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.

**Qu-16**
- 16 mono inputs
- 3 stereo inputs
- 12 mono outputs
- 17 motor faders
- 4 STEREO GROUPS
- 4 FX ENGINE
- 4 EFFECT RACKS
- AES DIGITAL OUT
- DCA GROUPS
- 4
- USB 2.0 Audio Streaming
- MIDI CONTROL
- 19” Rackable
- CHANNEL DUCKER

**Qu-24**
- 24 mono inputs
- 3 stereo inputs
- 20 mono outputs
- 2 STEREO GROUPS
- 25 motor faders
- 4 STEREO GROUPS
- 4 STEREO/RETURN
- 4 DCA GROUPS
- AES DIGITAL OUT
- DAW
- MECH CONTROL
- 10 SOFTkeys
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.

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.

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.

AnalogiQ™
Preamps
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.

Automatic Mic Mixer (AMM)

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 minimizing the risk of feedback, the Automatic Microphone Mixer helps the engineer to manage the levels of multiple mic inputs, ensuring that each speaker’s contribution is heard clearly. The D-Classic dynamic gain sharing algorithm is inspired by industry standard automixers. Up to 16 microphone sources can be mixed at once, with each channel having a priority setting which determines its 'weight' in the total system gain.
**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.

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**iLive FX**

Qu’s dynamics and FX algorithms are derived from the 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.

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.

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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.
Quickly access preamp gain, HPF frequency, PEQ settings, gate & compressor threshold, and PAN. The Source key toggles between analogue inputs or USB.

Fader strips with Mute, Select, PAFL switches, signal meter, and 100mm motorised fader. Access all the processing for each strip with Sel. The Peak indicators are multi-point – they are triggered by any signal clip in the channel path.

16 faders in 3 layers give access to all channels and masters in a compact space. Assign any combination of Inputs, FX sends, FX returns and Mix masters to the Custom layer.

Access mix sends on faders with the dedicated Mix keys.

4 user-assignable SoftKeys for scene recall, mutes, tap tempo and more.
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.
Access Mix sends faders with the dedicated Mix keys.

Groups 1-4 are typically used as subgroups to L/R for level example to compress a drum kit or as tone multiple microphones with a single graphic equalizer.

Welcome to the Matrix – 2 additional stereo outputs equipped with full processing and the extensive I/O of the Qu-16, and only mix can be assigned to Group 1-4 to a master with a single stereo input for portable devices.

5" 800x480 colour touchscreen with dedicated navigation keys and rotary encoder. The Peak indicators are multiv-point – they are triggered by any signal clip in the channel path for each strip with Send/Return. Groups, Mix and Matrix Masters are colour.

Quickly access faders and sliders for each strip with Mix Select/Select, PFL and 10mm pads. 24 faders in 3 layers give access to all channels and masters in a compact space. Assign any combination of inputs, FX sends, FX returns, Groups, Mix and Matrix Masters to the Custom layer. Fader strips with Mute, Select and PFL switches, signal meter, and 100mm motorized faders. Access all the processing for each strip with Mix Select/Select, PFL and 10mm pads. The fine multi-touchscreen with dedicated navigation keys and rotary encoder. The Peak indicators are multiv-point – they are triggered by any signal clip in the channel path for each strip with Send/Return. Groups, Mix and Matrix Masters are colour.

Quickly access preamp gain, HPF frequency, PEQ settings, gate & compressor threshold, and Pan. The Source key toggles between analog inputs or USB.

The custom layer gives access to a whole mix for entire groups and mains and to an extensive 10 fader mixer for portable devices.

The PFL & Mute key toggles between analog inputs or USB.

ST3 Mini-jack stereo input for portable devices.

Quickly access preamp gain, HPF frequency, PEQ settings, gate & compressor threshold, and Pan. The Source key toggles between analog inputs or USB.

The custom layer gives access to a whole mix for entire groups and mains and to an extensive 10 fader mixer for portable devices.
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).
Welcome to the Matrix – 2 additional stereo outputs equipped with full processing add to the extensive I/O of the Qu-32. It is a ‘mixer within a mixer’ fed from any combination of Group 1-8, Mix 1-10, and main LR. It can be used to provide a broadcast feed, a recording mix, or duplicate the main outputs for delay stacks and fill / zone speakers where independent GEQ and delay is applied.

Quickly access preamp gain, HPF frequency, PEQ settings, gate & compressor threshold, and PAN. The Source key toggles between analogue inputs or USB.

Groups 1-8 are typically used as subgroups to LR for level masters and/or processing, for example to compress a drum kit or to tame multiple lavalier microphones with a single graphic equalizer.

32 faders arranged in 4 banks and 3 layers give access to all channels and masters in a compact space. Assign any combination of Inputs, FX sends, FX returns, Groups, Mix and Matrix masters, MIDI strips to the Custom layer.

