

# Quick Start Guide

EN

ES

FR

DE

PT

IT

NL

SE

PL

JP

CN





## X AIR XR16/XR12


16/12-Input Digital Mixer for iPad/Android Tablets with  
8/4 Programmable Midas Preamps, 8 Line Inputs,  
Integrated Wifi Module and USB Stereo Recorder


EN


**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.



17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

18. Do not install in a confined space, such as a book case or similar unit.

19. Do not place naked flame sources, such as lighted candles, on the apparatus.

20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed of at a battery collection point.

21. This apparatus may be used in tropical and moderate climates up to 45°C.

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**ES Instrucciones de seguridad**

 Las terminales marcadas con este símbolo transportan corriente eléctrica de magnitud suficiente como para constituir un riesgo de descarga eléctrica. Utilice solo cables de altavoz profesionales y de alta calidad con conectores TS de 6,3 mm o de bayoneta prefijados. Cualquier otra instalación o modificación debe ser realizada únicamente por un técnico cualificado.

 Este símbolo, siempre que aparece, le advierte de la presencia de voltaje peligroso sin aislar dentro de la caja; este voltaje puede ser suficiente para constituir un riesgo de descarga.

 Este símbolo, siempre que aparece, le advierte sobre instrucciones operativas y de mantenimiento que aparecen en la documentación adjunta. Por favor, lea el manual.

**Atención**

Para reducir el riesgo de descarga eléctrica, no quite la tapa (o la parte posterior). No hay piezas en el interior del equipo que puedan ser reparadas por el usuario. Si es necesario, póngase en contacto con personal cualificado.

**Atención**

Para reducir el riesgo de incendio o descarga eléctrica, no exponga este aparato a la lluvia, humedad o alguna otra fuente que pueda salpicar o derramar algún líquido sobre el aparato. No coloque ningún tipo de recipiente para líquidos sobre el aparato.

**Atención**

Las instrucciones de servicio deben llevarlas a cabo exclusivamente personal cualificado. Para evitar el riesgo de una descarga eléctrica, no realice reparaciones que no se encuentren descritas en el manual de operaciones. Las reparaciones deben ser realizadas exclusivamente por personal cualificado.

1. Lea las instrucciones.
2. Conserve estas instrucciones.
3. Preste atención a todas las advertencias.
4. Siga todas las instrucciones.
5. No use este aparato cerca del agua.
6. Limpie este aparato con un paño seco.
7. No bloquee las aberturas de ventilación. Instale el equipo de acuerdo con las instrucciones del fabricante.
8. No instale este equipo cerca de fuentes de calor tales como radiadores, acumuladores de calor, estufas u otros aparatos (incluyendo amplificadores) que puedan producir calor.
9. No elimine o deshabilite nunca la conexión a tierra del aparato o del cable de alimentación de corriente. Un enchufe polarizado tiene dos polos, uno de los cuales tiene un contacto más ancho que el otro. Una clavija con puesta a tierra dispone de tres

contactos: dos polos y la puesta a tierra. El contacto ancho y el tercer contacto, respectivamente, son los que garantizan una mayor seguridad. Si el enchufe suministrado con el equipo no concuerda con la toma de corriente, consulte con un electricista para cambiar la toma de corriente obsoleta.

10. Coloque el cable de suministro de energía de manera que no pueda ser pisado y que esté protegido de objetos afilados. Asegúrese de que el cable de suministro de energía esté protegido, especialmente en la zona de la clavija y en el punto donde sale del aparato.

11. Use únicamente los dispositivos o accesorios especificados por el fabricante.



12. Use únicamente la carretilla, plataforma, trípode, soporte o mesa especificados

por el fabricante o suministrados junto con el equipo. Al transportar el equipo, tenga cuidado para evitar daños y caídas al tropezar con algún obstáculo.

13. Desenchufe el equipo durante tormentas o si no va a utilizarlo durante un periodo largo.

14. Confíe las reparaciones únicamente a servicios técnicos cualificados. La unidad requiere mantenimiento siempre que haya sufrido algún daño, si el cable de suministro de energía o el enchufe presentaran daños, se hubiera derramado un líquido o hubieran caído objetos dentro del equipo, si el aparato hubiera estado expuesto a la humedad o la lluvia, si ha dejado de funcionar de manera normal o si ha sufrido algún golpe o caída.

