



XD

User Manual

XILICA

Important Safety Information

1. READ THESE INSTRUCTIONS

All the safety and operating instructions should be read before the product is operated.

2. KEEP THESE INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

3. HEED ALL WARNINGS

All warnings on the product and in the operating instructions should be adhered to.

4. FOLLOW ALL INSTRUCTIONS

All operating and use of instructions should be followed.

5. DO NOT USE THIS APPARATUS IN WATER.

Do not use the product near water. For example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

6. CLEAN ONLY WITH DRY CLOTH.

Unplug the unit from the wall outlet before cleaning.

7. DO NOT BLOCK ANY VENTILATION OPENINGS

Slots and openings in the cabinet back or bottom are provided for ventilation, to ensure reliable operation of the limit and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or similar surface. This product should never be placed near or over a radiator or heat source. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

8. DO NOT INSTALL NEAR ANY HEAT SOURCES

This product should be situated away from heat sources such as radiators, stoves or other products (including amplifiers) that produces 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 prongs 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. ONLY USE ATTACHMENTS/ACCESSORIES SPECIFIED BY THE MANUFACTURER.

12. USE ONLY WITH CART, STAND, TRIPOD, BRACKET, OR TABLE SPECIFIED BY THE MANUFACTURER, OR SOLD WITH THE APPARATUS. WHEN A CART IS USED, USE WITH CAUTION WHEN MOVING THE CART/APPARATUS TO AVOID INJURY FROM TIP-OVER.

Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to someone, and serious damage to the appliance. A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

13. UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.

For added protection for this unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power surges.

14. REFER ALL SERVICING TO QUALIFIED PERSONNEL. SERVICING IS REQUIRED WHEN THE APPARATUS HAS BEEN DAMAGED IN ANY WAY. SUCH AS, WHEN THE 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. WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

16. APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

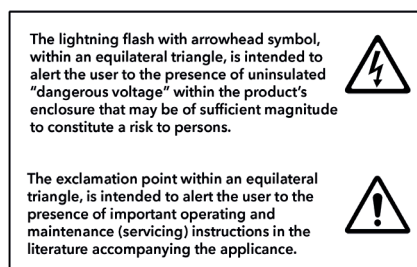
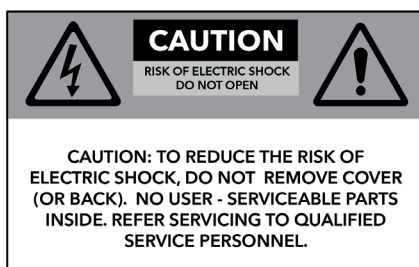
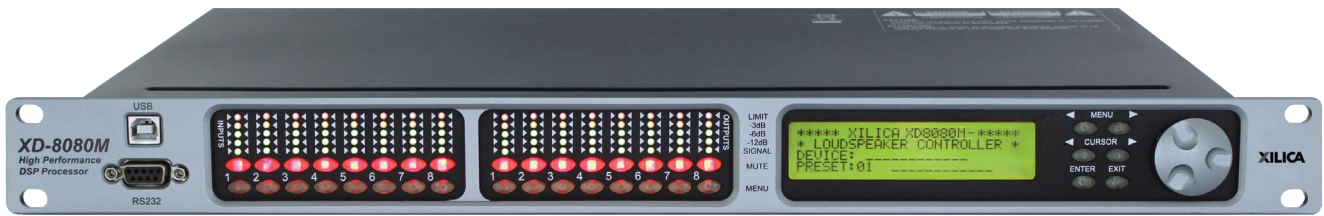


Table of Contents

What's in the box	4
Hardware descriptions and functions	5-6
XConsole PC software	7
Power On device	8
Front panel	
a. Channel menu	9
b. System menu	14
Quick reference	20



What's in the Box

- XD series hardware device
- Hard copy of the Quick Start Guide
- USB drive with XConsole software, User manual and Spec Sheet
- Detachable IEC 90-240 VAC (50-60Hz) power cable
- Detachable 3.5mm Phoenix/Euro type terminal block connectors

