# AM16XR Audio Mixer Kit with the Behringer XR18 Audio Mixer OPERATION GUIDE



#### **About This Manual**

This manual covers the installation and usage of the SoniClear AM16XR Mixer Kit, based on the Behringer XR18 mixer. This kit is designed for use with all SoniClear digital recording software products.

Revision Date: 3/24/25 Printed in the United States.

Based on Behringer Presets file: AM16XRKit\_BehringerXR18\_RevA.scn

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# **AM16XR Operation**

# Overview

The SoniClear AM16XR Audio Mixer Kit uses the Behringer XR18 USB audio interface to make it easy to record medium to large in-person meetings with high audio quality.

The AM16XR kit is configured for use as a 16-channel microphone mixer to record SoniClear software. It accommodates recording six independent microphone tracks and a stereo mix, plus an additional 10 microphone channels included in the stereo mix for a total of 16 microphones in that mix.

The XR18 includes a headphone jack for direct monitoring of the microphones while recording. The mixer also supports sending the microphone mix to optional powered speakers for PA audio lift. The built-in Auto Mixer is designed to deliver maximum gain and intelligibility. This helps prevent feedback from occurring through the speakers when used with directional microphones, such as gooseneck designs.

The Behringer XR18 must be installed correctly before use. See the section below, "Behringer XR18 Kit Installation". After installation, the Behringer driver and control software will be ready to use when the computer is started to record in SoniClear.



# **Configuring the XR18**

Microphone levels and mixers are adjusted using the Behringer XR18 control panel software.

A preset created by SoniClear is provided as a starting point for using the system. The default configuration is set up to record microphones 1-6 as independent channels and to record those same microphones in a stereo mix, panned left to right. The additional 10 microphone inputs are muted by default. When unmuted the additional channels can be recorded and have the pan set to the center of the stereo mix.

Modification to the mix will be required based on the configuration required for the room. This is highly technical and will usually require SoniClear support to configure the mixer at time of installation. Once the system has been configured, it can be used without the need to make further adjustments while recording.

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# Operation



### **Using Microphones**

Plug in up to sixteen microphones using the XLR jacks on the front of the unit. Position the microphones in the meeting room to pick up all the participants.

#### Listening using Headphones

There is a headphone jack on the front of the XR18 interface. Plug the monitor headphone into the Headphone jack. A <sup>1</sup>/<sub>4</sub>" to 3.5mm adapter is included for headphones that use a 3.5mm plug. Adjust the headphone loudness using the level knob next to the jack.

#### Listening using Speakers

The Main Mix from the XR18 can be sent to a powered speaker for PA "audio lift" to help participants in the room to hear the audio being recorded. Connect the powered speaker to the Main L and Main R jacks on the Behringer using a suitable cable.

### Using a Backup Recorder

The AUX 1 and AUX 2 jacks can be used to connect to a backup recorder in stereo (left and right mix of channels). AUX 3 provides a mono mix of all the channels for backup, and AUX4 provides the same mono mix for feeding into video systems. All of these auxiliary outputs receive the same audio feed from the microphone automatic mixer as the signal being sent to SoniClear for recording and to the speakers.

#### **Playback from Windows Software**

You can play audio from SoniClear software or any Windows program for remote participants to hear. For example, presentations that contain video can play back directly into the recording and Speakers. This requires setting the Windows default speaker device to be the Behringer "Out 1-2" soundcard selection.

### **Preparation Before Each Meeting**

Before recording, follow these steps in preparation:

- Start the computer from a cold start or Reboot it if still running.
- Make sure Windows Update is not running in the background, and if it is, select the Pause option.
- Plug in and connect the XR18 audio interface to the computer with a USB cable. Always use the same USB port on the computer to ensure consistent operation. Connecting to a docking station or USB Hub is not recommended.
- To monitor or adjust the XR16 settings, also connect the Ethernet jack on the XR18 using the supplied Ethernet to USB adapter (or a direct connection to the computer Ethernet jack, if that is available).
- Plug in the microphones into the Behringer XR18 audio interface.
- Start SoniClear and run a test recording to check the proper operation and sound quality.

# SoniClear Recording Channel Layout

The SoniClear recordings created with this kit will have the following channels:

SoniClear Channel	Audio Recorded on Channel
Stereo Mix	Microphones 1 - 16
	SoniClear Readback Audio (Left/Right)
	Windows Program Playback (Left/Right)
Left	Microphones 1-3, 7-16
	SoniClear Readback Audio – Left
	Windows Program Playback – Left
Right	Microphones 4-6, 7-16
	SoniClear Readback Audio – Right
	Windows Program Playback – Right
1	Microphone 1
2	Microphone 2
3	Microphone 3
4	Microphone 4
5	Microphone 5
6	Microphone 6

# **Resetting All Controls**

If any of the required Behringer XR18 settings are accidentally changed, the default settings can be restored with the following steps:

Start the Behringer X-Air-Edit PC application from the icon on the desktop (or from the Windows Start button):



This will display the list of options for controlling the Behringer interface:



Click on the Load button in the upper right corner of this control panel to open the preset selection dialog:



Select the presets file. The default preset file is usually located in the SoniClear program directory and is specific to the instructions in this manual as of the time of publication:

C:\Program Files (x86)\SoniClear10\Presets\AM16XRKit\_BehringerXR18\_RevA.scn

It is also possible that the settings have been customized during installation and saved to the same location. Consult with your installation team or SoniClear if you have questions about which preset file to use.