15. Al conectar la unidad a la toma de corriente eléctrica asegúrese de que la conexión disponga de una unión a tierra.

16. Si el enchufe o conector de red sirve como único medio de desconexión, éste debe ser accesible fácilmente.

EN

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# X AIR XR16/XR12 Hook-up

**EN Step 1: Hook-Up**

**ES Paso 1: Conexión**

**FR Etape 1 : Connexions**

**DE Schritt 1: Verkabelung**

**PT Passo 1: Conexões**

**IT Passo 1: Allacciare**

**NL Stap 1: Aansluiten**

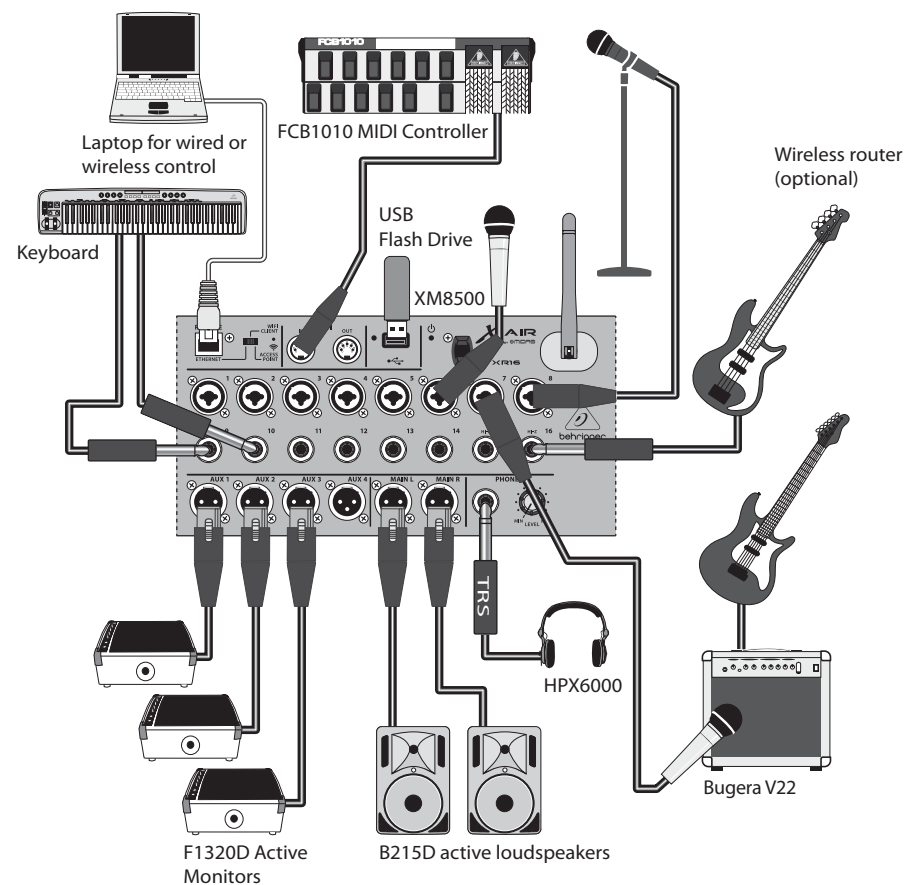
**SE Steg 1: Anslutning**

**PL Krok 1: Podłączeni**

**JP ステップ 1: フックアップ**

**CN 第一步: 连接应用**

*X AIR 16 club performance*  
*X AIR 16 para actuación en un club*  
*X AIR 16 concert dans un club*  
*X AIR 16 Club-Performance*  
*X AIR 16 club performance*  
*X AIR 16 per concerto in club*  
*X AIR 16 clubprestaties*  
*X AIR 16 klubbprestanda*  
*Klubowy występ X AIR 16*  
*X AIR 16 クラブ・パフォーマンス*  
*X AIR 16 俱乐部演出*



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# X AIR XR16/XR12 Hook-up

## EN Step 1: Hook-Up

## ES Paso 1: Conexión

## FR Etape 1 : Connexions

## DE Schritt 1: Verkabelung

## PT Passo 1: Conexões

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## NL Stap 1: Aansluiten

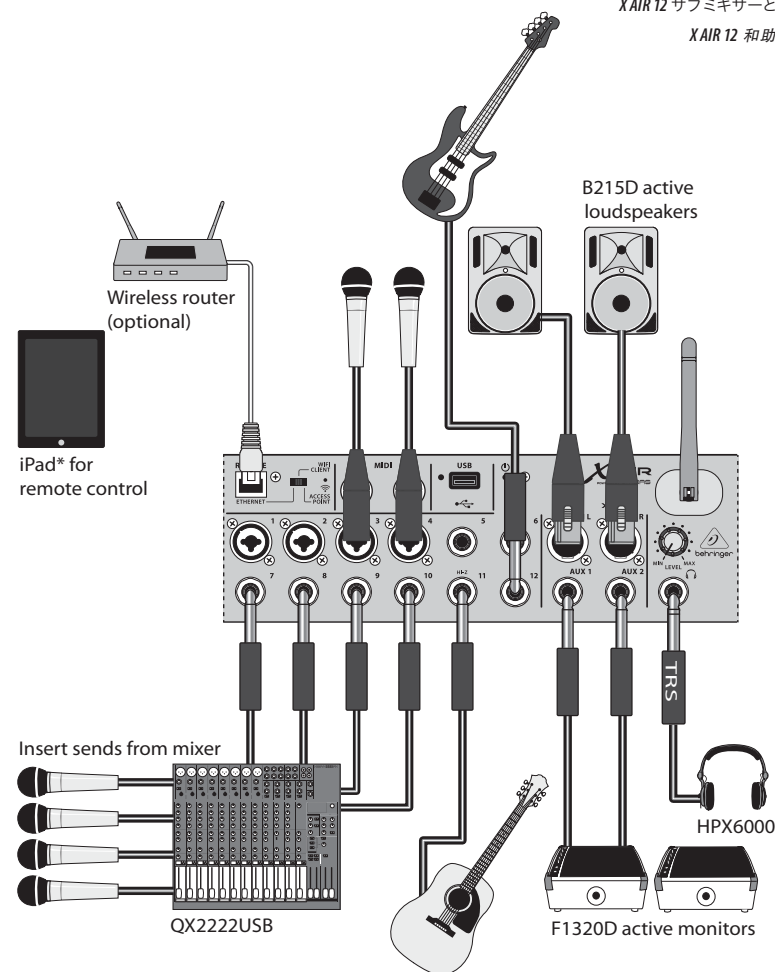
## SE Steg 1: Anslutning

## PL Krok 1: Podłączeni

## JP ステップ 1: フックアップ

## CN 第一步: 连接应用

X AIR 12 with sub mixer  
 X AIR 12 con submezclador  
 X AIR 12 avec sous-groupe de mixage  
 X AIR 12 mit Submischer  
 X AIR 12 com sub mixer  
 X AIR 12 con sub mixer  
 X AIR 12 met submixer  
 X AIR 12 med underblandare  
 X AIR 12 z sub-mikserem  
 X AIR 12 サブミキサーとの使用  
 X AIR 12 和助调音台



\*iPad is a trademark of Apple, Inc. iPad not included.

