

# Quick Start Guide

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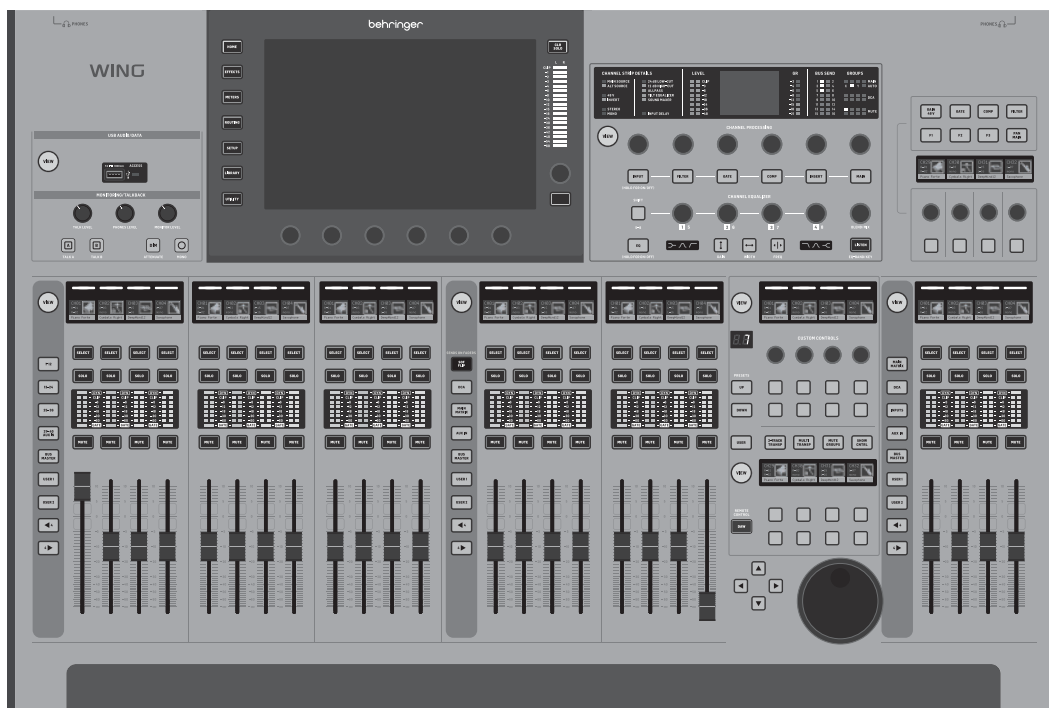
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## WING and WING-BK

48-Channel, 28-Bus Full Stereo Digital Mixing Console with 8-Midas PRO Preamps, 8 Midas PRO Outputs, 10" Touch Screen and 24-Fader Control Surface

behringer

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**EN Important Safety Instructions**

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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.



**Warning**  
Please refer to the information on the exterior of bottom enclosure for electrical and safety information before installing or operating the device.

1. Please read and follow all instructions and warnings.
2. Keep the apparatus away from water (except for outdoor products).
3. Clean only with dry cloth.
4. Do not block ventilation openings. Do not install in a confined space. Install only according to manufacturer's instructions.
5. Protect the power cord from damage, particularly at plugs and appliance socket.
6. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.

7. 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 (only for USA and Canada). 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.

8. Use only attachments and accessories recommended by the manufacturer.



9. Use only specified carts, stands, tripods, brackets, or tables. Use caution to prevent tip-over when moving the cart/apparatus combination.
10. Unplug during storms, or if not in use for

a long period.

11. Only use qualified personnel for servicing, especially after damage.

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

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

14. Avoid installing in confined spaces like bookcases.

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

16. Operating temperature range 5° to 45°C (41° to 113°F).

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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.



**Advertencia**  
Consulte la información en el exterior del recinto inferior para obtener información eléctrica y de seguridad antes de instalar u operar el dispositivo.

1. Por favor, lea y siga todas las instrucciones y advertencias.
2. Mantenga el aparato alejado del agua (excepto para productos diseñados para uso en exteriores).
3. Limpie solo con un paño seco.
4. No obstruya las aberturas de ventilación. No instale en un espacio confinado. Instale solo de acuerdo con las instrucciones del fabricante.

5. Proteja el cable de alimentación contra daños, especialmente en los enchufes y en el tomacorriente del aparato.

6. No lo instale cerca de fuentes de calor como radiadores, rejillas de calefacción, estufas u otros aparatos (incluyendo amplificadores) que generen calor.

7. No anule el propósito de seguridad del enchufe polarizado o del tipo con toma de tierra. Un enchufe polarizado tiene dos clavijas, una más ancha que la otra (solo para EE. UU. y Canadá). Un enchufe con toma de tierra tiene dos clavijas y una tercera clavija de toma de tierra. La clavija ancha o la tercera clavija se proporcionan para su seguridad. Si el enchufe suministrado no encaja en su toma de corriente, consulte a un electricista para reemplazar la toma obsoleta.