What you need to Provide

- PC computer with a processor 1GHz or higher
- Windows 7 or higher
- 500 MB of free space
- 1 GB graphics card
- 4 GB of RAM
- Network interface (Router/switch/hub)
A router is used for IP assignment and easy connectivity to computer and control devices.
- Ethernet cable (Cat5/6), RS232 or USB cable

Getting Help

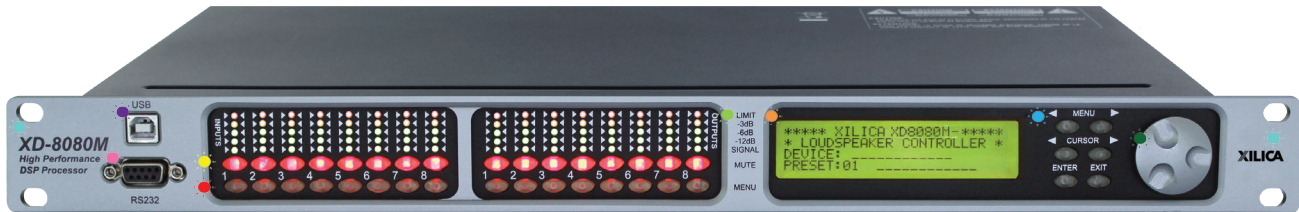
Additional Help Files and video tutorials are available at our website: www.xilica.com



For further technical support, please email: support@xilica.com and we'll connect you with a solutions engineer. Alternatively, you can call our worldwide offices for immediate assistance:


North America & Rest of World: +1 905-770-0055


Europe: +31 29940-1100


China & Hong Kong SAR: +852 2604-9382





- 
Model name
- 
USB Port


A standard Type B USB connector. The device driver must be installed prior to usage.
- 
RS232 Port


A standard female DB9 socket. A straight through cable is required for PC connection.
- 
Mute buttons

Mute or unmute input and output channels. When an input channel is muted, a red LED will come on for indication.
- 
Channel menu buttons

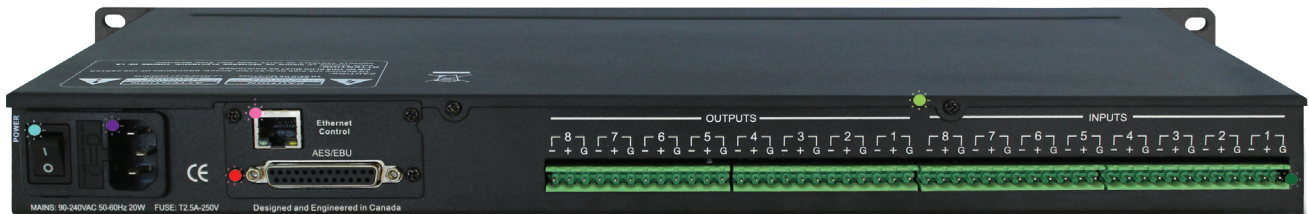
Selects the corresponding channel for the LCD menu display and is acknowledged by a green LED. The last modified menu will be displayed on the LCD. Linking multiple channels is accomplished by pressing and holding the first channel key, then pushing the other desired channels. This eases programming for the same parameters across multiple channels. Multiple inputs can be linked together and multiple outputs can be linked together. Input and outputs are linked separately.
- 
Peak level LED

Indicates the current peak level of the signal: -12dB, -6dB, -3dB, over/limit. The input Limit LED references to the device's maximum headroom. The output Limit LED references to the threshold of the output limiter.
- 
LCD Display

The LCD display shows all of the necessary information to control the settings of the unit from the front panel.
- 
Menu Buttons

There are six menu buttons: **<<Menu** (Menu down), **Menu>>** (Menu up), **<<Cursor** (Cursor down), **Cursor>>** (Cursor Up), **Enter** and **Exit**.
<<Menu: Go to previous menu screen
Menu>>: Go to next menu screen
<<Cursor: Go to previous cursor in the menu screen
Cursor>>: Go to next cursor in menu screen
Enter: Enter enters the **system menu** from the main menu and is used in the system menu to proceed with selected actions
Exit: Exit to **main menu**
- 
Jog wheel

Scroll through menu options using the jog wheel. The wheel has travel velocity sensing which eases large incremental data modifications. For modifying delay and frequency (1 Hz resolution), pressing the Enter key simultaneously will increment/decrement the data value by 100X.