# X AIR XR16/XR12 Hook-up

## EN Step 1: Hook-Up

## ES Paso 1: Conexión

## FR Etape 1 : Connexions

## DE Schritt 1: Verkabelung

## PT Passo 1: Conexões

## IT Passo 1: Allacciare

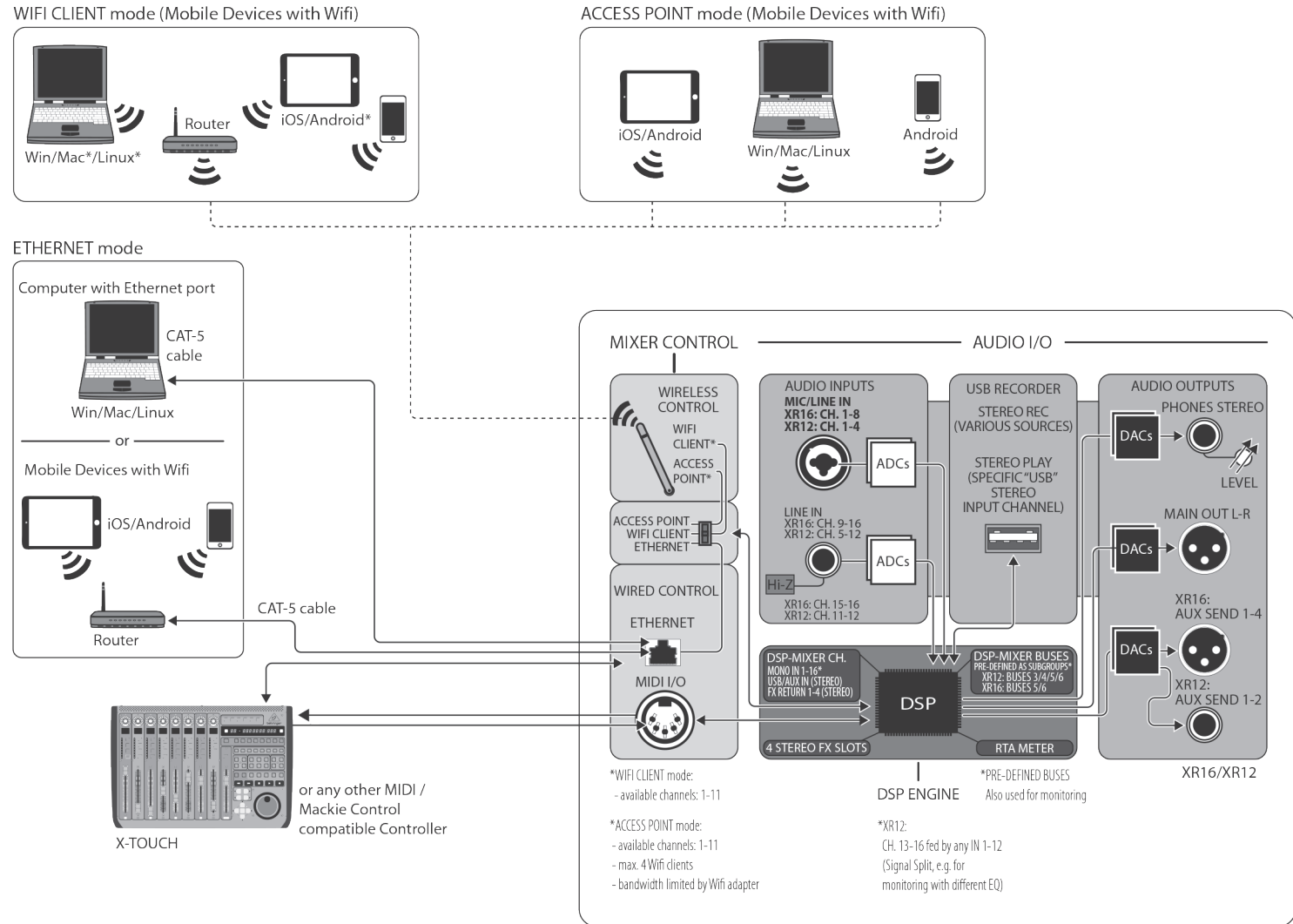
## NL Stap 1: Aansluiten

## SE Steg 1: Anslutning

## PL Krok 1: Podłączeni

## JP ステップ 1: フックアップ

## CN 第一步: 连接应用

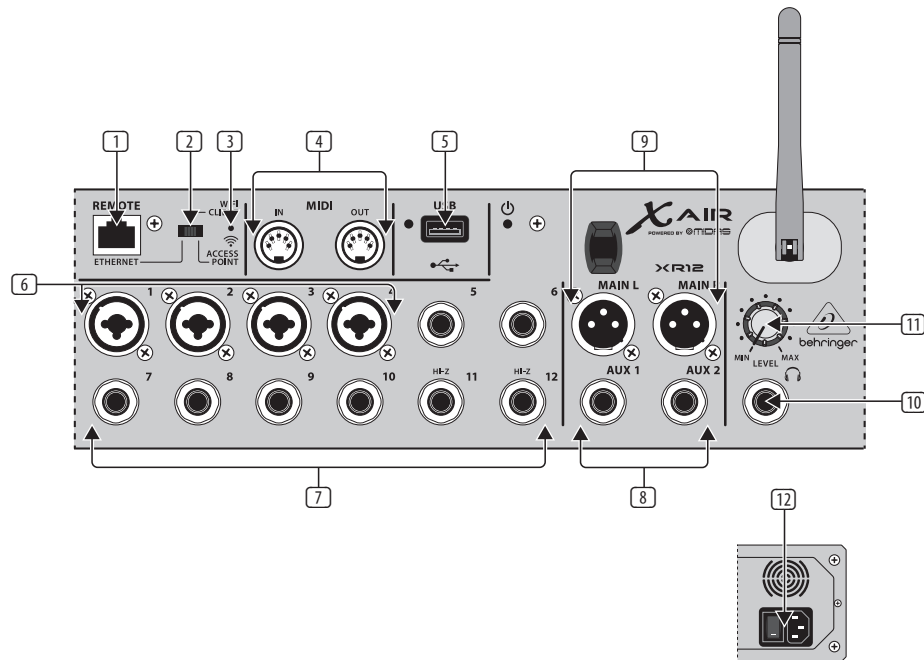
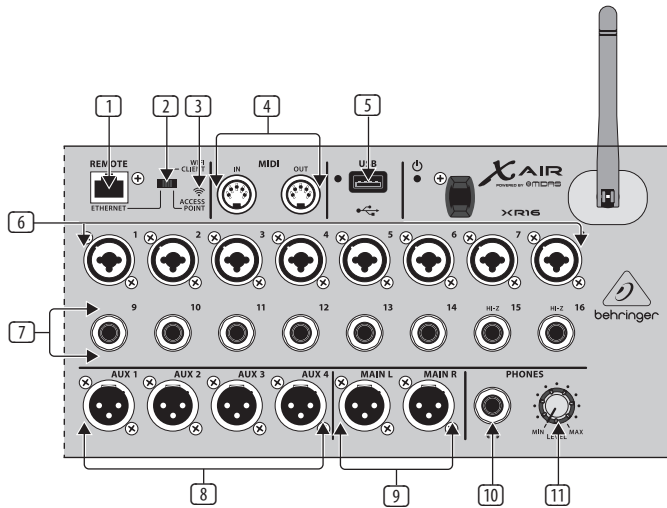


\*Mac is a trademark of Apple, Inc. Linux is the registered trademark of Linus Torvalds in the U.S. and other countries. Android is a trademark of Google, Inc.

# X AIR XR16/XR12 Controls

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## EN Step 2: Controls



- 1 **ETHERNET** port allows the mixer to be controlled via LAN or connected Wifi router.
- 2 **REMOTE** switch selects between Ethernet, Wifi client, or Access Point. See the Network Connection chapter for details.
- 3 **RESET** button resets the console to default network parameters when held for 2 seconds. When held for 10 seconds, all console functions are reset to factory default status.
- 4 **MIDI IN/OUT** jacks send and receive MIDI signals to and from external equipment. See the MIDI Implementation chart for details.
- 5 **USB** port (type A) accepts a flash drive for file storage, stereo recordings and playback. The red LED next to it indicates file access. Do not remove the USB flash drive while it is lit!
- 6 **XLR COMBO** jacks accept balanced and unbalanced XLR and 1/4" plugs.
- 7 1/4" inputs accept balanced or unbalanced 1/4" plugs. Channel 15 and 16 on the XR16 (channel 11 and 12 on the XR12) accept high impedance sources for direct connection of guitars and basses.