8. Utilice solo accesorios y accesorios recomendados por el fabricante.



9. Utilice solo carritos, soportes, trípodes, soportes o mesas especificados. Tenga cuidado para evitar que el carro/ combinación de aparatos se vuelque al moverlo.

10. Desenchufe durante tormentas o si no se utiliza durante un largo período.

11. Solo utilice personal cualificado para el servicio, especialmente después de daños.

12. El aparato con terminal de puesta a tierra protectora debe conectarse a un tomacorriente de red con una conexión de puesta a tierra protectora.

13. Cuando se utilice el enchufe de red o un acoplador de aparatos como dispositivo de desconexión, el dispositivo de desconexión debe seguir siendo fácilmente operable.

14. Evite la instalación en espacios confinados como estanterías.

15. No coloque fuentes de llama desnuda, como velas encendidas, en el aparato.

16. Rango de temperatura de funcionamiento de 5° a 45°C (41° a 113°F).

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**FR Consignes de sécurité**

Les points repérés par ce symbole portent une tension électrique suffisante pour constituer un risque d'électrocution.

Utilisez uniquement des câbles d'enceintes professionnels de haute qualité avec fiches Jack mono 6,35 mm ou fiches à verrouillages déjà installées. Toute autre installation ou modification doit être effectuée uniquement par un personnel qualifié.



Ce symbole avertit de la présence d'une tension dangereuse et non isolée à l'intérieur de l'appareil - elle peut provoquer des chocs électriques.



Ce symbol signale les consignes d'utilisation et d'entretien importantes dans la documentation fournie. Lisez les consignes de sécurité du manuel d'utilisation de l'appareil.



**Attention**  
Pour éviter tout risque de choc électrique, ne pas ouvrir le capot de l'appareil ni démonter le panneau arrière. L'intérieur de l'appareil ne possède aucun élément réparable par l'utilisateur. Laisser toute réparation à un professionnel qualifié.



**Attention**  
Pour réduire les risques de feu et de choc électrique, n'exposez pas cet appareil à la pluie, à la moisissure, aux gouttes ou aux éclaboussures. Ne posez pas de récipient contenant un liquide sur l'appareil (un vase par exemple).



**Attention**  
Ces consignes de sécurité et d'entretien sont destinées à un personnel qualifié. Pour éviter tout risque de choc électrique, n'effectuez aucune réparation sur l'appareil qui ne soit décrite par le manuel d'utilisation. Les éventuelles réparations doivent être effectuées uniquement par un technicien spécialisé.



**Avertissement**  
Veuillez vous référer aux informations situées à l'extérieur du boîtier inférieur pour obtenir les renseignements électriques et de sécurité avant d'installer ou d'utiliser l'appareil.

1. Veuillez lire et suivre toutes les instructions et avertissements.
2. Éloignez l'appareil de l'eau (sauf pour les produits conçus pour une utilisation en extérieur).
3. Nettoyez uniquement avec un chiffon sec.
4. Ne bloquez pas les ouvertures de ventilation. N'installez pas dans un espace confiné. Installez uniquement selon les instructions du fabricant.
5. Protégez le cordon d'alimentation contre les dommages, en particulier au niveau des fiches et de la prise de l'appareil.
6. N'installez pas près de sources de chaleur telles que radiateurs, registres de chaleur, cuisinières ou autres appareils (y compris les amplificateurs) qui produisent de la chaleur.
7. Ne contrecarrez pas le but de sécurité de la fiche polarisée ou de type mise à la terre. Une fiche polarisée a deux lames, l'une plus large que l'autre (uniquement pour les États-Unis et le Canada). Une fiche de type mise à la terre a deux lames et une troisième broche de mise à la terre. La lame large ou la troisième broche sont fournies pour votre sécurité. Si la fiche fournie ne s'adapte pas à votre prise, consultez un électricien pour remplacer la prise obsolète.
8. Utilisez uniquement des accessoires et des pièces recommandés par le fabricant.



9. Utilisez uniquement des chariots, des supports, des trépieds, des supports ou des tables spécifiés. Faites attention pour éviter le renversement lors du déplacement de la combinaison chariot/appareil.

10. Débranchez pendant les tempêtes ou si l'appareil n'est pas utilisé pendant une longue période.
11. Utilisez uniquement du personnel qualifié pour l'entretien, surtout après des dommages.
12. L'appareil avec une borne de mise à la terre protectrice doit être connecté à une prise secteur avec une connexion de mise à la terre protectrice.
13. Lorsque la fiche secteur ou un coupleur d'appareil est utilisé comme dispositif de déconnexion, le dispositif de déconnexion doit rester facilement utilisable.
14. Évitez l'installation dans des espaces confinés comme des bibliothèques.
15. Ne placez pas de sources de flamme nue, telles que des bougies allumées, sur l'appareil.
16. Plage de température de fonctionnement de 5° à 45°C (41° à 113°F).

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# WING and WING-BK Overview

## 1. Introduction

Congratulations on purchasing the ground-breaking WING console.

Read through this Quick Start Guide (QSG) to get an overview of WING's functionality and visit [behringer.com](http://behringer.com) for tutorial videos and guides.