Power On/Off switch



Power input connector

Insert the supplied IEC plug connector into the socket. Connect the AC end of the cord into a 90-240 VAC 50-60Hz power source.



Ethernet control

A standard RJ45 (Ethernet) connector for Ethernet control. The device should be connected to a router/switch/hub via a straight through Cat5 cable.



AES/EBU connector

Digital I/O capability of 4x8 or 8x8 AES/EBU channels depending on XD model, on a separate connector.



XD 8080 Analogue inputs and outputs

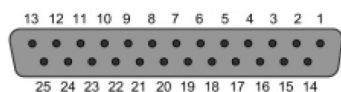
Euro/Phoenix style terminal block output connections utilizing 3.5mm terminal block connectors (included). Use balanced shielded audio cabling. XD 8080 model has 8x8 inputs/outputs.



XD 4080 Analogue inputs and outputs

Separate 3-pin connectors are provided for each audio input and output. The device's output stage employs the balanced impedance topology. All I/O connectors have pin 1 as ground (shield), pin 2 as + and pin 3 as -.

AES/EBU inputs and outputs (Standard DB25 female connector)



Pin Description	Revision A	Revision B (Yamaha standard)
Input 1+	14	1
Input 1-	2	14
Input 2+	3	2
Input 2-	16	15
Input 3+		3
Input 3-		16
Input 4+		4
Input 4-		17
Output 1+		5
Output 1-	8	18
Output 2+	9	6
Output 2-	22	19
Output 3+	23	7
Output 3-	11	20
Output 4+	12	8
Output 4-	25	21
Ground	1 4 7 10 13 15 18 21 24	10 11 12 13 22 23 24 25
No connect		9

Revision A or B can be found when powering on the unit. It is appended to version number.

XConsole PC software

The XD series is shipped with Xilica's XConsole software. XConsole gives the user an option to control the unit from a remote PC. The GUI application makes it much easier to control and monitor the device from one screen. Programs can be recalled and stored to and from a PC's hard drive, thus expanding the storage to become virtually limitless.

XConsole can be connected to the XD series via RS232, USB or Ethernet. USB requires the installation of an additional driver. The user is given an option to install this driver during the installation of XConsole. If the user did not install the driver at the time of installing XConsole, they may run the USB driver installer from the provided software.

Power On Devices

1. Upon powering up the unit, the following initialization screen will display on the LCD:

```
***** XILICA XD-4080 *****  
* LOUDSPEAKER CONTROLLER *  
XD-4080 v9.00B  
-----INITIALIZING -----
```

The initialization process takes several seconds. The unit will start up and display the device model and firmware version.

2. After the initialization process is complete, the XD will display the following:

```
***** XILICA XD-4080 *****  
* LOUDSPEAKER CONTROLLER *  
DEVICE: _____  
PRESET: 01 _____
```

The screen displays the current program number and program name assigned to the unit. If the program number ends with *, it means that no program is assigned, the last data before previous power down is recalled instead.

3. The XD series processor is now ready to operate.

Operating Channel menus

Channel linking

If the user presses one of the input or output **Channel menu** buttons, holds it down and presses any other **Channel menu** button(s) in the input/output group, then the channels are linked together.

The green menu LEDs for the linked channels are lit.

Any modification of the data for the selected linked channel will be applied to the linked channels as well.

To cancel linking, just press any other **Channel menu** key or the **Exit** key after releasing the held key.

Input microphone gain

(Only available for XD 4080M and XD 8080M models)

IN_1: _____ MENU: Mic Gain
LEVEL: 0dB

LEVEL

The level (or gain) ranges from 0dB to +45dB in 3dB steps.

This level will only have an affect on the input channel when Mic input is selected from the system menu. Please refer to Page 14.