# **AM16XR Kit Installation**

# **Hardware Installation**

# Overview

The AM16XR Kit includes the parts needed for recording in-person meetings, courts, and hearings. Included in the kit are:

- Behringer XR18 USB audio interface mixer
- Headphone adapter, 3.5mm to <sup>1</sup>/<sub>4</sub>" stereo plug (2)
- Ethernet to USB adapter

### **USB Interface**

The Behringer XR18 interface connects to the computer using a standard USB A to B cable for sending and receiving the audio. The XR18 should only be connected directly to a port on the computer or a manufacturer supplied docking station. Connecting it to a USB hub may result in unreliable operation.

#### **Power Connection**

The Behringer XR18 is powered using the included Behringer power cable.

Ethernet Control

The Behringer XR18 is controlled using software that communicates with the mixer through an Ethernet connection. This can be either a direct connection to an available Ethernet jack on the computer, or connecting the Ethernet cable to the computer using an included Ethernet to USB adapter.

### **Microphone Connections**

The AM16XR Kit can be configured with up to 16 microphones.

Any professional microphone with an XLR connector can be used with the XR18. Up to sixteen microphones can be connected. When using the AM16XR kit with an attached powered speaker for audio lift, highly directional microphones are required for each participant to reduce the potential for feedback.

The microphone input jacks can also be used to connect TRS line-level cables for feeding audio from an existing sound system.

### **Headphone Connection**

Plug the headphone into the jack on the front of the XR18 interface, using the supplied <sup>1</sup>/<sub>4</sub>" to 3.5mm adapter if needed.

#### **Speaker Connection**

A user-supplied speaker can be connected to the XR18 using XLR cables. If the speaker requires other types of connections (such as 3.5mm or <sup>1</sup>/<sub>4</sub>" TRS, suitable cables will need to be supplied by the user).

#### **Backup Recorder Connection**

A user-supplied backup recorder can be connected to the XR18 XLR AUX output jacks. The AUX 1 and AUX 2 jacks supply a stereo signal that matches the audio being recorded in SoniClear. The AUX 3 jack supplied a mono mix of all the microphones. The backup recorder connection must accommodate the type of input on the recorder. Consult with SoniClear Support for assistance with backup recorder connections.

#### **Video Feed Connection**

The AUX 4 jack on the XR18 supplies a mono mix of all the microphones for sending audio to a SoniClear video camera or encoder, or other professional video equipment.

#### **Internal Loopback Connections**

The XR18 mixer control panel is used to send the AUX 1 and AUX 2 mix back to the computer as a "loopback", allowing SoniClear to record the audio.

# **Behringer XR18 Software Installation**

### Drivers

The Behringer XR18 requires manual installation of product-specific Windows drivers using the "XR18 USB Audio Driver" installer. This creates Windows audio soundcard devices in WDM/MME stereo pairs for recording in SoniClear.

In addition the X-AIR-Edit (PC) software must be installed from a download. This is the control panel software for configuring the device.

As of the last update to this manual, the download link for the driver installer and control panel software was available on the XR18 product page under the "Product Library/Software section of the page:

https://www.behringer.com/product.html?modelCode=0605-AAD

Only install software downloaded from the official Behringer website. Do not install software from a third-party service.

The currently available driver does not provide any method to automatically update the driver or scan for updates. It is recommended that you periodically check the Behringer support site to see if any updates have been made to the software.

#### Locating the Preset File

The Behringer XR18 requires configuration through the X-AIR-EDIT PC control panel for compatibility with SoniClear. To simplify setting up the mixer, a default preset file for use with SoniClear is provided. The instructions in this manual are specific to the following preset file provided at the time of publication:

C:\Program Files (x86)\SoniClear10\Presets\AM16Kit\_BehringerXR18\_RevA.scn

If the presets are not available in the program directory, they can be downloaded from the SoniClear website:

#### https://download.soniclear.com/AM16XR/

After downloading the preset zip file, extract the zip file contents to obtain the ".scn" file for loading into the mixer. It is also recommended to save a copy of this preset file, or any customized preset, in the SoniClear Presets directory to make it easy to find in the future.

#### Load the Preset File

See the instructions in the section above "*Resetting All Controls*" for instructions on how to load the preset configuration into the XR18.

### **Saving Presets**

After loading the presets, adjust the microphone and headphone levels to work optimally with the microphones. Then save these customized settings in a custom preset file for future use. It is important to save these customized presets so that the SoniClear user can restore the correct settings, in case a setting has been changed by accident.

Click on the Save button in the upper right corner of the X-AIR-Edit control panel:



It is recommended to save the presets file to the desktop and then move it into the SoniClear Program directory (usually C:\Program Files (x86)\SoniClear10\Presets\) to make it easier to find.

# **Behringer XR18 Manual Configuration**

The loopback mixer is configured properly after the supplied presets have been loaded. See section above, "Locating the Preset File", and "Loading the Preset File". To manually configure the settings without the presets, open the Behringer XR18 X-AIR-Edit PC control panel and then follow the instructions provided in this section of the Operation Guide.

