

## User Manual



# XENYX

## Q1202USB/Q1002USB/Q802USB/Q502USB

Premium 12/10/8/5-Input 2-Bus Mixer with XENYX Mic Preamp and Compressor, British EQ and USB/Audio Interface

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## Thank you

Congratulations! In purchasing our XENYX Q1202USB/Q1002USB/Q802USB/Q502USB you have acquired a mixing console whose small size belies its incredible versatility and audio performance.

The XENYX Series represents a milestone in the development of mixing console technology. With the new XENYX microphone preamps including phantom power as an option, balanced line inputs and a powerful effects section, the mixing consoles in the XENYX Series are optimally equipped for live and studio applications. Owing to state-of-the-art circuitry, your XENYX console produces a warm analog sound that is unrivalled. With the addition of the latest digital technology, these best-in-class consoles combine the advantages of both analog and digital technology.

**EN Important Safety Instructions**

Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

**Caution**

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.

**Caution**

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

**Caution**

These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid

injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



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Trident Chambers, Wickhams Cay, P.O. Box 146, Road Town, Tortola, British Virgin Islands

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For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at [www.music-group.com/warranty](http://www.music-group.com/warranty).

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# 1. Introduction

## XENYX Mic Preamps



The microphone channels feature high-end XENYX Mic Preamps that compare well with costly outboard preamps in terms of sound quality and dynamics and boast the following features:

- 130 dB dynamic range for an incredible amount of headroom
- A bandwidth ranging from below 10 Hz to over 200 kHz for crystal-clear reproduction of even the finest nuances
- The extremely low-noise and distortion-free circuitry guarantees absolutely natural and transparent signal reproduction
- They are perfectly matched to every conceivable microphone with up to 60 dB gain and +48 volt phantom power supply
- They enable you to use the greatly extended dynamic range of your 24-bit/192-kHz HD recorder to the fullest, thereby maintaining optimal audio quality

### “British EQ”

The equalizers used for the XENYX Series are based on the legendary circuitry of top-notch consoles made in Britain, which are renowned throughout the world for their incredibly warm and musical sound character. Even with extreme gain settings these equalizers ensure outstanding audio properties.



### Caution!

- ◆ We should like to draw your attention to the fact that extreme volumes may damage your hearing and/or your headphones or loudspeakers. Turn the MAIN MIX control and PHONES control in the main section fully counter-clockwise before you switch on the unit. Always be careful to set appropriate volume levels.

### Important notes concerning installation

- ◆ The sound quality may diminish within the range of powerful broadcasting stations and high-frequency sources. Increase the distance between the transmitter and the device and use shielded cables for all connections.

## 1.1 General mixing console functions

A mixing console fulfils three main functions:

- **Signal processing:** Preamplification, level adjustment, mixing of effects, frequency equalization.
- **Signal distribution:** Summing of signals to the aux sends for effects processing and monitor mix, distribution to one or several recording tracks, power amp(s), control room and 2-track outputs.
- **Mix:** Setting the volume level, frequency distribution and positioning of the individual signals in the stereo field, level control of the total mix to match the recording devices/crossover/power amplifier(s). All other mixer functions can be included in this main function.

The interface of BEHRINGER mixing consoles is optimized for these tasks enabling you to easily keep track of the signal path.

## 1.2 Before you get started

### 1.2.1 Shipment

Your mixing console was carefully packed in the factory to guarantee safe transport. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage, which may have occurred during transit.

- ◆ If the unit is damaged, please do NOT return it to us, but notify your dealer and the shipping company immediately, otherwise claims for damage or replacement may not be granted.

### 1.2.2 Initial operation

Be sure that there is enough space around the unit for cooling purposes and to avoid over-heating please do not place your mixing console on high-temperature devices such as radiators or power amps. The console is connected to the mains via the supplied cable. The console meets the required safety standards. Blown fuses must only be replaced by fuses of the same type and rating.

- ◆ Never connect the XENYX to the power supply unit when the latter is connected to the mains! First connect the power supply unit to the console, then connect the power supply unit to the mains.
- ◆ Please note that all units must be properly grounded. For your own safety, you should never remove any ground connectors from electrical devices or power cables, or render them inoperative.
- ◆ Please ensure that only qualified people install and operate the mixing console. During installation and operation, the user must have sufficient electrical contact to earth, otherwise electrostatic discharges might affect the operation of the unit.