- 8 **AUX SEND** jacks send your monitor mixes to stage monitors or headphone mixers. The XR16 uses XLR connectors while the XR12 uses balanced 1/4" jacks.
- 9 **MAIN L/R** jacks send the main mix signal to PA or monitor speakers via XLR cables.
- 10 **HEADPHONE** jack accepts a 1/4" TRS plug for connecting a pair of headphones.
- 11 **PHONES LEVEL** knob determines the output of the headphones jack.
- 12 **POWER** switch turns the mixer on and off. The front panel LED will light when the unit is powered on.

# X AIR XR16/XR12 Network Connection

## EN Step 3: Network Connection

### Network Connection

The X AIR mixers eliminate all hassles by incorporating a wireless network router that gives access to the mixer in three different ways—via Ethernet LAN, or wirelessly as a Wifi Client or as an Access Point. Selection is made with the REMOTE switch [2]. You may view or change the network preferences for these on any of the X AIR remote control applications on the 'Setup/Network' page.

### IP Address and DHCP

Depending on the connection scenario, the XR16/XR12 offers up to 3 options for connecting a tablet or PC for software control – DHCP Client, DHCP Server, and fixed IP operation. Connection is achieved differently depending on which option you choose:

DHCP Client mode is available in Ethernet LAN or Wifi Client operation. The mixer will automatically request an IP lease from the DHCP server that owns the IP addresses in the network to which you are trying to connect.

DHCP Server (DHCPs) is optionally available for Ethernet LAN connections and is standard in Access Point operation. The mixer will own the IP addresses and provide IP leases to devices requesting access to that network. The mixer will always use IP address 192.168.1.1 and assign IP addresses 192.168.1.101 – 192.168.1.132 to its clients.