# Overview

The AM16XR kit is suitable for recording from up to 16 microphones in a medium to large room setting. The X-AIR-Edit control panel must be configured for the following features:

- Establish connection to the XR18 device via Ethernet.
- Set the Monitor output to feed from BUS 5/6 for monitoring of the microphones and audio from the computer
- Adjust the In/Out settings for inputs, outputs, and USB settings.
- Disable FX channels.
- Adjust each channel strip (microphone input) to have the necessary gain and audio processing.
- Auto Mix of all microphones to the Main LR output.
- Send the same Auto Mix signals to the AUX 1 2 audio outputs.
- Send a mono mix of the Auto Mix signals to AUX 3 and 4
- Send the same Auto Mix signals to the AUX 5-6 monitor output.
- Save a "Snapshot" of the final mix (also called a Preset).

# How to Open Behringer Control Panel

Start the Behringer X-Air-Edit PC application from the icon on the desktop (or from the Windows Start button):



This will display the list of options for controlling the Behringer interface:

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0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-00	-00	-00	-00		0.0
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20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	FX 2	20— — — — 30— —
50 — — 50 — —	50 — —	50 — —	50 — — 50 — —	50 — — 50 — —	50 — — 50 — —		50 — — 50 — —	50 — — 50 — —	50 — — 50 — —	50 — —	50 — — 50 — —	50 — — 50 — —	50 — — 50 — —	50 — — 50 — —	50 — — 50 — —	50 — — 50 — —	50 — — 50 — —	50 <u>-</u> -	50	50 — — 50 — —	FX 3	50 — — 50 — —
1							F_	F_				_ <b>-</b> [-				E					FX 4	
Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	1 2 3 4	Mute
			04													Aux	FX 1	FX 2	FX 3	FX 4	MUTE GROUPS	LR

# **Setup Dialog**

Click on the Setup button in the upper right corner of the mixer window:



This displays the Setup dialog:



### **Initial Connection to XR18**

Before any settings can be adjusted in the XR18, the X-AIR-Edit PC software running on the computer must first make a connection to the mixer. This can be accomplished by either connecting to the XR18 using the built-in WiFi Access Point server, or using an Ethernet connection through a network that has a DHCP server to set the address on the XR18.

The XR18 has a switch in the upper left corner of the device for configuring the mixer to connect to the computer via the Ethernet jack, the built-in WiFi connecting as a Client, or the WiFi providing an Access

Point for the computer to connect to. When attempting to make a connection it is possible to reset the XR18 connection address by pressing the recessed reset button just above the WiFi icon on the unit.

One important issue to be aware of when connecting to the XR18 the first time is that the X-AIR-Edit PC software scans the Ethernet connection to locate the XR18 on any address on the system. This scanning process can fail if there are multiple networks connected to the computer. For example, if using an Ethernet port to connect to the XR18 and a WiFi connection to connect to an office network at the same time, the scanning process may end up sending the traffic to the wrong device and fail to find the mixer. The solution is to turn off all additional network connections when getting started and then set the Interface Metric advanced setting to a low number on the Ethernet port where the XR18 will normally connect.

#### WiFi Connection Method

The easiest way to gain access to the XR18 unit is using the built-in WiFi Access Point server. This can be accomplished with these steps:

- 1. Switch the connection method on the XR18 to WiFi Access Point option (selection slider switch set all the way to the right).
- 2. Turn on the XR18 mixer.
- 3. The XR18 will broadcast a WiFi signal with "XR18" included in the WiFi name. The XR18 WiFi server sets its internal address to 192.168.1.1 and servers DHCP addresses starting at 192.168.1.101.
- 4. Make sure there are no other Ethernet devices enabled in the computer so that WiFi will be the only method available to send and receive data.
- 5. Select the XR18 WiFi address in the WiFi options of the computer where the X-AIR-Edit PC software is running.
- 6. The computer will connect to the XR18 unit and obtain an address automatically using DHCP.
- 7. In the X-AIR-Edit software, select the Setup button and then select the Connection tab.
- 8. You should see the XR18 listed as an available mixer. Select the unit address in the list and click Connect.

#### **DHCP Ethernet Connection Method**

Using the internal Ethernet jack of the computer, or an external Ethernet to USB adapter, make a connection to connect to the XR18 following these steps:

- 1. Connect XR18 Ethernet jack to a network that provides DHCP addressing. Note that for security reasons, it is recommended that you do this setup step on a network that is disconnected from the main organization network. For example, connecting to a standalone router that provides DHCP.
- 2. Connect the recording computer to the same network.
- 3. Make sure there are no other Ethernet devices enabled in the computer so that only this Ethernet jack will be used to send and receive data.
- 4. Switch the connection method on the XR18 to the Ethernet option (selection slider switch set all the way to the left).
- 5. Turn on the XR18 mixer.
- 6. The XR18 will obtain an Ethernet address automatically via DHCP.
- 7. In the X-AIR-Edit software, select the Setup button and then select the Connection tab. In the Connection tab, select the XR18 address in the list of mixers and click Connect.

### **Configure Auto Connect to XR18**

Configure the Connection tab to connect automatically to the XR18 mixer:

- 1. After the unit connects, there is an opportunity to upgrade the firmware from a file that has been previously downloaded from the Behringer website, if needed.
- 2. Enable the Auto Connect option in the Connection tab.
- 3. Click on the LAN tab.