### 1.2.3 Online registration

Please register your new BEHRINGER equipment right after your purchase by visiting <http://behringer.com> and read the terms and conditions of our warranty carefully.

Should your BEHRINGER product malfunction, it is our intention to have it repaired as quickly as possible. To arrange for warranty service, please contact the BEHRINGER retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (<http://behringer.com>).

Registering your purchase and equipment with us helps us process your repair claims more quickly and efficiently.

Thank you for your cooperation!

## 2. Control Elements and Connectors

This chapter describes the various control elements of your mixing console. All controls, switches and connectors will be discussed in detail.

### 2.1 Mono channels

#### 2.1.1 Microphone and line inputs

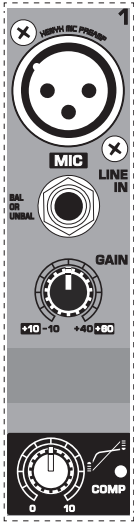


Fig. 2.1: Connectors and controls of mic/line inputs

#### MIC

Each mono input channel offers a balanced microphone input via the XLR connector and also features switchable +48/+15 V phantom power supply for condenser microphones. The XENYX preamps provide undistorted and noise-free gain as is typically known only from costly outboard preamps.

- ◆ Please mute your playback system before you activate the phantom power supply to prevent switch-on thumps being directed to your loudspeakers. Please also note the instructions in chapter 2.3.5 "Phantom power and LED displays".

#### LINE IN

Each mono input also features a balanced line input on a 1/4" connector. Unbalanced devices (mono jacks) can also be connected to these inputs.

- ◆ Please remember that you can only use either the microphone or the line input of a channel at any one time. You can never use both simultaneously!

#### GAIN

Use the GAIN control to adjust the input gain. This control should always be turned fully counterclockwise whenever you connect or disconnect a signal source to one of the inputs.

#### COMP

Use the COMP knob to adjust the amount of compression effect on the channel. Compression limits the dynamic range of the audio source, which can help vocals cut through a mix better, for example. Turn the COMP knob clockwise until the adjacent LED occasionally lights during speech/singing.

#### 2.1.2 Equalizer

All mono input channels include a 3-band equalizer, except for the Q502USB, which is equipped with a 2-band EQ. All bands provide boost or cut of up to 15 dB. In the central position, the equalizer is inactive.

The circuitry of the British EQs is based on the technology used in the best-known top-of-the-line consoles and providing a warm sound without any unwanted side effects. The result are extremely musical equalizers which, unlike simple equalizers, cause no side effects such as phase shifting or bandwidth limitation, even with extreme gain settings of  $\pm 15$  dB.

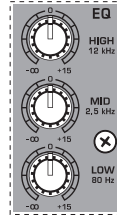


Fig. 2.2: The equalizer of the mono input channels

#### EQ

The upper (HI) and the lower band (LO) are shelving filters that increase or decrease all frequencies above or below their cut-off frequency. The cut-off frequencies of the upper and lower band are 12 kHz and 80 Hz respectively. The mid band (Q802/1002/1202USB) is configured as a peak filter with a center frequency of 2.5 kHz.

#### LOW CUT

In addition, the mono channels (Q1002USB and Q1202USB) are equipped with a steep LOW CUT filter at 80 Hz designed to eliminate unwanted low-frequency signal components.

#### 2.1.3 FX sends, panorama and level adjustment

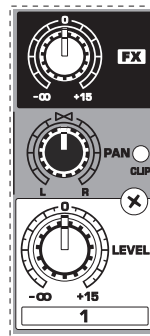


Fig. 2.3: The FX send/panorama/level controls

## FX (Q802/1002/1202USB only)

FX sends (or AUX sends) enable you to feed signals via a variable control from one or more channels and sum these signals to a bus. The bus appears at the console's FX send output and can be fed from there to an external effects device. The return from the effects unit is then brought back into the console on the aux return connectors (Q802USB) or normal channel inputs. Each FX send is mono and features up to +15 dB gain.

As the name suggests, the FX sends of the XENYX mixing consoles are intended to drive effects devices (reverb, delay, etc) and are therefore configured post-fader. This means that the mix between dry signal and effect remains at the level determined by the channel's aux send, irrespective of the channel fader setting. If this were not the case, the effects signal of the channel would remain audible even when the level knob is lowered to  $-\infty$ .

## PAN

The **PAN** control determines the position of the channel signal within the stereo image. This control features a constant-power characteristic, which means the signal is always maintained at a constant level, irrespective of position in the stereo panorama.