4 DCA groups for level control of the assigned channels. The equivalent of VCAs on analogue consoles, DCAs group the level and mute controls of multiple channels into a single strip, without wasting additional buses.

Copy, Paste or Reset any section of processing or a whole channel or mix. The Fn (Function) key brings up a popup page relevant to the current screen.

ST3 Mini-jack stereo input for portable devices.

Access mix sends on faders with the dedicated Mix keys.

Qu-32 packs 10 SoftKeys for more user-assignable functions such as Mute Groups, Tap Tempo, Scene navigation or PAFL Clear.

Copy, Paste or Reset any section of processing or a whole channel or mix. The Fn (Function) key brings up a popup page relevant to the current screen.

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Quickly access preamp gain, HPF frequency, PEQ settings, gate & compressor threshold, and PAN. The Source key toggles between analogue inputs or USB.

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ST3 Mini-jack stereo input for portable devices.

Access mix sends on faders with the dedicated Mix keys.

Qu-32 packs 10 SoftKeys for more user-assignable functions such as Mute Groups, Tap Tempo, Scene navigation or PAFL Clear.
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).

1. Balanced Stereo Inputs
2. Ethernet network port for remote / wi-fi control
3. dSNAKE™ Remote Audio port for digital snake and personal monitoring
4. USB audio streaming, class-compliant on Mac
5. All 24 Mix outputs on XLR
6. 2TRK Out
7. Patchable Alt Out
8. AES digital stereo output
9. Dedicated Talkback preamp
15 SoftKeys for user-assigned functions such as Mutes, Tap Tempo, Instant Scene Recall/Navigation or PAFL Clear.

Qu-Control brings up a fully customizable screen which gives access to channels and settings tailored to the user and application. Several 'widgets' can be assigned to the page, these include channel levels, mutes and assignment on/off switches and are arranged to suit the user requirement. For example as a source selection and level control of background music to one or multiple zones.

ST3 Mini-jack stereo input for portable devices.

5" 800x480 colour touchscreen with dedicated navigation keys and rotary encoder.

Ultra-compact chassis for desktop or rack mounting (4 rack spaces).

16 custom select keys for quick access to any combination of inputs and masters.

Copy, Paste or Reset any section of processing or a whole channel or mix. The Fn (Function) key brings up a popup page for the current screen.

Channel Screen gives access to any input / master / DCA masters from the front panel.

Qu-Drive multitrack / stereo recording and playback, data transfer, archiving and firmware update.

1 Balanced Stereo Inputs
2 Ethernet network port for remote / Wi-Fi control
3 dSNAKE™ Remote Audio port for digital snake expansion and personal monitoring
4 USB audio streaming, class-compliant on Mac
5 All 24 Mix outputs on XLR
6 2TRK Out
7 Patchable Alt Out
8 AES digital stereo output
9 Dedicated Talkback preamp

Allen & Heath
Qu-Pac takes the power and legendary quality of the Qu family and shrinks it into a ultra-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, fail-safe solution for hardworking bands, schools, hotels, corporate events, live music bars, conferences, personal mixing and many more scenarios requiring a professional 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.
Headphone output

32x32 USB audio interface

16 XLR mic / TRS line inputs

Assignable footswitch connection

32x32 USB audio interface

Qu-Drive multitrack / stereo recording and playback, data transfer, archiving and firmware updates

Ethernet Network port for remote wireless control

12 Mix Outputs on XLR, up to 24 via dSNAKE

Balanced Stereo Input and Stereo Matrix output

dSNAKE™ Remote Audio port for digital snake expansion (up to 32 mics), personal monitoring and more outputs.

Headphone output
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.

AB168
Portable rugged 16 inputs, 8 outputs stagebox with dSNAKE™ connection and expansion port.
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

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.
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

- **AH9550** – 100m drum of EtherFlex Cat5 with locking Neutrik EtherCon connectors
- **AH9981** – 50m drum of EtherFlex Cat5 with locking Neutrik EtherCon connectors
- **AH9551** – 20m EtherFlex Cat5 with locking Neutrik EtherCon connectors
- **LED Lamp** – 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

### Inputs
- **Microphone Inputs**
  - Balanced, XLR, and 1/4" TRS jack, fully available
  - Input Sensitivity (XLR / TRS)
    - 60 dB + 48V = 400 mV / 150 ohms
  - Preamp Gain
    - 500 mV > 600 mV, 15 dB gain
  - Maximum Input Level (XLR / TRS)
    - +10 dBu = +23 dBu
  - Input Impedance (XLR / TRS)
    - +500 ohms / +10 k ohms
  - THD + Noise Gain
    - 0.003% THD + Noise (22 Hz - 20 kHz), Direct Out (0 dBu / 47 kHz)
  - THD + Noise Gain -50 dB
    - 0.003% THD + Noise (22 Hz - 20 kHz), Direct Out (0 dBu / 47 kHz)
  - Phantom Power
    - +48V