	Setup	$\Theta$
Connection ((;)) AP ()	WLAN 🕎 LAN 💭 Audio/Midi	Monitor 🗓 GUI Prefs
LAN Settings:		CANCEL
LAN Mode	STATIC DHCP DHCP	Server
IP Address	192.168.5.60	
Subnet Mask	255.255.0.0	
Gateway	0.0.0.0	

- 4. Set the LAN Mode to STATIC.
- 5. Enter a unique IP address for connecting to this device through an isolated network connection. This could be using the supplied Ethernet to USB adapter, or a direct connection to an available Ethernet jack on the computer. The default address in the AM16XR kit preset file specifies the fixed address as 192.168.5.60.
- 6. Configure the internal Ethernet jack or Ethernet to USB adapter to run on the same subnet (such as 192.168.5.6):

Internet Protocol Version 4 (TCP/IPv4)	Properties	$\times$
General		
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	atically if your network supports ask your network administrator	
Obtain an IP address automatical	у	
• Use the following IP address:		
IP address:	192.168.5.6	
Subnet mask:	255.255.255.0	
Default gateway:		
Obtain DNS server address autom	atically	
• Use the following DNS server add	resses:	
Preferred DNS server:		
Alternate DNS server:		
Ualidate settings upon exit	Advanced	
	OK Cance	ł

7. Click on the Advanced settings button and change the Interface metric from Automatic metric to a metric value of 1:

	DNS	WINS		
IP addre	sses			
IP add	dress		Subnet mask	
192.1	68.5.6		255.255.255.0	
		Add	Edit	Remove
		Add	Edit	Remove
Auto	matic met	ric		
Interfac	e metric:	1		

- 8. Return to the Connection tab and make sure that the XR18 shows up in the list of mixers and connects automatically.
- 9. After this setup is completed the WiFi or Ethernet devices in the computer that were initially disabled can be re-enabled.

# Audio/Midi Tab

Click on the Audio/Midi tab and select the Clock Rate of 44.1kHz.

The rest of the default settings do not need to be changed
--

	Se	etup		$\Theta$
Connection ((;))	AP ()) WLAN 🕎 L	AN 💭 Audio/Mid	i 💽 Monitor	GUI Prefs
Audio and Midi S	Settings:			
Clock Rate	🔵 48 kHz 🛛 🔘 44.1 k	κHz		
Safe Levels	Mute outputs at po	wer cycle		
Link Pref.	🗹 Preamp 🛛 🗹 EQ	🗹 Dyn 💽	🛛 Fader, Mute	
Mute System	🗌 Hard Mutes 🛛	DCA Groups	Channel ON b	uttons
USB Interface	◯ 18/18 ch ◯ 2/2 ch	1		
MIDI Config	🗹 DIN RX 🗌 DIN T	x 🗹 DIN X-OSC		
	🗹 USB Rx 🗌 USB T	x 🗹 USB/OSC	USB-DIN Pa	ss Thru

# **Monitor Tab**

Click on the Monitor tab:



Set the Monitor Source to BUS 5/6

The rest of the settings can be left at default.

# **GUI Prefs Tab**

Click on the GUI Prefs tab:

	Setu	ıp	$\Theta$
Connection ((;))	AP )) WLAN 🕎 LAN	Audio/Midi 🚺 Moni	tor O GUI Prefs
GUI / Display Pre	eferences:		Shortcut Keys
Sends Taps	🗹 Apply changes to all c	hannels	
Auto Select	Follow last Solo	Channel fader move	
Solo Mode	Exclusive Solo		
Fader Mode	🗌 Fine	Deactivate mouse wheel	
Update Rate	🗌 Meter 50%	🗌 RTA 50%	
Window Mode	Restore windows at st	artup	Initialize
Bus Buttons	🗹 Show bus names		
Confirm Pop-Ups	s 🗌 General 🛛 🗌 Overwrit	ce/Delete 🗌 Snapshot	/Preset Load
Always on Top	FX 1-4   Snapsho     DCAs   User 1	ot 🗌 Recorder 📄 RTA 🗌 User 2 📄 DCA Spil	🗌 Buses I 🗌 Main Meter

Enable Sends Taps - Apply changes to all channels, and Bus Buttons - Show bus names.

# **In/Out Dialog**

Click on the In/Out button in the upper right corner of the mixer and configure the inputs and outputs.

# **Input Tab**

Click on the Input tab and configure the Analog input channels as follows:



# **USB Returns Tab**



Click on the USB Returns tab and configure as follows:

### **USB Sends Tab**



Click on the USB Sends tab and configure as follows:

Note that all the USB send signals are tapped at the Analog source, except the USB 7-8 signals (stereo mix). These are tapped at the Post Fader. Setting the type of tap is accomplished by right clicking on the circle icon and selecting from the tap menu.

#### **Ultranet Tab**

The Ultranet settings do not need to be adjusted, since that feature is not used in this system.

# Aux Out Tab



Click on the Aux Out tab and adjust the connection as indicated here:

# Main Out Tab

Click on the Main Out tab and set the Main output to Mail L/R. Set the Phones output to Montor.

															In,	/Out	ŧ										Θ	$\otimes$
(T) Input	C	▼) N	USE	B R	etur	ns		[		USI	3 Se	ends	ľ,	ייי נ	Jitrai	net	ľ,	ux O	ut	ΙL ΙR	Mair	n Out		I/O J	oatchi Prese	ng ets	60	
	Main L/R	Monitor	USB 1/2	USB 3/4	USB 5/6	USB 7/8	USB 9/10	USB 11/12	USB 13/14	USB 15/16	USB 17/18																	
Main																												
Phones		$\bullet$																										

# **Adjust Microphone Channel Strips**

Each microphone needs to be adjusted for levels, routing, gating, compression, and equalization. Click on the Mail LR button in the mid right section of the control panel:



Next select the microphone channel "strip" number 1 by clicking on the channel number in the middle of the strip.