## LEVEL

The **LEVEL** control determines the level of the channel signal in the main mix.

## CLIP

The **CLIP** LED's of the mono channels illuminate when the input signal is driven too high, which could cause distortion. If this happens, use the GAIN control to reduce the preamp level until the LED does not light anymore.

## 2.2 Stereo channels

### 2.2.1 Stereo line inputs

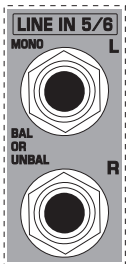


Fig. 2.4: Stereo line inputs

## LINE IN

Each stereo channel has two balanced line level inputs on 1/4" jacks for left and right channels. If only the jack marked "L" (left) is used, the channel operates in mono. The stereo channels are designed to handle typical line level signals.

Both inputs will also accept unbalanced jacks.

### 2.2.2 Equalizer stereo channels (Q802USB)

The XENYX 802 features a stereo 3-band EQ in each stereo channel. The filter characteristics and cut-off frequencies are the same as those in the mono channels.

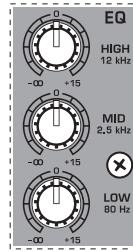


Fig. 2.5: The equalizer of the stereo input channels

A stereo EQ is highly preferable to two mono equalizers. when working on a stereo signal, as two separate EQ's will usually produce an unwanted discrepancy between the left and right channels.

### 2.2.3 FX sends, balance and level adjustment

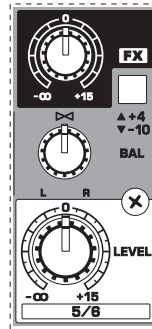


Fig. 2.6: The FX send/balance/level controls

## FX

The FX sends of the stereo channels function similar to those of the mono channels. However, since the FX send buses are both mono, a mono sum is first taken from the stereo input before it is sent to the FX bus. The Q502USB is not equipped with FX sends.

## BAL

The **BAL**(ANCE) control determines the levels of left and right input signals relative to each other before both signals are then routed to the main stereo mix bus. If a channel is operated in mono via the left line input, this control has the same function as the PAN control used in the mono channels.

## LEVEL

The LEVEL control determines the volume of the channel being sent to the main mix.

## +4/-10

The stereo inputs of the XENYX Q1002USB and Q1202USB have an input sensitivity switch which selects between +4 dBu and -10 dBV. At -10 dBV (home-recording level), the input is more sensitive (requires less level to drive it) than at +4 dBu (studio level).

## 2.3 Connector panel and main section

### 2.3.1 Send/return effects path

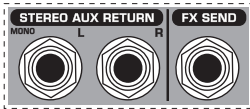


Fig. 2.7: FX send/return connectors

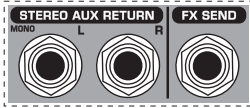


Fig. 2.8: FX send/return controls

### STEREO AUX RETURN

Q802USB only: the **STEREO AUX RETURN** connectors are used to bring the output of the external effects device (whose input is derived from the aux sends) back into the console. You can instead use these connectors as additional inputs, but any effects device will then have to be brought back into the console via a normal stereo channel. This does, however, give you the ability to use the channel EQ on the effects return signal if you wish.

- ◆ When using a stereo channel as effects return path, the FX control of the relevant channel should generally be turned fully down to avoid undesirable feedback.

If only the left connector is used, the AUX RETURN automatically operates in mono. Use the AUX RETURN control to determine how much of the effects signal is sent to the main mix.

### FX SEND

The **FX SEND** output (does not apply for Q502USB) should be connected to the input of an external effects unit. The post-fader FX signal you created using the input channel FX controls is sent to the effects unit via the **FX SEND** output. Use the **FX SEND** control of the main section to adjust the overall send level (Q1002USB and Q1202USB only).

### 2.3.2 Monitor and main mix

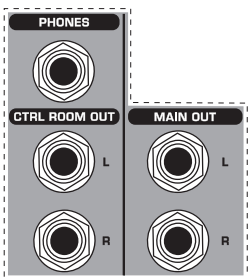


Fig. 2.9: Monitor/main mix connectors

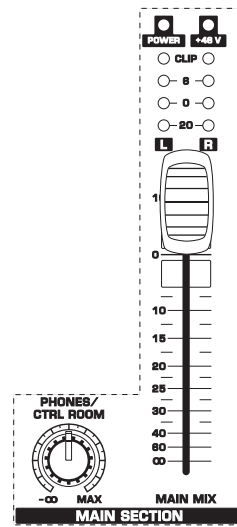


Fig. 2.10: Monitor control and main mix fader

### PHONES/CONTROL ROOM

The stereo **PHONES** jack (at the top of the connector panel) is where you connect headphones. The unbalanced **CTRL ROOM OUT** jacks carry the summed effects and main mix signals. The PHONES/CONTROL ROOM control adjusts the level of both headphones and main monitor outputs. The Q502USB is not equipped with control room outputs.

