, Sine / White/Pink/Bandpass N 31-Bands 1/3 octave 20-20kHz, follows PAFL source Width x Depth x Height 850 x 500 x 186 mm (33.5" x 19.7" x 7.4") 1000 x 680 x 350 mm (39.4" x 26.8" x 13.8") 20 kg (44 lbs) 24 kg (53 lbs)
SB Audio nensions Weights	Operating Temperature Range Mains Power Power Consumption 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 Qu-16 Mixer Desk mounted Rack mounted Packed in shipping box Unpacked weight Packed weight	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, 44kHz, 24-bit, patchable 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 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 (15° 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)	FX Audio Tools Dimensions	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback Signal Generator RTA Ou-32 Mixer Desk mounted Packed in shipping box Unpacked weight Packed weight Qu-Pac Mixer	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Ranger Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEO PFL or stereo in-place AFL, 0 to -24dB Trim, 85ms D Assignable to any mk, 12dB/oct HPF Midth x Depth x Height 850 x 500 x 186 mm (33.5" x 19.7" x 7.4") 1000 x 880 x 350 mm (39.4" x 26.8" x 13.8") 20 kg (44 lbs) 24 kg (53 lbs) Width x Depth x Height
SB Audio nensions Weights	Operating Temperature Range Mains Power Power Consumption 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 Qu-16 Mixer Desk mounted Rack mounted Rack mounted Packed in shipping box Unpacked weight Packed weight Qu-24 Mixer	0.7 ms (local XLR in to AES out) 0 deg 0 to 35 deg C (32 deg F to 95 deg F) 100-240V AC, 50/80Hz 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, patchable 18 channel, WAV, 48kHz, 24-bit 24/32/32/32 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)	FX Audio Tools Dimensions	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback Signal Generator RTA Ou-32 Mixer Desk mounted Packed weight Packed weight Packed weight Ou-Pac Mixer Desk mounted	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Hanger Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ PFL or stereo in-place AFL, 0 to -24dB Trim, 85ms D Assignable to any mk, 12dB/loct HPF Assignable to any mk, 1
SB Audio nensions Weights	Operating Temperature Range Mains Power Power Consumption Qu-Drive USB storage device Stereo Record Stereo Playback Multitrack Record Multitrack Record Multitrack Playback USB Audio Streaming Send (upstream) Qu-16/24/32/Pac Return (downstream) Qu-18/24/32/Pac Qu-16 Mixer Desk mounted Rack mounted Packed in shipping box Unpacked weight Packed weight Qu-24 Mixer Desk mounted	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, 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*)	FX Audio Tools Dimensions	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback Signal Generator RTA Qu-32 Mixer Desk mounted Packed in shipping box Unpacked weight Packed weight Qu-Pac Mixer Desk mounted Rack mounted Rack mounted Rack mounted	Peak Manual, RMS Manual, StowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to + 18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send > Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Ranger Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ PPL or stereo in-place AFL, 0 to -24dB Trim, 85ms D Assignable to any mix, 12dB/oct HPF Assignable to any mix, 12dB/oct HPF Assignable to any mix, 12dB/oct HPF Assignable to any mix, 5ine / White/Pink/Bandpass N 31-Bands 1/3 octave 20-20kHz, follows PAFL source Width x Depth x Height 850 x 500 x 186 mm (33.5 " x 19.7" x 7.4") 1000 x 680 x 350 mm (39.4" x 26.8" x 13.8") 20 kg (44 lbs) 24 kg (53 lbs) Width x Depth x Height 440 x 174 x 181 mm (17.3" x 8.9" x 7.1") 483 x 174 x 177 mm (19" x 18.5" x 7") 4U
SB Audio mensions Weights	Operating Temperature Range Mains Power Power Consumption 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 Qu-16 Mixer Desk mounted Rack mounted Rack mounted Packed in shipping box Unpacked weight Packed weight Qu-24 Mixer	0.7 ms (local XLR in to AES out) 0 deg 0 to 35 deg C (32 deg F to 95 deg F) 100-240V AC, 50/80Hz 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, patchable 18 channel, WAV, 48kHz, 24-bit 24/32/32/32 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)	FX Audio Tools Dimensions	Available on Trigger Source Mode Threshold / Depth Attack / Hold / Release Internal FX Types 4 dedicated Stereo FX returns PAFL Talkback Signal Generator RTA Ou-32 Mixer Desk mounted Packed weight Packed weight Packed weight Ou-Pac Mixer Desk mounted	Peak Manual, RMS Manual, SlowOpto, PunchBag CH1-32, ST1-3, Group Selectable from any input or output Single or ganged channel ducking -72dBu to +18dBu / 0 to 60dB Fast, Medium, Slow 4x RackFX engine, Send>Return or Inserted Reverbs, Delays, Gated Reverb, ADT Chorus, Symphonic Chorus, Phaser, Flanger Fader, Pan, Mute, Rouling to Mix/LR, 4-Band PEQ PFL or stereo in-place AFL, 0 to -24dB Trim, 85ms D Assignable to any mix, 12dB/cdt HPF Assignable to any mix, Sine / Whitle/Pink/Bandpass N 31-Bands 1/3 octave 20-20kHz, follows PAFL source Width x Depth x Height 850 x 500 x 186 mm (33.5" x 19.7" x 7.4") 1000 x 680 x 350 mm (39.4" x 26.8" x 13.8") 20 kg (44 lbs) 24 ka (53 lbs) Width x Depth x Height 440 x 174 x 181 mm (17.3" x 6.9" x 7.1")