Input/output signal

IN_1: _____ MENU: Signal
LEVEL: 0.00dB
POL: +
DELAY: 0 (000.000ms)

LEVEL

The level (or gain) ranges from -40dB to +15dB in 0.25dB steps.

POL

The polarity (or phase) can be normal (+) or inverted (-)

DELAY

The maximum delay permitted is 62400 samples. Each sample is approximately 10us (1/96k). The equivalent delay time is displayed to the right in parenthesis. The delay time unit can be set to ms, ft or m in the **System menu**. Please refer to Page 14.

Input/output equalizer

IN_1: _____ MENU: EQ
 EQ#:1 FRQ:1000Hz
 BYP: Off BW: 0.33 Q=4.36
 TYP: PEQ LVL:0.00dB

IN_1: _____ MENU: EQ
 EQ#:1 FRQ:1000Hz
 BYP: Off DEG: 15.5 deg
 TYP: PEQ LVL:0.00dB

EQ#

Each input channel has 8 bands of equalization. This control selects one of the 8 available bands.

BYP

This control will un-bypass (Off) or Bypass (On) the currently selected band.

TYP

The five types of EQ that can be used are: parametric (PEQ), low shelf (LO-SHF), high shelf (HI-SHF), first degree all-pass (AP-1), and second degree all-pass (AP-2).

FRQ

The EQ centre frequency ranges from 20Hz to 30kHz in either 1Hz steps or 1/36 octave steps. The frequency steps can be selected in the **System Menu**. Please refer to Page 14.

BW

The EQ bandwidth ranges from 0.02 to 3.61 octaves in steps of 0.01 octave. The equivalent Q value is automatically shown besides the octave value. For first degree all-pass (AP-1) filter, the bandwidth will set the phase shift at the centre frequency. The phase shift is gradually changed from 180 degrees above the centre frequency to the specified value.

LVL

The EQ level (or gain) ranges from -30dB to +15dB in 0.25dB steps.

Input graphic equalizer

IN_1: _____ MENU: GEQ
 GEQ#:1 (f=20Hz)
 LEVEL: +0.25dB
 BYPASS: Off

GEQ#

The graphic equalizer has 31 bands of equalization from 20Hz to 20kHz. This control selects one of the 31 available bands. The frequency corresponding to each band is also shown.

LEVEL

The GEQ level (or gain) ranges from -30dB to +15dB in 0.25dB steps.

BYPASS

This control will un-bypass (Off) or bypass (On) the entire GEQ for this channel.

Input/output IIR crossover

IN_1: _____	MENU: XOvr IIR
TYPL: Off	TYPH: Off
FRQL: 1000Hz	FRQH: 1000Hz
SLPL: 24dB	SLPH: 24dB

TYPL

The three available filter types for the low frequency crossover point (high pass) are: Butterworth, Linkwitz-Riley or Bessel.

FRQL

The filter cut-off frequency for the low frequency crossover point (high pass) ranges from 20Hz to 30kHz in either 1Hz steps or 1/36 octave steps. The frequency steps can be selected in the **System menu**. Please refer to page 14.

SLPL

The filter slope for low frequency crossover point (high pass) ranges from 6 to 48dB/octave. If the selected filter type is Linkwitz-Riley, the available slopes are 12, 24, 36 or 48dB/octave only.

TYPH


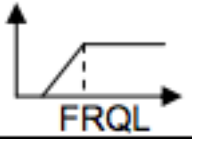
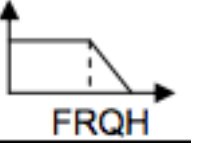

The three available filter types for the high frequency crossover point (low pass) are: Butterworth, Linkwitz-Riley or Bessel.

FRQH

The filter cut-off frequency for the high frequency crossover point (low pass) ranges from 20Hz to 30kHz in either 1Hz steps or 1/36 octave steps. The frequency steps can be selected in either the **System menu**. Please refer to page 14.

SLPH

The filter slope for high frequency crossover point (low pass) ranges from 6 to 48dB/octave. If the selected filter type is Linkwitz-Riley, the available slopes are 12, 24, 36 or 48dB/octave only.