Static IP is available for Ethernet LAN and Wifi Client operation. The mixer will use the fixed (static) IP address, subnet mask and gateway that you specify for registering on the network. Make sure that the addresses you specify manually are not conflicting with any other addresses on the same network. We generally recommend using the DHCP mode, unless you have a very specific reason to set it up manually.

**Note:** Changing parameters of the currently selected connection mode will disconnect the software from the console. If the console is erroneously configured for a fixed IP address that is incompatible with the network it is connected to, the console will be inaccessible. In this case, one of the other two connection modes can be used to regain access and amend the settings. If that does not work, hold the Reset button for 2 seconds to return to default network settings.



### Mixer name and Ethernet setup screen

#### Ethernet/LAN

This mode supports DHCP Client (default), DHCP Server, and fixed IP operation.

Note that if the XR16/XR12 is connected to a network where no DHCP server is present, the mixer will generate an automatic IP address (range 169.254.1.0 – 169.254.254.255). There are no security options for LAN connections, so any device in that network may take control of connected XR16/XR12 consoles. When connecting via LAN/Ethernet to a Wifi router, make sure the security settings of that router prevent unauthorized access.



### Wifi Client setup screen

#### Wifi Client

This mode supports DHCP Client (default) and fixed IP operation. The XR16/XR12 can support WEP, WPA and WPA2 security mechanisms in Wifi Client mode and works on Wifi channels 1-11.

Correct SSID (network name) and password need to be supplied to connect to an existing network. WEP passwords have to be either 5 characters or 13 characters long. If the supplied SSID and password are incorrect, the mixer cannot be accessed. In this case the networking parameters have to be reset and another connection mode has to be used to regain access.

The Ethernet connection mode may be used for configuration of the Wifi Client mode. While being connected in Ethernet mode, the X AIR mixer can scan the available wireless networks and display their SSID network names, field strength and security method. By selecting the preferred wireless network, this information can be copied to the applications' Wifi Client setup page automatically. You will then be prompted to fill in the security password of that network. After switching from Ethernet to Wifi Client mode, the mixer should connect to the selected wireless network automatically, and will be displayed by remote applications on any device connected to the same network.



### Access Point setup screen

#### Access Point

This mode only supports DHCP Server operation with a maximum of 4 clients, working on Wifi channels 1-11. Security is supported via WEP 40-bit (5 ASCII characters) or WEP 104-bit (13 ASCII characters). By default, the mixer will use a network name consisting of the model name plus the last bits of the mixer's unique MAC address (e.g. XR16-17-BE-C0). The default IP address is 192.168.1.1 and no security is engaged.

The control software is available for Android and iPad tablets as well as PC/Mac/Linux computers. Visit [behringer.com](http://behringer.com) to download the PC/Mac/Linux software. The tablet software can be downloaded from the app store on your device.

To learn more about operating the control software, visit the product page on [behringer.com](http://behringer.com) to download the full manual.

# X AIR XR16/XR12 Network Connection

## EN Step 3: Network Connection

### Getting Started

#### First Wifi remote connection to your X AIR mixer

- Download and install the remote control app for your device.
  - Android smartphones/tablets: X AIR Android from the Google Play\* store
  - iPad: X AIR for iPad from the App Store
  - PC: X AIR EDIT for Windows\*, Mac or Linux from behringer.com
- Set the REMOTE switch on your X AIR mixer to ACCESS POINT mode and power on the mixer.
- Reset your X AIR mixer's network settings to default values by holding the RESET button for 2 seconds. This is located in the small hole above the Wifi icon and requires a paper clip or similar tool to reach.
- Switch your remote control device on and open the network settings.

### Android smartphones/tablets:

- Start the Settings/Wireless & Networks dialog on your Android system.
- Switch 'Wifi' on.
- Click on 'Wifi' to select a network. From the list of networks, select your X AIR mixer's name, e.g. "XR16-19-1B-07". After a few seconds, the status should change to 'Connected'.
- Open your X AIR for Android app and it will show similar information:
  - Mix Access = All
  - IP Address = 192.168.1.1
  - Wifi Lock = None
  - Wifi connected to XR16-19-1B-07
- You may choose to lock the connection to this specific Wifi network if you want to ensure that your device cannot automatically connect to another network while you are controlling your mixer.
- Click on 'Connect' and tap on the mixer's name in order to connect the app with your mixer. Note - if a warning pops up telling you that the mixer firmware is not supported, it is recommended to update the firmware to the latest version (see the XR16/XR12 pages on behringer.com for details). You can, however, choose to connect anyway.
- Once the app is connected to your mixer, all parameters will be loaded automatically. Enjoy exploring all mixing functions of your X AIR mixer remotely!

### iPad:

- Start the Settings/Wifi dialog on your iOS.
- Switch 'Wifi' on.
- Select your X AIR mixer's name from the list of networks, e.g. "XR16-19-1B-07". After a couple of seconds, the status should change to 'Connected', indicated by a check mark.
- Open your X AIR for iPad app and it will show any X AIR mixers ('Devices') found in that network, with their IP address, which in this case is 192.168.1.1.
- Tap on the mixer's icon to connect the app with your mixer. Note - if a warning pops up telling you that the mixer firmware is not supported, it is recommended to update the firmware to the latest version (see the XR16/XR12 pages on behringer.com for details). You can, however, choose to connect anyway.
- Once the app is connected to your mixer, all parameters will be loaded automatically. Enjoy exploring all mixing functions of your X AIR mixer remotely!