After selecting the channel, click on the Channel button at the top of the mixer window:



The Channel section provides an overview of the main settings for each aspect of the channel. Most the settings used by the AM16XR kit are accessible from this screen:

Hixer	tt. Channel	[Ţ] Input ☐ Gate	EQ [	Comp	Sends $\left[ \begin{smallmatrix} L & L \\ I & R \end{smallmatrix}  ight]$ Main	FX FX Meter	
	Channel Input Return USB 48V Phantom ⊘ Polarity L StereoLink FX Off ↓	Noise Gate	Equalizer Equalizer Low Cut	Compressor Compressor	Aux Bus Sends	Main Out R Main Stereo Panorama +76 Auto Mix 300	
-30	48 - 1 36 - 4 12 - 4 12 - 4 12 - 4 12 - 1 12	2 10 10 10 10 6 30 10 20 40 20 20 40 30 20 40 30 30 2 40 40 50 2 40 50 50 5 50 50	230 Hz 140 Hz 90 Hz 60 Hz 40 Hz 20 Hz Frequency	.10	Effect Sends (1) (2) (3) (4) (4) (5) (4) (5) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	X         Y           DCA Groups         40           1         2         3         4           Mute Groups         1         2         3         4	   01

# **Channel Input**

In the Channel Input column, make the following adjustments:

- Disable the USB option for return.
- Set the "48V" Phantom power option if the microphone plugged into that channel requires phantom power (usually this is the case, unless using dynamic microphones).
- Leave Polarity, StereoLink, and FX options off.
- Adjust the Mic Gain slider to produce the required output level for this type of microphone. For example it defaults to +46 db in the provided preset.
- Leave USB Trim at 0 db.
- Adjust the Noise Gate



#### **Noise Gate**

Set the Noise Gate Threshhold to -50 and enable the Noise gate button:



The noise gate Threshold value may need to be set to a higher or lower value, depending on the background noise level of the sound entering each microphone. The level must be high values will remove louder background noise. However, at some point the mixer may cut off people who are speaking softly or off microphone if the Threshold is set too high.

### Equalizer

Enable the Equalizer button and select the Low Cut button:



This will remove low frequency noise that is not related to speaking, and allow for adjustment of the microphone tonal quality to address room resonances that may affect intelligibility or cause feedback. The default preset values do not adjust this equalization, other than Low Cut, but will need to be customized based on the microphone and room characteristics.

# Compressor

Adjust the Compressor Threshold to -30. This will ensure that people speaking on microphones will have a more even loudness level.



# **Aux Bus Sends**

The levels of how this channel are sent to the Aux Bus outputs can be adjusted in this section, but are easier to adjust from the sliders for each Aux mix, which will be described below.



# Main Out

The Main output can be adjusted in this section. Turn on the LR Main Stereo button to sent the microphone signal to the Main Output. Adjust the Panorama to the "pan" location for that microphone in the stereo mix. Generally this will be starting with Channel 1 panned to the left and working through to the last microphone being panned to the right.

Turn on the X button to enable sending the microphone to the "X" Auto Mix channel.

The DCA Groups and Mute Groups are not used in this system.



# **Channel Input Adjustments**

Click on the Input button to display the detailed channel input settings:



This will display additional options for the channel inputs:



No additional adjustments in this screen are need for the default configuration.

# **Gate Section**

Click on the Gate button to display the detailed Gate settings:





The provided presets do not modify the default settings for this screen, other than the Threshhold set to - 48dB.

# **EQ** Section

Click on the EQ button to display the detailed EQ settings:



1 2 RTA RESET EQ Low 🕛 LoMid 🕛 HiMid 🕛 High 🕛 Pre Spec PEQ PEQ ¢ PEQ 🗘 ¢ HShv 🗘 Mode +0.00 dB **+0.00** dB Gain +0.00 dB +0.00 dB Gain: 124.7 Hz 496.6 Hz 1k97 10k02 Hz Hz Freq Frequency: 2.0 Low Cut Qual 2.0 2.0 Quality:

The EQ settings can be adjusted to improve sound quality and reduce feedback. The supplied presets do not modify the EQ other than the Low Cut filter.

# **Compression Section**

Click on the Comp button to display the detailed compression settings:



The Compression settings can be adjusted to improve sound evenness of the voices being recorded. The supplied presets do not modify the Compression other than the Threshold level of -30dB.

### **Sends Section**

Click on the Sends button to display the detailed Sends settings:





The tab locations for all output busses are set to Pre Fader, and the levels are at unity (0dB). All FX busses are set to Post Fader with levels completely off. When adjusting these settings, if the Global icon on the right side is lit up (ON), the changes made will be applied to all channels in the mixer.

## **Main Settings**

Click on the Main button to display the detailed main output settings:





Set the Main Stereo button to ON to send this channel to the Main output.

Adjust the Panorama control the pan position the microphone signal in the stereo mix. Generally microphones are mixed with the first microphone on the left and the last microphone on the right.

