

7. Specifications

QX2442USB

Microphone Inputs

XENYX Mic preamps	10
Type	XLR connector, balanced, discrete input circuit

Mic E.I.N. (20 Hz - 20 kHz)

@ 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)
Gain range	+10 dB to +60 dB
Max. input level	+12 dBu @ +10 dB gain
Impedance	2 k Ω balanced
Signal-to-noise ratio	108 dB / 110 dB A-weighted (0 dBu In @ +22 dB gain)
Distortion (THD+N)	0.005% / 0.004% A-weighted
Phantom power	Switchable, +48 V

Line Input

Type	1/4" TRS connector, balanced
Impedance	20 k Ω balanced, 10 k Ω unbalanced
Gain range	-10 dB to +40 dB
Max. input level	30 dBu

Frequency Response (Mic In → Main Out)

<10 Hz - 160 kHz	± 3 dB
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Stereo Inputs

Type	4 x 1/4" TRS connector, balanced
Impedance	20 k Ω balanced, 10 k Ω unbalanced
Gain range	-20 dB to +20 dB
Max. input level	+22 dBu

2-Track In

Type	RCA connector
Impedance	10 k Ω
Max. input level	+22 dBu

Equalizer 3-Band Semi-Parametric

Low	80 Hz / ± 15 dB
Mid	Variable 100 Hz - 8 kHz / ± 15 dB
High	12 kHz / ± 15 dB

Equalizer 4-Band Fixed

Low	80 Hz / ± 15 dB
Low mid	500 Hz / ± 15 dB
High mid	3 kHz / ± 15 dB
High	12 kHz / ± 15 dB

Channel Inserts

Type	1/4" TRS connector, unbalanced
Max. input level	+22 dBu

AUX Sends

Type	4 x 1/4" TRS connector, balanced
Impedance	120 Ω
Max. output level	+22 dBu

AUX Returns

Type	4 x 1/4" TRS connector, balanced
Impedance	20 k Ω balanced, 10 k Ω unbalanced
Max. input level	+22 dBu

Main Outputs

Type	XLR and 1/4" connectors, balanced
Impedance	240 Ω balanced, 120 Ω unbalanced
Max. output level	+28 dBu

Control Room Output

Type	1/4" TRS connector, balanced
Impedance	120 Ω
Max. output level	+22 dBu

Phones Output

Type	1/4" TRS connector, unbalanced
Impedance	25 Ω
Max. output level	+21 dBu / 150 Ω (+25 dBm)

2-Track Out

Type	RCA connector
Impedance	1 k Ω
Max. output level	+22 dBu

DSP

Type	KLARK TEKNIK
Converter	24-bit Sigma-Delta
	64/128-times oversampling
Sampling rate	40 kHz

Wireless Input

USB dongle	Accepts signals from 2 independent Behringer ULM mics
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Main Mix System Data (Noise)

Main mix @ $-\infty$, channel fader @ $-\infty$	-102 dB / -105 dB A-weighted
Main mix @ 0 dB, channel fader @ $-\infty$	-85 dB / -88 dB A-weighted
Main mix @ 0 dB, channel fader @ 0 dB	-77 dB / -79 dB A-weighted

Power Supply

Mains voltage	100 – 240 V~, 50/60 Hz
Power consumption	50 W
Fuse (100 - 240 V~, 50/60 Hz)	T 1.6 A H 250 V
Mains connector	Standard IEC receptacle

USB

Connector	Type B
Audio	Stereo in/out
Converter	16-bit
Sample rate	48 kHz

Physical/Weight

Dimensions (W x D x H)	445 x 440 x 140 mm (17.5 x 17.3 x 5.5")
Weight	5.7 kg (12.6 lbs)

QX2222USB**Microphone Inputs**

XENYX Mic preamps	8
Type	XLR connector, balanced, discrete input circuit

Mic E.I.N. (20 Hz - 20 kHz)

@ 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)
Gain range	+10 dB to +60 dB
Max. input level	+12 dBu @ +10 dB gain
Impedance	2 k Ω balanced
Signal-to-noise ratio	106 dB / 108 dB A-weighted (0 dBu In @ +22 dB gain)
Distortion (THD+N)	0.005% / 0.004% A-weighted
Phantom power	Switchable, +48 V

Line Input

Type	¼" TRS connector, balanced
Impedance	20 k Ω balanced, 10 k Ω unbalanced
Gain range	-10 dB to +40 dB
Max. input level	30 dBu

Frequency Response (Mic In → Main Out)

<10 Hz - 160 kHz	± 3 dB
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Stereo Inputs

Type	4 x ¼" TRS connector, balanced
Impedance	20 k Ω balanced, 10 k Ω unbalanced
Gain range	-20 dB to +20 dB
Max. input level	+22 dBu

2-Track In

Type	RCA connector
Impedance	10 k Ω
Max. input level	+22 dBu

Equalizer 3-band semi-parametric

Low	80 Hz / ± 15 dB
Mid	Variable 100 Hz - 8 kHz / ± 15 dB
High	12 kHz / ± 15 dB

Equalizer 4-Band Fixed

Low	80 Hz / ± 15 dB
Low mid	500 Hz / ± 15 dB
High mid	3 kHz / ± 15 dB
High	12 kHz / ± 15 dB

Channel Inserts

Type	$\frac{1}{4}$ " TRS connector, unbalanced
Max. input level	+22 dBu

AUX Sends

Type	3 x $\frac{1}{4}$ " TRS connector, balanced
Impedance	120 Ω
Max. output level	+22 dBu

AUX Returns

Type	3 x $\frac{1}{4}$ " TRS connector, balanced
Impedance	20 k Ω balanced, 10 k Ω unbalanced
Max. input level	+22 dBu

Main Outputs

Type	XLR and $\frac{1}{4}$ " connectors, balanced
Impedance	240 Ω balanced, 120 Ω unbalanced
Max. output level	+28 dBu

Control Room Output

Type	$\frac{1}{4}$ " TRS connector, balanced
Impedance	120 Ω
Max. output level	+22 dBu

Phones Output

Type	$\frac{1}{4}$ " TRS connector, unbalanced
Impedance	25 Ω
Max. output level	+21 dBu / 150 Ω (+25 dBm)

2-Track Out

Type	RCA connector
Impedance	1 k Ω
Max. output level	+22 dBu

DSP

Type	KLARK TEKNIK
Converter	24-bit Sigma-Delta
	64/128-times oversampling
Sampling rate	40 kHz

Wireless Input

USB dongle	Accepts signals from 2 independent Behringer ULM mics
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Main Mix System Data (Noise)

Main mix @ $-\infty$, channel fader @ $-\infty$	-100 dB / -103 dB A-weighted
Main mix @ 0 dB, channel fader @ $-\infty$	-85 dB / -88 dB A-weighted
Main mix @ 0 dB, channel fader @ 0 dB	-78 dB / -80 dB A-weighted

Power Supply

Mains voltage	100 – 240 V~, 50/60 Hz
Power consumption	50 W
Fuse (100 - 240 V~, 50/60 Hz)	T 1.6 A H 250 V
Mains connector	Standard IEC receptacle

USB

Connector	Type B
Audio	Stereo in/out
Converter	16-bit
Sample rate	48 kHz

Physical/Weight

Dimensions (W x D x H)	430 x 370 x 90 mm (16.9 x 14.6 x 3.5")
Weight	4.8 kg (10.6 lbs)