### PC: X AIR EDIT for Windows, Mac or Linux

- Open the Wireless Network Connections dialog on your operating system.
- Make sure the 'WLAN' or 'Wifi' adapter is switched on.
- View the list of wireless networks and select your X AIR mixer's name, e.g. "XR16-19-1B-07". After a couple of seconds, the status should change to 'Connected', indicated by a check mark.
- Open your X AIR Editor for Win/Mac/Linux and click on 'Setup'. The list will show any X AIR mixers found in that network, with their name and IP address, which in this case is 192.168.1.1.
- Click on your mixer's name, e.g. "XR16-19-1B-07", and confirm to synchronize from mixer to PC in order to connect the app with your mixer. If a warning pops up telling you that the mixer firmware is not supported, it is recommended to update the firmware to the latest version (see the XR16/XR12 pages on behringer.com for details). You can, however, choose to connect anyway.
- Once the app is connected to your mixer, all parameters will be transferred automatically. Enjoy exploring all mixing functions of your X AIR mixer remotely!

# X AIR XR16/XR12 USB Recorder

## EN Step 4: USB Recorder

## ES Paso 4: Grabadora USB

## FR Étape 4 : Enregistreur USB

## DE Schritt 4: USB-Recorder

## PT Passo 4: Gravador USB

## IT Passo 4: Registratore USB

## NL Stap 4: USB-recorder

## SE Steg 4: USB-inspelare

## PL Krok 4: Rejestrator USB

## JP ステップ 4: レコーダ

## CN 第四步: 网络连接

**EN** The USB port (type A) accepts a flash drive for file storage, stereo recordings and playback. The operation is remote controlled via X AIR apps.

1. Supported file system: FAT32.
2. Supported audio file format: WAV, 16-bit, 44.1 or 48.0 kHz – depending on mixer sample rate.
3. Maximum recording time: approx. 3 hours for each file, with a file size limit of 2 GB.

It is recommended to do a test recording after formatting the USB drive.

**ES** El puerto USB (tipo A) admite un dispositivo flash para el almacenamiento de ficheros, así como para la grabación y reproducción stereo. Su funcionamiento es controlado de forma remota a través del app X AIR.

1. Sistema de ficheros admitido: FAT32.
2. Formato de ficheros audio admitidos: WAV, 16 bits, 44.1 ó 48.0 kHz – dependiendo de la frecuencia de muestreo del mezclador.
3. Tiempo de grabación máximo: aprox. 3 horas para cada fichero, con un límite máximo de tamaño de 2 GB.

Le recomendamos que realice una prueba de grabación después de formatear el dispositivo USB.

**FR** Le port USB (type A) permet de connecter une clé USB pour stocker, enregistrer en stéréo et lire des fichiers. L'appareil est contrôlé à distance par l'application X AIR.

1. Système de fichiers supporté : FAT32.
2. Format des fichier audio supporté : WAV, 16 bits, 44,1 ou 48,0 kHz – dépend de la fréquence d'échantillonnage de la console.

3. Temps d'enregistrement maximum : approx. 3 heures pour chaque fichier, dans une limite de 2 Go.

Il est recommandé d'effectuer un test d'enregistrement après avoir formaté la clé USB.

**DE** Der USB-Port (Typ A) akzeptiert ein USB-Speichermedium zur Datenspeicherung, Stereo-Aufnahme und -Wiedergabe. Der Betrieb wird via X AIR Apps ferngesteuert.

1. Unterstütztes Dateisystem: FAT32.
2. Unterstütztes Audiodateiformat: WAV, 16-Bit, 44,1 oder 48,0 kHz – abhängig von der Mixer-Samplerate.
3. Maximale Aufnahmezeit: ca. 3 Stunden pro Datei. Die Dateigröße ist auf 2 GB beschränkt.

Nach dem Formatieren des USB-Speichermediums sollten Sie eine Testaufnahme durchführen.

**PT** A porta USB (tipo A) aceita um pen drive para armazenamento de arquivos, gravações de arquivo e playback. A operação é controlada remotamente através de apps X AIR.

1. Sistema de arquivo suportado: FAT32.
2. Formato de arquivo de áudio suportado: WAV, 16-bit, 44.1 ou 48.0 kHz – dependendo da taxa de amostragem do misturador.
3. Tempo máximo de gravação: aprox. 3 horas por arquivo, com um tamanho de arquivo limite de 2 GB.

Recomenda-se fazer uma gravação teste depois de formatar o drive USB.

**IT** La porta USB (tipo A) accetta un'unità flash per l'archiviazione di file, registrazioni stereo e riproduzione. L'operazione è controllata in remoto tramite le app X AIR.

1. File system supportato: FAT32.
2. Formato file audio supportato: WAV, 16-bit, 44.1 o 48.0 kHz – secondo la frequenza di campionamento del mixer.
3. Tempo massimo di registrazione: ca. 3 ore per ogni file, con un limite di dimensione del file di 2 GB.

Consigliamo di fare una registrazione di prova dopo aver formattato l'unità USB.

**NL** De USB-poort (type A) accepteert een flashstation voor het opslaan van bestanden, stereo-opnamen en afspelen. De bediening wordt op afstand bediend via X AIR-apps.