### MAIN MIX

The **MAIN OUT** connectors are unbalanced mono jacks. The main mix signal appears here at a level of 0 dBu. The **MAIN MIX** fader adjusts the volume of these outputs. The XENYX Q802USB and Q502USB mixing consoles feature a rotary control for this purpose.

### 2.3.3 2-Track connectors

#### 2-TRACK INPUT

The **2-TRACK INPUT**s are used to bring an external signal source (e.g. CD player, tape deck, etc.) into the console. They can also be used as a standard stereo line input, so the output of a second XENYX or BEHRINGER ULTRALINK PRO MX882 can be connected.

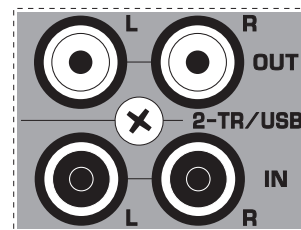


Fig. 2.11: 2-TRACK input/output

Alternatively the line or tape output of a hi-fi amplifier with source selection switch could also be hooked up here, allowing you to easily listen to additional sources.

#### 2-TRACK OUTPUT

These connectors are wired in parallel with the MAIN OUT and carry the main mix signal (unbalanced). Connect the 2-TRACK OUTPUT to the inputs of your recording device. The output level is adjusted via the high-precision MAIN MIX fader or rotary control (Q802USB and Q502USB).

### 2.3.4 Signal assignment



Fig. 2.12: Assignment switches of the main section

#### USB/2-TR TO MAIN MIX

When the **USB/2-TR TO MAIN** switch is depressed, the USB/2-Track input is assigned to the main mix, providing an additional input for tape machines, computers, MIDI instruments or other signal sources that do not require any processing. The 2-Track Out/USB recording signal are muted to avoid feedback.

#### USB/2-TR TO PHONES/CTRL RM (Q502: USB/2-TR TO PHONES)

Press the **USB/2-TR TO PHONES/CTRL RM** switch if you want to monitor the 2-Track or USB input via the CTRL ROOM OUT. This provides an easy way to monitor signals coming back from tape to ensure that they are recording correctly.

#### FX TO CTRL ROOM

If you want to monitor only the FX send signal in your headphones or monitor speaker(s), press the FX TO CTRL switch. This mutes the main mix signal while routing the FX SEND output to the monitor(s). The XENYX Q802USB and Q502USB do not feature this switch.

### 2.3.5 Phantom power and LED displays

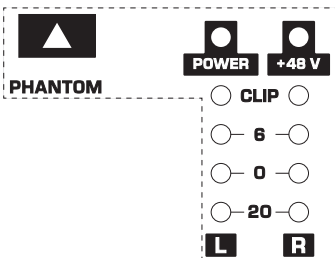


Fig. 2.13: Phantom power and control LEDs

#### +48 V

The red **+48 V** LED lights up when phantom power is on. The **PHANTOM** switch activates the phantom power supply on the XLR connectors of all mono channels.

- ◆ Please do not connect microphones to the mixer (or the stagebox/wallbox) as long as the phantom power supply is switched on. Connect the microphones **before** you switch on the power supply. In addition, the monitor/PA loudspeakers should be muted before you activate the phantom power supply. After switching on, wait approx. one minute in order to allow system stabilization.

### POWER

The **POWER** LED indicates that the console is powered on.

#### Level indicator

The high-precision 4-segment display accurately displays the relevant signal level.

**LEVEL SETTING:** To correctly set the gains of the channels, first set the LEVEL controls of the input channels to their center positions (0 dB). Then use the GAIN controls to increase the input amplification until signal peaks show 0 dB on the level meter.

When recording to digital recorders, the recorder's peak meter should not go into overload. While analog recorders can be overloaded to some extent, creating only a certain amount of distortion (which is common and often desirable), digital recorders distort quickly when overloaded. In addition, digital distortion is not only undesirable, but also renders your recording completely useless.