Turn on the "X" Auto Mix Assign button to enable auto microphone mixing. The relative importance of this channel signal in the overall automatic mix can be adjusted using the Weight control. Higher values indicate more importance (less reduction of gain compared to other competing channels in the mix). The default value for all the channels.

### FX Settings

Click on the FX button to display the detailed effects settings for this channel:



FX 1	FX 2	FX 3	FX 4
Gated Reverb 🗢 Type	Hall Reverb 🖨 Type	Modulation Delay 🗘 Type	Dimensional Chorus 💠 Type
			Diversional Character
	MAL (MINTER FLATE ROOM (DUMER) (CORCER)		
		_5 Tap5	
-10			-10 <u></u>
-2020 Insert	.20 Insert .20	-20	·20 Insert ·20
-30	-303030 -40 OFF \$ -30	-303030 _40OFF \$	-303030 .40 OFF \$ .40
-50 OFF \$ -50	-50 OFF \$ .50	-50 OFF \$ -50	-₅0 OFF ♦ .₅0

The DSP effects are not used for this system and should all be set to OFF ("Insert" button OFF and the combo boxes OFF).

# Meter Display

Click on the Meter button to see a display of all levels in the system in one screen:



o						ļ	Anal	og Ir	nputs								Eff	ects	Sen	ds		Effe	cts F	Returr	าร		I	Bus (	Dutp	outs			Mon/Solo	Main
-5																																		
-20	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_				_								_		_	_		
-30																																		
-50	-						-																					_	_	_	_	_	-10	-10
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17/18	1	2	3	4	F۷	K1 F	X2 F	FX3 F	=X4	-	1	2	3	4	5	6		
0 —							JSB	Ret	urns													P16	3 UL'	TRAN	NET :	Sen	ds							-30——
-5																																	-40	-40
-20																																		
-30																																		
-50																		-																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17/18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	LR	LR

Bus Labels and Colors

Each mix bus can be identified more easily by adjusting the name and the color of the controls in that section.



For the preset provided with this kit, the following changes were made:

Bus	Name	Color
Main Mix	Main LR	Blue
Bus 1	Record L	Red
Bus 2	Record R	Red
Bus 3	Record Mono	Red

Bus 4	Video Mono	Blue
Bus 5	Monitor L	Yellow
Bus 6	Monitor R	Yellow

# **Main Mix Settings**

The detailed settings for the Main Mix can be adjusted by clicking on the Main LR button, then clicking on the Channel button.



This will display these settings in the upper left corner of the window:

Hixer	Channel	[(▼]) Input	Gate	EQ	Comp	∐-]✦ T→ Sends	$\begin{bmatrix} L & L \\ T & R \end{bmatrix}$ Main	<b>∧</b> ∽ FX	Meter
	Channel Input			Equalizer	Compres	ssor		Main Out	
LR									
								Balance	-5
-5								+0	-10
				Equalizer		_			-20
-10	FX Off <b>≑</b>				Compres	ssor		Auto Mix	
-20					-10				-30
-30					-20			DCA Group	s -40
-40					-40	12			
-50					-50	15 18		Mute Group	•s -50
					Threshold	GR			LR

Set the Channel Input FX button to OFF and combo box selection to Off, The Equalizer can be turned on or off depending on if it is used. It is not used in the default preset for this kit.

The Compressor can be left OFF because all the individual microphone channels already have compression.

The Balance in the Main Out column should be zero.

# Bus Mix 1 – 6 Settings

The detailed settings for each Bus Mix can be adjusted by clicking on bus button, then clicking on the Channel button for each of the busses:

Record L	Ø	Record R
Record Mono		Video Mono
Monitor L	Ð	Monitor R
↓ <b>!</b> ■ cı	nann	nel

This displays the settings for the bus:

	Channel Input	Equalizer	Compressor	Main Out	
Record L				LR Main Stereo	
				Panorama	-5
_				-100	-10
	L StereoLink	Equalizer			-20
-10	EX Off ♦		Compressor	Auto Mix	
-20				Auto Mix	-30——
·30——			-10 3 -20 6		.40
-40			-30 9		
-50			-50 - 15	Mute Groups	-50
			-60 - 18	1 2 3 4	
Bus 1			Threshold GIV		Bus 1

For Bus 1 - 2 and 5 - 6, the StereoLink button should be lit. This will create a stereo bus for Left and Right channel that track their volume in sync.

The input FX and combo box should be Off.

The Equalizer and Compressor buttons can be off, since EQ and compression is being handled in the individual input channels.

The Main Out setting should have the LR Main Stereo option turned OFF.

The Panorama setting should be set based on whether this bus is output to the Left, Right, or Center (mono) of the mix.

The DCA Groups and Mute Groups are not used in this system.

# **Main Mix Settings**

The Main LR Mix slider settings control the level of each channel that is added to the Main mix, which is sent to the speakers and the monitor headphones. To display the Main Mix sliders, click on the Main LR button on the right middle area of the window:



This shows the input sliders to display the levels for each microphone that will be added to the Main Mix:

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	Aux	FX 1	FX 2	FX 3	FX 4
Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-00	-00	-00	-00
$\odot$	$\odot$	$\bigcirc$	$\odot$	$\odot$	$\odot$	$\bigcirc$	8	$\odot$	$\odot$	$\odot$	$\odot$	$\odot$	$\odot$	$\bigcirc$	• 😣	0				0
	10															10		10		10
Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	Aux	FX 1	FX 2	FX 3	FX 4

Set all of the sliders for channels 1 - 16 and Aux to unity (0dB). Then set the FX 1 - 4 sliders to the lowest level, since these are not used in this system.