1. Ondersteund bestandssysteem: FAT32.
2. Ondersteunde audiobestandsindeling: WAV, 16-bit, 44,1 of 48,0 kHz - afhankelijk van de samplefrequentie van de mixer.
3. Maximale opnametijd: ca. 3 uur voor elk bestand, met een maximale bestandsgrootte van 2 GB.

Het wordt aanbevolen om een testopname te maken na het formatteren van de USB-drive.

**SE** -porten (typ A) accepterar ett flash-minne för fillagring, stereoinspelning och uppspelning. Funktionen fjärrstyrs via X AIR-appar.

1. Filsystem som stöds: FAT32.
2. Ljudfilformat som stöds: WAV, 16-bitars, 44,1 eller 48,0 kHz - beroende på mixerns samplingsfrekvens.
3. Maximal inspelningstid: ca. 3 timmar för varje fil, med en filstorleksgräns på 2 GB.

Vi rekommenderar att du gör en testinspelning efter formatering av USB-enheten.

**PL** Port USB (typ A) akceptuje pendrive do przechowywania plików, nagrań stereo i odtwarzania. Operacja jest zdalnie sterowana za pomocą aplikacji X AIR.

1. Obsługiwany system plików: FAT32.
2. Obsługiwany format plików audio: WAV, 16-bitowy, 44,1 lub 48,0 kHz - w zależności od częstotliwości próbkowania miksera.
3. Maksymalny czas nagrywania: ok. 3 godziny na każdy plik, przy maksymalnym rozmiarze 2 GB.

Po sformatowaniu dysku USB zaleca się wykonanie nagrania testowego.

**JP** USBポート (タイプ A) は、ファイルの保存、ステレオ録音および再生のためにフラッシュドライブを受け入れます。操作は X AIR アプリを介してリモートで制御されます。

1. お使いのオペレーション・対応ファイルシステム: FAT32.
2. 対応オーディオ・ファイル・フォーマット: WAV、16 ビット、44.1 または 48.0 kHz – ミキサーのサンプリングレートによります。
3. 最大録音時間: ファイルサイズ上限 2GB で、各ファイル約 3 時間。

USBドライブのフォーマット後、テスト録音をおこなうことをお勧めします。

**CN** USB 接口(A型)可接受闪存驱动器进行文件存储、立体声录音和回放。操作可通过 X AIR 应用进行远程控制。

1. USB 端口 (A 类型) 可插入闪存盘用于文件存储、立体声录音和重放。此操作通过 X AIR 应用程序远程控制。支持的文件系统: FAT32。
2. 支持的音频文件格式: WAV, 16-bit, 44.1 或 48.0 kHz – 取决于调音台采样率。
3. 最长录音时间: 每个文件约 3 小时, 文件大小限制为 2 GB。

建议在格式化 U 盘后做一个测试录音。

EN

ES

FR

DE

PT

IT

NL

SE

PL

JP

CN

# X AIR XR16/XR12 MIDI Implementation

## XR16/XR12 MIDI Implementation Chart

MIDI RX / TX	Channel	Command	CC No.	Value	Comment
<b>Snapshot</b>					
Snapshots	1	Prg Chg	1-64		Program Changes 1-64 on Channel 1 can be used to recall snapshots 1-64 stored inside X AIR mixers.
<b>Fader</b>					
CH Faders	1	CC	0-15	0/127	Input Channels
CH Faders	1	CC	16	0/127	USB Recorder Playback (stereo)
CH Faders	1	CC	17-20	0/127	FX1-4 Return (stereo)
Send Faders	1	CC	21-26	0/127	Aux Sends / Subgroups
Send Faders	1	CC	27-30	0/127	FX 1-4 Send
Main Fader	1	CC	31	0/127	Main LR (stereo)
<b>Mute</b>					
CH Mutes	2	CC	0-15	0/127	Input Channels
CH Mutes	2	CC	16	0/127	USB Recorder Playback (stereo)
CH Mutes	2	CC	17-20	0/127	FX 1-4 Return (stereo)
Send Mutes	2	CC	21-26	0/127	Aux Sends / Subgroups
Send Mutes	2	CC	27-30	0/127	FX 1-4 Send
Main Mute	2	CC	31	0/127	Main LR (stereo)
<b>Panorama/Balance</b>					
CH PAN	3	CC	0-15	1...127	Panorama Input Channels; value 64 = center
CH PAN	3	CC	16	1...127	Balance USB Recorder Playback (stereo); value 64 = center
CH PAN	3	CC	17-20	1...127	Balance FX 1-4 Return (stereo); value 64 = center
Aux / Sub Pan	3	CC	21-26	1...127	Panorama Aux Sends / Subgroups; value 64 = center
Main Bal	3	CC	31	1...127	Balance Main LR (stereo); value 64 = stereo
<b>X OSC</b>					
Text based OSC		SYX			Open Sound Control via Sysex F0 00 20 32 32 TEXT F7  With 'TEXT' being OSC strings in hex format, up to 39 kB in length