- ◆ The peak meters of your XENYX display the level virtually independent of frequency. A recording level of 0 dB is recommended for all signal types.

### 2.4 USB Connector

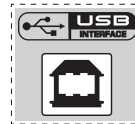


Fig 2.14: USB connector"]

#### USB CONNECTOR

Connect your mixer to a computer using a standard USB cable. This enables a stereo signal to be sent to and from your mixer and computer. The signal sent from the mixer to the computer is the same as the main bus. The audio returning from the computer into the mixer appears directly in the main and/or control room bus (depending on USB/2TR to MAIN and PHONES/CTRL RM buttons).

NOTE: The mixer cannot be bus-powered via USB! Always use the included power adaptor to supply power to the mixer.

## 3. Installation

### 3.1 Mains connection

#### AC POWER IN

Connect the power supply to the 3-pin mains connector on the rear of the console. Use the AC adapter supplied to connect the console to the mains. The adapter complies with all applicable safety standards.

- ◆ Please use only the power supply unit provided with the console.
- ◆ Never connect the XENYX to the power supply unit while the latter is connected to the mains! First connect the console to the power supply unit, then connect the power supply unit to the mains.
- ◆ Please note that both the power supply unit and the mixing console heat up considerably during operation. This is completely normal.



### 3.2 Audio connections

You will need a large number of cables for different applications. The illustrations below show how the connectors should be wired. Be sure to use only high-grade cables.

Please use commercial RCA cables to connect the 2-track inputs and outputs.

You can, of course, also connect unbalanced devices to the balanced inputs/outputs. To do this, use either mono plugs or stereo plugs with the ring and sleeve bridged (pins 1 and 3 in the case of XLR connectors).

**Caution! Never use unbalanced XLR connectors (PIN 1 and 3 connected) on the MIC input connectors when using the phantom power supply.**