Filter configuration	Low crossover point	High crossover point	
None	FTRL Off	FTRH Off	
Highpass	FTRL not Off	FTRH Off	
Lowpass	FTRL Off	FTRH not Off	
Bandpass	FTRL not Off	FTRH not Off	

Input compressor

IN_1: _____ MENU: Comp
 THRESH: 0.0dBu
 ATTACK: 10ms RATIO 1:40
 RELEASE: 8x (80ms)

THRESH

The compressor threshold ranges from -20dBu to +20dBu in 0.5dB steps.

ATTACK

The compressor attack time ranges from 0.3ms to 1ms in 0.1ms steps, then ranges from 1ms to 100ms in 1ms steps.

RELEASE

The compressor release time can be set at 2X, 4X, 8X, 16X, or 32X the attack time.

RATIO

The compressor ratio is the slope in which the signal is compressed. It ranges from 1:1 to 1:40.

Input/output channel name

IN_1: _____ MENU: Name
 NAME: _____

NAME

A six character name can be assigned to each channel.

Output limiter

OUT_1: _____ MENU: Limit
 THRESH: 0.0dBu
 ATTACK: 10ms
 RELEASE: 8x (80ms)

THRESH

A limiter threshold ranges from -20dBu to +20dBu in 0.5dB steps.

ATTACK

The limiter attack time ranges from 0.3ms to 1ms in 0.1ms steps, then ranges from 1ms to 100ms in 1ms steps.

RELEASE

The limiter release time can be set at 2X, 4X, 8X, 16X, or 32X the attack time.

Output source

OUT_1: _____		MENU: Source
1: 0.00	4: Off	7: Off
2: Off	5: Off	8: Off
3: Off	6: Off	

1-8

This sets the input channel source for the current output channel. It can be used to mix the input source (in dB) or disable it (Off). If more than one input sources are enabled, they will be added together as the source for the current output channel. **(5-8 available for XD8080 model only)**

Output FIR crossover

OUT_1: _____	MENU: XOvr FIR
TYPL: Off	TYPH: Off
FRQL: 1000Hz	FRQH: 1000Hz

TYPL

The only available filter type for low frequency crossover point (high pass) is FIR.

FRQL

Filter cut-off frequency of low frequency crossover point (high pass). Ranges from 20Hz to 30kHz in either 1Hz steps or 1/36 octave steps. The frequency steps and FIR Taps can be selected in the **System menu**. Please refer to page 14.

TYLH

The only available filter type for high frequency crossover point (low pass) is FIR.

FRQH

Filter cut-off frequency of high frequency crossover point (low pass). Ranges from 20Hz to 30kHz in either 1Hz steps or 1/36 octave steps. The frequency steps and FIR Taps can be selected in the **System menu**. Please refer to page 14.

Operating the System menu

The **System menu** allows the user to control and change parameters that are related to the system behaviour and general operation. It can be accessed by pressing the **Sys** key in the main menu. (When no input/output or System menu is activated). All system menus require pressing the **Enter** key to confirm and save settings.

Preset recall

The XD has a built-in non-volatile memory that can store up to 30 different preset set-ups.

SYSTEM-SETUP MENU: Recall
PRESET: 1
NAME: _____

PRESET

This control selects which program to recall from the non-volatile memory. The program name is displayed to the right of the program #.

NAME

This shows the name of the program. This is read-only. The user has no access to them.

Preset store

The XD has a built-in non-volatile memory that can store up to 30 different program (or preset) set-ups. A program can be stored using this menu. The old program with the same program number will be replaced. Once the program is stored in the flash memory, it can be recalled at a later time, even after power down.

SYSTEM-SETUP MENU: Store
PRESET: 1
NAME: _____

PROG

This control selects which location in the non-volatile memory to save the program to.

NAME

A descriptive name of up to twelve characters can be assigned to each program.

FIR Taps settings

SYSTEM-SETUP	MENU: FIR Taps
1:50	4:50
2:50	
3:50	

1-4

Number of FIR Taps for each pair of output channels (i.e.. Output 1&2, output 3&4, output 5&6, output 7&8.)
The sum of all taps cannot exceed 1500 and maximum taps per pair is 1200.