- **Stereo Line Inputs**
  - ST1, ST2 connectors
  - Balanced, 1/4" TRS jack, last terminated
  - Input Sensitivity (ST1, ST2 / ST3)
    - Connect to stereo speaker, 500mV Mini Jack
  - Trim
    - +4 dB / 0 dB
  - Maximum Input Level (ST1, ST2 / ST3)
    - +28 dBu = +42 dBu
  - Input Impedance
    - +75 ohms

### Outputs
- **Mict-10 and LR Out**
  - Balanced, XLR
  - Output Impedance
    - +48 ohms / 0 ohms
  - Maximum Output Level
    - +24 dBu
  - Output Noise
    - -66 dBu (measured, 20kHz)

- **Stereo Mix-Out & 21kHz Out (pat. US-60)**
  - Balanced, 1/4" TRS jack
  - Source (All Output / 21kHz Output)
    - Potentiometer (L/R potentiometer)
  - Output Impedance
    - +75 ohms
  - Trim
    - +48 ohms / 0 ohms
  - Maximum Output Level
    - +24 dBu
  - Output Noise
    - -66 dBu (measured, 20kHz)

- **AES Digital Output (pat. US-60)**
  - 2 channel, 48kHz sampling rate, XLR
  - 2.5pFpppe balanced terminated 110Ω

### dSNAKE
- **Inputs**
  - Potentiometer from Promo-10, LR, GR-1, MC-10-4
  - Compatible with Audio-Technica AP441, AP644, AS4818
  - System
    - Dynamic Range
      - Measured balanced XLR in to XLR out, 0dB gain, input level
    - Frequency Response
      - +48V: 20Hz to 20kHz
    - Humor
      - 10dB
    - Internal Looping Level
      - 0DB
    - dBFS Alignment
      - +16dBFS = 0dBFS (+22dB at XLR output)
    - Meter Calibrations
      - 0DB meter = -48V (-48dB at XLR)
    - Meter Peak indication
      - -36dBFS = 0dBFS at XLR (out), multi-scale ranging
    - Meter Signal indication
      - -48dBFS = 0dBFS at XLR (out)
    - Meter Types
      - TRUE (peak) response
    - Sampling Rate
      - 48kHz
    - ADC / DAC
      - 32-bit Extra-Linear
    - Resolution
      - 1.2mm (local XLR in to XLR out)
    - Operating Temperature Range
      - 0°C to 35°C (2°C to 95°F)
    - Power
      - 12V DC (9V-15V)
    - Max Power Consumption
      - 162/120/100/55/40W

### USB Audio
- **USB Audio Interface**
  - USB A
  - Stereo Record
    - WAV, 48kHz, 24-bit, patentable
  - Stereo Playback
    - 2 channels, WAV, 44.1 or 48kHz, 16 or 24-bit, in ST3
  - Multitrack Record
    - 16 channels, WAV, 48kHz, 24-bit, patentable
  - Multitrack Playback
    - 16 channels, WAV, 48kHz, 24-bit

### USB Audio Steaming
- **Send (streamed)**
  - 24/32/192/24-bit, patentable
- **Receive (streamed)**
  - 24/32/24-bit, patentable

### Dimensions & Weights
- **On-16**
  - Width x Depth x Height
    - Desk mounted: 442 x 300 x 180 mm (17.4" x 19.7" x 7.1"
    - Rack mounted: 440 x 272 x 190 mm (17.4" x 19.7" x 7.5"
    - Packed in shipping box: 610 x 690 x 350 mm (24" x 27" x 13.8"
    - Unpacked weight: 10 kg (22 lbs)
    - Packed weight: 15.5 kg (34 lbs)
- **On-24**
  - Width x Depth x Height
    - Desk mounted: 622 x 300 x 180 mm (24" x 19.7" x 7.1"
    - Rack mounted: 610 x 300 x 350 mm (24" x 12.2" x 13.8"
    - Packed in shipping box: 1000 x 300 x 350 mm (39.4" x 25.6" x 13.8"
    - Unpacked weight: 20 kg (44 lbs)
    - Packed weight: 24 kg (53 lbs)
- **On-Pad**
  - Width x Depth x Height
    - Desk mounted: 440 x 174 x 81 mm (17.4" x 6.9" x 3.2"
    - Rack mounted: 465 x 272 x 190 mm (18.4" x 10.8" x 7.5"
    - Packed in shipping box: 620 x 300 x 350 mm (24.4" x 12.2" x 13.8"
    - Unpacked weight: 6.5 kg (14.5 lbs)
    - Packed weight: 8.5 kg (18.7 lbs)
- **On-SB**
  - Width x Depth x Height
    - Desk mounted / stand-alone unit: 439 x 174 x 81 mm (17.4" x 6.9" x 3.2"
    - Packed in shipping box: 500 x 272 x 190 mm (20.0" x 10.8" x 7.5"
    - Unpacked weight: 4.5 kg (9.9 lbs)
    - Packed weight: 5.7 kg (12.6 lbs)