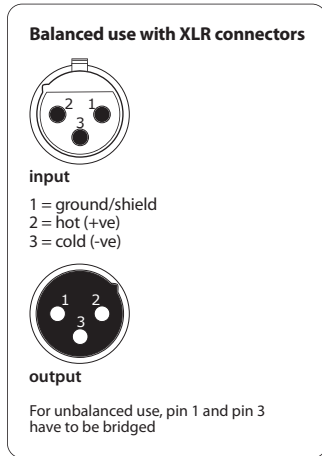


Fig. 3.1: XLR connections

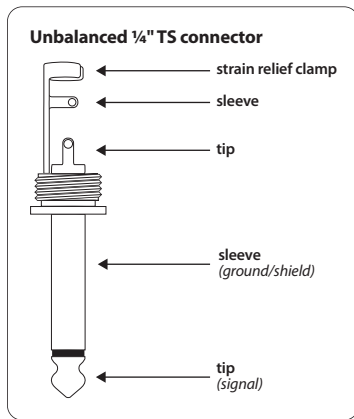


Fig. 3.2: 1/4" mono plug

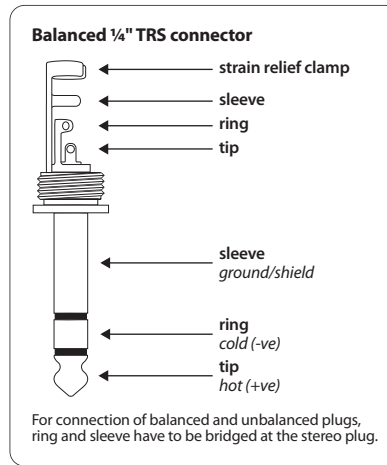


Fig. 3.3: 1/4" stereo plug

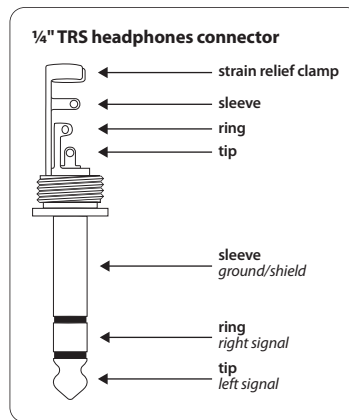


Fig. 3.4: Stereo plug for headphones connection

## 4. Specifications

	Q1202USB	Q1002USB	Q802USB	Q502USB
<b>Mono Inputs</b>				
<b>Microphone Inputs</b>				
Type	XLR connector, balanced, discrete input circuit			
<b>Mic E.I.N. (20 Hz - 20 kHz)</b>				
@ 0 Ω Source resistance	-134 dB / 136 dB A-weighted			
@ 50 Ω Source resistance	-131 dB / 133 dB A-weighted			
@ 150 Ω Source resistance	-129 dB / 131 dB A-weighted			
Frequency Response	<10 Hz - 150 kHz (-1 dB)			
	<10 Hz - 200 kHz (-3 dB)			
Max. input level	+12 dBu @ +10 dB Gain			
Impedance	1.9 kΩ balanced	1.9 kΩ balanced	1.9 kΩ balanced	1.4 kΩ balanced
Signal-to-noise ratio	110 dB A-weighted (0 dBu In @ +22 dB Gain)			
Distortion (THD+N)	0.005% / 0.004% A-weighted			
<b>Line Inputs</b>				
Type	¼" TRS connector, balanced			
Impedance	20 kΩ balanced, 10 kΩ unbalanced			
Gain range	-10 dB to +40 dB			
Max. input level	+22 dBu @ 0 dB Gain			
<b>Stereo Inputs</b>				
Type	2 x ¼" TRS connectors, balanced			
Impedance	20 kΩ balanced, 10 kΩ unbalanced			
Gain range	-20 dB to +20 dB			
Max. input level	+22 dBu			
<b>CD/Tape Inputs</b>				
Type	RCA connector			
Impedance	18 kΩ			
Max. input level	+22 dBu			
<b>Equalizer</b>				
Low	80 Hz / ±15 dB			
Mid	2.5 kHz / ±15 dB			
High	12 kHz / ±15 dB			
<b>Aux Sends</b>				
Type	¼" TRS connector, balanced			
Impedance	120 Ω			
Max. output level	+22 dBu			
<b>Aux Returns</b>				
Type	¼" TRS connector, balanced			
Impedance	20 kΩ balanced / 10 kΩ unbalanced			
Max. input level	+22 dBu			
<b>Main Outputs</b>				
Type	¼" TRS connector, balanced			
Impedance	120 Ω balanced			
Max. output level	+22 dBu			
<b>Control Room Outputs</b>				
Type	¼" TRS connector, balanced			
Impedance	approx. 120 Ω			
Max. output level	+22 dBu			

	Q1202USB	Q1002USB	Q802USB	Q502USB
<b>Phones Output</b>				
Type	¼" TRS connector, unbalanced			
Max. output level	+21 dBu / 150 Ω (+25 dBm)			
<b>CD/Tape Outputs</b>				
Type	RCA connector, unbalanced			
Impedance	1 kΩ			
Max. output level	+22 dBu			
<b>Main Mix System Data (Noise)</b>				
Main mix @ -∞, channel fader @ -∞	-106 dB / -109 dB A-weighted			
Main mix @ 0 dB, channel fader @ -∞	-93 dB / -96 dB A-weighted	-93 dB / -96 dB A-weighted	-92 dB / -95 dB A-weighted	-95 dB / -98 dB A-weighted
Main mix @ 0 dB, channel fader @ 0 dB	-84 dB / -87 dB A-weighted			
<b>Power Supply</b>				
Power consumption	20 W	13 W	13 W	13 W
<b>USA/Canada</b>				
120 V~, 60 Hz				
Adapter	MXUL5	MXUL3	MXUL3	MXUL3
<b>Europe/U.K./Australia</b>				
230 V~, 50 Hz				
Adapter	MXEU5	MXEU3	MXEU3	MXEU3
<b>China</b>				
220 V~, 50 Hz				
Adapter	MXCCC5	MXCCC3	MXCCC3	MXCCC3
<b>Korea</b>				
220 V~, 60 Hz				
Adapter	MXKR5	MXKR3	MXKR3	MXKR3
<b>Japan</b>				
100 V~, 50/60 Hz				
Adapter	MXJP5	MXJP3	MXJP3	MXJP3
<b>USB</b>				
Connector	Type B			
Sample Rate	48 kHz			
<b>Physical/Weight</b>				
Dimensions (W x D x H)	250 x 248 x 50 mm (9.8 x 9.8 x 2.0")	195 x 248 x 50 mm (7.7 x 9.8 x 2.0")	195 x 248 x 50 mm (7.7 x 9.8 x 2.0")	138 x 184 x 46 mm (5.4 x 7.2 x 1.8")
Weight (Net)	1.5 kg (3.3 lbs)	1.1 kg (2.4 lbs)	1.1 kg (2.4 lbs)	0.6 kg (1.3 lbs)