(Parameters 5-8 are also available for XD series v5.xx and v6.xx. The FIR filters have been changed to dual channel structure in v7.xx.)

For FIR filters, the higher the Taps the higher the slope in dB for the same frequency, or the lower the frequency the FIR can handle for the same slope. Generally speaking, higher frequencies require smaller number of Taps, and lower frequencies require a higher number of Taps.

# of Taps	Minimum frequency (Hz)
50	4800
100	2400
150	1600
200	1300
250	1000
300	850
350	700
400	625
450	550
500	500
550	450
600	425
650	400
700	390
750	385
800	340
850	310
900	285
950	275
1000	265
1050	250
1100	230
1150	220
1200	210

Mic pre-amps

An optional microphone pre-amp can be added to the XD series. The user can select Line input or mic input from this menu. (Only available for XD4080M and XD 8080M models. Applies to Phantom power as well)

SYSTEM-SETUP		MENU: Mic
1: Line	4: Line	7: Line
2: Line	5: Line	8: Line
3: Line	6: Line	

1-8

The user can choose between Line input or Mic input/ For Mic input, the input will receive a 30dB gain. Each input channel can be selected individually. (Input 5-8 only available for XD 8080 model. Applies to Phantom power as well.)

Phantom power

The option microphone pre-amp also comes with Phantom power, which can also be enabled or disabled from this menu.

SYSTEM-SETUP		MENU: Phantom
1: Off	4: Off	7: Off
2: Off	5: Off	8: Off
3: Off	6: Off	

1-8

A 48V DC voltage can be supplied to external microphone when the Phantom power is enabled. Phantom power cannot be enabled individually for each input channel. All Mic input channels will automatically receive at 48V DC voltage. This will not affect Line input since they are disconnected physically.

Input and output mode

SYSTEM-SETUP		MENU: I/O Mode	
I12: A	I34: A	I56: A	I78: A
O12: A	O34: A	O56: A	O78: A

The user can select analogue or digital signal for input and output channels. (I56 and I78 available for XD8080 revision B model only)

If using AES/EBU, the XD accepts any sample rate on the inputs and will automatically up sample to its internal clock. The XD has a fixed output sample rate of 96kHz.

Copy channels

SYSTEM-SETUP	MENU: Copy
SOURCE: In1	
TARGET: In2	

Copy channels from the source to the target. When the source and targets are both inputs and outputs, all audio parameters will be copied. When the Source or the Target is an input while the other is an output, only the Level, Polarity, Delay, EQ, Crossover, and Channel name are copied.

SOURCE

This is the channel to be copied from.

TARGET

This is the channel to be copied to.

General settings

SYSTEM-SETUP	MENU: General
FREQ MODE: All Freq	
DELAY UNIT: ms	

FREQ MODE

This changes the frequency control mode for EQ and crossover filters. It can be 36 steps/octave or All frequencies (1Hz resolution).

DELAY UNIT

This sets the time unit for input and output delay to ms, ft, or m.

Ethernet settings

SYSTEM-SETUP	MENU: Ethernet
IP ADR:	255.255.255.254
GATEWAY:	255.255.255.255
SUBNET:	255.255.255.255

IP ADR

A unique IP address should be assigned to each unit in the network.

GATEWAY

The gateway address of the network. Usually this should be the IP address of your router/switch/hub address.

SUBNET

This sets the subnet mask used by your network.

Communication settings

NOTE: The user must power cycle the unit for this setting to take effect.

SYSTEM-SETUP	MENU: Comm
BAUD RATE:	115200
DEVICE ID:1	NET ID: 0

BAUD RATE

Sets the baud rate of the serial communication. XConsole uses a Baud rate of 115200. This should be left unchanged for most users.

DEVICE ID

This control assigns a device ID from 1 to 16 to the unit.

NETWORK ID

This control assigns a network ID from 0 to 60000 to the unit. The ID is used for future network expansion only. Please leave this at 0.