The Mute button should be turned ON (red) for any channels that do not have a microphone or other audio source connected to them. Failing to mute unused channels may lead to excessive background noise.

# Bus 1 – 6 Mix Settings

The Bus Mix slider settings control the level of each channel that is added to each of the six bus mixes. To display each Bus Mix set of sliders, click on the Bus button on the right middle area of the window:



This shows the input sliders to display the levels for each microphone that will be added to the Bus Mix:

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	Aux	FX 1	FX 2	FX 3	FX 4
Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo	Solo
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.5	-00	-00	-00	-00
$\odot$	$\bigcirc \otimes$	$\odot$	$\odot$ $\otimes$	$\odot$	$\bigcirc \otimes$	$\bigcirc \otimes$	$\bigcirc \otimes$	$\odot$	$\odot$	$\bigcirc \otimes$	$\odot$	$\odot$	$\bigcirc \otimes$	$\odot$	$\odot$					
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10 5	10	10	10	10
								0000						0000	0000		0000	0000		
Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	Aux	FX 1	FX 2	FX 3	FX 4

Set all sliders and mute buttons to the same settings as the Main Mix.

# Windows Sound Settings

### **Default Playback Device**

Open the Windows Control Panel by clicking on the Windows Start button, typing "Control Panel" to search for the program and clicking on the Control Panel App search result.

In the Control Panel, make sure the View by option is set to Small Icons:

View by: Small icons -

Then click on the Sound control panel to display the detailed Windows Sound control panel. In the Playback tab select the default playback device to use in Windows programs.

If you want to play audio from Windows programs through the PA speakers (and/or to be captured in the SoniClear recording), select the OUT 1-2 BEHRINGER X-AIR audio device as the default Windows output sound device.

If you want to play audio from Windows programs through some other device (such as the computer speaker), select that as the default playback device instead.

谢 Soun	d						>
Playback	Recording	Sounds	Commun	nications			
Select a	playback de	vice belo	w to mod	dify its set	ttings:		
~~	OUT 1-2 3- BEHRII Default D	NGER X-A evice	AIR				^
<i>~</i>	OUT 1-8 3- BEHRIN Ready	NGER X-A	AIR				
<i>~</i>	OUT 3-4 3- BEHRII Ready	NGER X-A	AIR				
<i>~</i>	OUT 5-6 3- BEHRII Ready	NGER X-A	AIR				
<i>~</i>	OUT 7-8 3- BEHRII Ready	NGER X-A	AIR				
	Speakers	ICCT AU	lia				~
Confi	gure			Set Defa	ult 🖛	Properti	es
		Γ	ОК		Cancel	Ap	ply

# **Default Recording Device**

Set the Windows Sound Recording defaults by clicking on the Recording tab of the Sound panel:

Soun	d						2
Playback	Recording	Sounds	Commu	nications			
Select a	recording d	levice bel	ow to mo	dify its se	ettings:		
<i>~</i>	IN 1-2 3- BEHRI Ready	NGER X-A	AIR				^
<i>~</i>	IN 1-8 3- BEHRI Ready	NGER X-/	AIR				
<i>~</i>	IN 3-4 3- BEHRI Ready	NGER X-/	AIR				
<i>~</i>	IN 5-6 3- BEHRI Ready	NGER X-/	AIR				
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	IN 7-8 3- BEHRI Default [	NGER X-/ )evice	AIR				
1	External	Micropho	one				~
Confi	gure			Set Defa	ult 🖙	Properti	es
		Г	OK		Cancel	Ap	nlv

Set the IN 7-8 BEHRINGE X-AIR device as the default recording device for Windows programs by clicking on that driver and then clicking the Set Default button.

# **SoniClear Software Preferences**

# Overview

The SoniClear software preferences must be configured to work with the Behringer XR18 interface. To do this, start SoniClear and select Edit/Preferences from the pulldown menu.

The recordings created with this configuration will have the following channels:

SoniClear Channel	Audio Recorded on Channel	
Stereo Mix	Microphones 1 – 6 panned L-R, 7-16 Center	
	SoniClear Readback Audio (Left/Right)	
	Windows Program Playback (Left/Right)	
Left	Microphones 1, 2, 3, and 7-16	
	Remote Conference or Softphone Participants	
	SoniClear Readback Audio – Left	
	Windows Program Playback – Left	
Right	Microphones 4, 5, 6, and 7-16	
	SoniClear Readback Audio – Right	
	Windows Program Playback – Right	
1	Microphone 1	
2	Microphone 2	
3	Microphone 3	
4	Microphone 4	
5	Microphone 5	
6	Microphone 6	

### **Recording Options Tab - Sound Quality**

In the Recording Options preferences tab, set the recording format. For Meeting Recorder 9 select Meeting (Stereo WAV). For All other SoniClear products, select Multichannel (MP3) and set the channels selector to 8 channels (6 independent channels and a stereo mix).