# Specifications

## X AIR Mixer Series Specifications

	XR16	XR12
<b>Processing</b>		
Number of processing channels	16 input channels, 1 stereo USB return channel, 4 stereo FX return channels, 6 aux buses, main LR	16 input channels, 1 stereo USB return channel, 4 stereo FX return channels, 6 aux buses, main LR
Internal effects engines	4 true stereo	4 true stereo
Signal processing	40-bit floating point	40-bit floating point
A/D-D/A conversion (Cirrus Logic A/D CS5368, D/A CS4385)	24-bit @ 44.1 / 48 kHz, 114 dB dynamic range	24-bit @ 44.1 / 48 kHz, 114 dB A/D dynamic range
Analog I/O latency*	0.8 ms	0.8 ms
<b>Connectors</b>		
Programmable mic preamps, designed by Midas	8 XLR/TRS combo jacks, balanced	4 XLR/TRS combo jacks, balanced
Line inputs	8 TRS, balanced	8 TRS, balanced
Main outputs	2 XLR, balanced	2 XLR, balanced
Aux outputs	4 XLR, balanced	2 TRS, balanced
Phones outputs	1 TRS	1 TRS
MIDI inputs / outputs	1/1 DIN	1/1 DIN
Ethernet	1 RJ45	1 RJ45
USB port	Type A	Type A
<b>Mic Input Characteristics</b>		
Preamp design	Midas	Midas
THD + noise, 20 dB gain, 0 dBu out	< 0.005%, A-weighted	< 0.005%, A-weighted
Phantom power, switchable per input	48 V	48 V
Equivalent input noise level, XLR (input shorted)	-128 dBu, A-weighted	-128 dBu, A-weighted
CMRR, XLR, @ 20 dB gain (typical)	>60 dB	>60 dB
CMRR, XLR, @ 40 dB gain	>65 dB	>65 dB
<b>Input/Output Characteristics</b>		
Frequency range, @ 48 kHz sample rate, 0 dB to -1 dB	10 Hz - 22 kHz	10 Hz - 22 kHz
Dynamic range, analog mic in to analog out (typical)	105 dB	104 dB
A/D dynamic range, mic preamp to converter (typical)	109 dB	109 dB
D/A dynamic range, converter and output	108 dB	108 dB
Cross talk rejection @ 1 kHz, adjacent channels	90 dB	90 dB
Mic input impedance XLR jack, unbal. / bal.	5 kΩ / 10 kΩ	5 kΩ / 10 kΩ
Non clip maximum input level, XLR	+23 dBu	+23 dBu
Hi-Z input impedance TRS jack, unbal. / bal.	1 MΩ / 2 MΩ	1 MΩ / 2 MΩ
Line input impedance TRS jack, unbal. / bal.	20 kΩ / 40 kΩ	20 kΩ / 40 kΩ
Non clip maximum input level, TRS	+21 dBu	+21 dBu

## X AIR Mixer Series Specifications

	XR16	XR12
<b>Output Characteristics</b>		
Output impedance, XLR, unbal. / bal.	50 Ω / 50 Ω	50 Ω / 50 Ω
Output level, XLR, nom./max.	+4 dBu / +16 dBu	+4 dBu / +16 dBu
Output impedance, TRS, unbal. / bal.	50 Ω / 50 Ω	50 Ω / 50 Ω
Output level, TRS, nom./max.	+4 dBu / +16 dBu	+4 dBu / +16 dBu
Phones output impedance / level	40 Ω / +35 dBm (stereo)	40 Ω / +35 dBm (stereo)
Residual noise level, XLR and TRS	-92 dBu, A-weighted	-92 dBu, A-weighted
<b>WLAN Module</b>		
Antenna	External, SMA connector, 50 Ω	External, SMA connector, 50 Ω
Access Point, number of clients	Max. 4	Max. 4
IEEE 802.11 b/g standard	2.4 GHz	2.4 GHz
Frequency Range	2,412-2,462 MHz	2,412-2,462 MHz
WLAN channels (Wifi Client, Access Point)	1-11 / 1-11	1-11 / 1-11
Max Output Power	19 dBm (802.11b) / 18 dBm (802.11g)	19 dBm (802.11b) / 18 dBm (802.11g)
<b>Power</b>		
Switch-mode power supply	Autorange 100-240 V, (50/60 Hz)	Autorange 100-240 V, (50/60 Hz)
Power consumption	30 W	30 W
<b>Physical</b>		
Standard operating temperature range	5°C – 45°C (41°F – 113°F)	5°C – 45°C (41°F – 113°F)
Dimensions	333 x 149 x 140 mm (13.1 x 5.9 x 5.5 in)	333 x 149 x 95 mm (13.1 x 5.9 x 3.7 in)
Weight	3.0 kg (6.6 lb)	2.4 kg (5.3 lb)

\* including all channel and bus processing, excluding insert effects

**Warning:** Operation of this equipment in a residential environment could cause radio interference.

## FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

**Behringer**

**X AIR XR16/XR12**

Responsible Party Name: **Music Tribe Commercial NV Inc.**

Address: **122 E. 42nd St.1,  
8th Floor NY, NY 10168,  
United States**

Email Address: **legal@musictribe.com**

**Contain FCC ID: W7OMRF24WG0MAMB**

**X AIR XR16/XR12**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

### Important information:

Changes or modifications to the equipment not expressly approved by Music Tribe can void the user's authority to use the equipment.

### Caution!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. Such modifications could void the user authority to operate the equipment.

FCC RF Radiation Exposure Statement:

- (1) This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- (2) This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 centimeters between the radiator and your body.



Hereby, Music Tribe declares that this product is in compliance with Directive 2014/53/EU, Directive 2014/30/EU, Directive 2014/35/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC.

Full text of EU DoC is available at <https://community.musictribe.com/>

EU Representative: Music Tribe Brands DK A/S

Address: Gammel Strand 44, DK-1202 København K, Denmark

UK Representative: Music Tribe Brands UK Ltd.

Address: 8<sup>th</sup> Floor, 20 Farringdon Street London EC4A 4AB, United Kingdom

We Hear You