Security lock and unlock

SYSTEM-SETUP	MENU: Security
PASSWORD:_____	

PASSWORD

The password is four characters in length. The factory default of a new unit does not require a password. The device can be protected for unauthorized parameters and/or system abuse. The security settings can be controlled and stored in the device with the XConsole GUI only. When the correct password is entered in the device, all the locks are disabled. After re-entering the password or power cycling the device, the locks are automatically enabled again.

Factory settings

SYSTEM-SETUP MENU: Reset
RESET CURRENT: Yes

CURRENT

This resets all the current parameters back to factory default settings only, while stored presets and system settings stay untouched.

ISO Settings

SYSTEM-SETUP MENU: ISO
THRESHOLD: 102
BYPASS: Off

This internal system optimizer reduces ground floor noise if no signal is present. If unwanted noise gate effects are audible at low sound levels, it can be switched to bypass mode.

INFO

SYSTEM-SETUP MENU: Info
DEVICE NAME: _____
FIRMWARE: v9.00
SECURE CODE: 11110000

This menu displays the device name, firmware version and security code.

When no password is set, the factory default code is 11110000. When another combination of characters is displayed, a password is set in the device and certain functions are disabled for the user to modify.

Quick reference

Parameters	Menu <<Menu>>	Field <<Cursor>>	Min	Max	Steps	Units
Mic level	Mic gain	LEVEL	0	+45	3	dB
Level	Signal	LEVEL	-40	+15	0.25	dB
Polarity	Signal	POL	+/-			
Delay	Signal	DELAY	0	62400	1	10us steps
EQ number	EQ	EQ#	1	8	1	
EQ bypass	EQ	BYP	Off/On			
EQ type	EQ	TYP	PEQ / LO-SH / HI-SH / AP-1 / AP-2			
EQ level	EQ	LEVEL	-30	+15	0.25	dB
EQ frequency	EQ	FREQ	20	30,000	1	Hz
EQ bandwidth	EQ	BW	0.02	3.61	0.01	Octave
GEQ number	GEQ	GEQ#	1	31	1	
GEQ level	GEQ	LEVEL	-30	+15	0.25	dB
GEQ bypass	GEQ	BYPASS	Off/On			
XOver-IIR low type	XOver IIR	FTRL	Off / Butterworth / Linkwitz-Riley / Bessel			
XOver-IIR low freq	XOver IIR	FRQL	20	30,000	1	Hz
XOver-IIR low slope	XOver IIR	SLPL	6	48	6	dB/octave
XOver-IIR high type	XOver IIR	FTRH	Off / Butterworth / Linkwitz-Riley / Bessel			
XOver-IIR high freq	XOver IIR	FRQH	20	30,000	1	Hz
XOver-IIR high slope	XOver IIR	SLPH	6	48	6	dB/octave
XOver-FIR low enable	XOver FIR	ENAL	Off/On			
XOver-FIR low freq	XOverFIR	FRQL	20	30,000	1	Hz
XOver-FIR high enable	XOver FIR	ENAH	Off/On			
XOver-FIR high freq	XOver FIR	FRQH	20	30,000	1	Hz
Compressor threshold	Comp	THRESH	-20	+20	0.5	dBu
Compressor attack	Comp	ATTACK	0.3	100	0.1/1	ms
Compressor release	Comp	RELEASE	2 / 4 / 8 / 16 / 32X attack time			
Compressor ratio	Comp	RATIO	1:1 to 1:40			
Limiter threshold	Limit	THRESH	-20	+20	0.5	dBu
Limiter attack	Limit	ATTACK	0.3	100	0.1/1	ms
Limiter release	Limit	RELEASE	2 / 4 / 8 /16 / 32X attack time			
Source select	Source	1, 2, 3, 4, 5, 6, 7, 8	Off	+15	0.25	dB
Channel name	Name	NAME	6 characters			



Customer Support

If you'd like to contact us regarding product support or technical designs, email support@xilica.com and we'll connect you with a solutions engineer. Alternatively, if you'd like to speak to someone, you can call the following numbers for immediate assistance:

North America & Rest of world: +1 905-770-0055

Europe: +31 29940-1100

China & Hong Kong SAR: +852 2604-9382

www.xilica.com

Version: 2.0