Preferences		×
Files Recording Options Hardware Markers Opti	ons Foot Pedal License Cloud	
- Sound Quality	C Multichannel(WAV) Multichannel(MP3)	
VoiceBoost	Exporting VoiceBoost Options	
Custom Type: 2-Channel  Set Defaults Custom Name:	<ul> <li>Always Confirm for Stop Recording</li> <li>Append Recording to End of File</li> <li>Enable Undo</li> <li>2-Channel</li> </ul>	
	ОК	Cancel

# Hardware Tab – Audio Device Selection

Select the Hardware tab and modify the settings according to the following instructions.

Recording Device Setup	Playback Device Setup
Default Recording Device / Stereo Mix	Default Speaker Device:
IN 7-8 (3- BEHRINGER X-AIR)	OUT 1-2 (3- BEHRINGER X-AIR)
First Recording Array Device: IN 1-2 (3- BEHRINGER X-AIR) VEHRINGER X-AIR)	Set Default Device as Removable
Input Source:	Use Removable Device If Present  Automatically Set Removable Device
Set Default Device as Removable Use Removable Device If Present	<ul> <li>Enable Live Monitoring</li> <li>Monitor Device:</li> <li>Speakers (Conexant ISST Audio)</li> </ul>
Automatically Set Removable Device  Advanced Recording Options  Recording Priority: High  Disk Update Time: 5000 milliseconds  MMCSS  Force Recording at 44,1KHz.	Advanced Playback Options Monitor Delay: 3 secs. Force Playback at 44.1KHz.

#### **Recording Device Setup**

The Recording Device Selection side of the Hardware tab controls the usage of the sound cards in the computer during recording.

#### Default Recording Device

This is the sound card input for recording the stereo mix of all the participants. It should be set to "IN 7-8 BEHRINGER X-AIR". Note that the name may have an additional number included in that phrase. This indicates that the XR18 interface has been plugged into more than one USB jack on the computer at some point in time.

Once the Default Recording Device field has been set, the XR18 must be plugged into the same USB jack on the computer each time it is used.

First Recording Array Device

See below, "Recording Array Setup".

Removable Recording Device

"Use Removable Device If Present" and "Automatically Set Removable Device" options should be unchecked.

Advanced Recording Options

These options control how recording is processed.

**Recording Process Priority** 

Default value should be set to High or Automatic.

Disk Update Time

The default value should be set to 5000 milliseconds.

#### MMCSS

The value should be set to Checked.

Force Recording at 44.1KHz

The value should be set to Checked.

#### **Recording Array Setup**

Click on the Edit button next to the "First Recording Array Device" field to display the setup dialog for the individual microphone channels. This set of options controls how the individual inputs are recorded separately in SoniClear.

Record Device Array Settings	×				
First Recording Array Device: IN 1-2 (3- BEHRINGER X-AIR)	•				
2nd Recording Array Device:					
3rd Recording Array Device:					
4th Recording Array Device:					
5th Recording Array Device:					
	•				
6th Recording Array Device:	•				
Cancel Default OK					

Set each of the recording array devices to the corresponding stereo pair device in the XR18:

- 1. Recording Channels 1-2: "IN 1-2" (Microphones 1 and 2)
- 2. Recording Channels 3-4: "IN 3-4" (Microphones 3 and 4)
- 3. Recording Channels 5-6: "IN 5-6" (Microphones 5 and 6)

#### **Playback Device Selection**

The Playback Device Selection section of the Hardware tab controls the usage of the sound cards in the computer during playback.

#### Default Speaker Device Selection

This is the sound card that will be used for playback to the participants in the room (through the speaker), and to the remote participants (through the conference software). It also sends the audio for playback to the headphones.

Set the Speaker Device Selection to "OUT 1-2 BEHRINGER X-AIR"

#### Removable Recording Device

"Use Removable Device If Present" and "Automatically Set Removable Device" options should be unchecked.

#### Enable Live Monitoring

Live monitoring should be enabled and the headphone device set to the headphone device on the computer.

#### Advanced Playback Options

These options control how playback is processed. These fields should only be changed in the event of problems with playback using the default settings. Consult SoniClear support for assistance.

#### Monitor Delay

Monitor Delay should be set to the default of 3 seconds.

Force Recording at 44.1KHz.

This field should be set to Checked.

# **Transcriber Live Software Preferences**

When Transcriber Live is used with SoniClear Court Recorder 9, the Behringer XR18 headphone can be used to monitor audio, and readbacks can be played so that the readback audio is heard by the teleconference participants.

# Hardware Tab – Audio Device Selection



Configure Transcriber Live for using the Behringer XR18 interface. Select Edit/Preferences from the pulldown menu, click on the Hardware tab, and set the options according to the following instructions.

#### Playback Device Selection

The Playback Device Selection section of the Hardware tab controls the usage of the sound cards in the computer during playback.

#### Default Speaker Device Selection

This is the sound card that will be used for playback into the speakers in the room. Set the device to "OUT 1-2 BEHRINGER X-AIR"

#### Removable Recording Device

The "Use Removable Device If Present" and "Automatically Set Removable Device" check boxes should be unchecked.

#### Enable Live Monitoring

Enable live monitoring by checking this option. Set the Headphone device to the headphone device of the computer.

#### Advanced Playback Options

These options control how playback is processed. These fields should only be changed in the event of problems with playback using the default settings. Consult SoniClear support for assistance if this happens.

#### Monitor Delay

Monitor Delay should be set to the default of 3 seconds.

#### Force Recording at 44.1KHz.

This field should be set to Checked.