### Before you start

It is recommended to check [behringer.com](http://behringer.com) for firmware updates, as new features and bug fixes will be released regularly. Please refer to Chapter 8 in this QSG for details about the update process.

Our development team is eager to read your feedback on [ideas.behringer.com](http://ideas.behringer.com) and surprise you with new improvements and features.

### SOURCE and Channel – a new routing approach

WING has introduced a new way of labeling signal SOURCES with names, icons and color together with their physical parameters. WING SOURCES can be fed into one or several channels for signal processing or routing to buses or main buses. They can also be patched directly to any physical output when no processing is desired, such as in recording setups, or when sharing audio with another console for independent mixes.

## 2. SOURCES, channels, buses and outputs

### External SOURCES

Any audio input into the console is called a SOURCE. An input can be an analog signal via the XLR or ¼" TRS connectors on the rear panel, or digital signals via StageConnect, USB, AES50, installed expansion cards, etc.

WING SOURCES include the following information:

- Identifying characteristics like name, color, icon, and tags
- Physical characteristics such as gain, mute, phase inversion and phantom power
- Mono/stereo/mid-side configuration. All 48 channels on the console can process either mono or stereo signals. Analog and digital stereo signals can be fed into a single channel in the console. See Chapter 6 – ROUTING for more information.

### Internal SOURCES

WING also features User Signals, User Patches and the Oscillator that can be used just as any external SOURCE, but they are in fact signals taken from other places in the console's audio engine.

### 2 Oscillators

There are two independent mono test tone generators that can be configured for sinewave, pink noise or white noise output. They can be routed to any channel or output.

### 24 User Signals

These are signals derived from any of the 40 input channels, 8 aux input channels, 16 buses, 8 matrices or 4 main buses. They can be tapped from the respective channel's pre- or post-fader tap points, and carry either the left or right channel, or a sum of both.

### 24 User Patches

These are also signals taken directly from any of the external SOURCE signals. User Patches allow you to create stereo combinations of raw input signals that don't belong to the same SOURCE Group. Possible applications are:

- Combining two signals from different SOURCE Group interfaces into a stereo or mid-side configuration
- Combining non-adjacent signals into a stereo or mid-side configuration
- Apply different gain to each channel of a stereo or mid-side configuration
- Apply phantom power to only one channel of a stereo or mid-side configuration

### 48 Mono/Stereo Input Channels

The channels on WING allow for extremely powerful and flexible processing of the SOURCE audio, before mixing them into buses or mains. Each Input Channel can accommodate a Main or an Alternative SOURCE. They can adopt the SOURCE's customization properties and automatically use the SOURCE's mono or stereo configuration.

Unlike with other consoles, there is no need for linking two mono channels into a stereo pair — all channels can process mono or stereo signals.

Channel audio can then be sent to buses or mains for mixing, or it can be tapped individually and routed to the outputs directly.

### 16 Stereo Buses and 4 Stereo Main Buses

The 16 buses are typically used for effects processing through sends, monitor mixes and applying group processing to sub mixes. Buses can be fed into the 4 main buses, to the first 8 buses or to the 8 matrices. The 4 main buses can only be sent to Matrices or Output destinations.

### 8 Matrix Buses

Matrix buses have full processing and can be sent to any Output destinations. They are often used for sub- or zone mixes that need processing or time alignment. Matrix buses can be driven by aux or main buses. They also feature two additional Direct Inputs that can be taken from any of the Input Channels, tapped pre- or post-fader.

Matrix buses can be used for creating so-called Mix-Minus buses, by phase inverting i.e. subtracting the Direct Inputs from the mix. This is often applied in broadcast situations, when a moderator should hear everything but his own voice in the mix. They can also be fed back into input channels.

## 3. Hardware Descriptions

### VIEW buttons

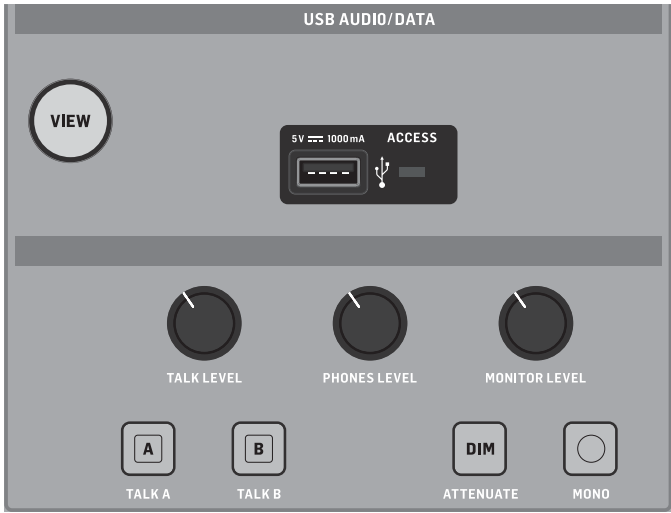


Pressing one of the VIEW buttons will switch the Main Display to a dedicated screen for the section the button was pressed on. The Main Display will often have additional parameters, options or information that is not accessible from the top panel alone. While active, each VIEW button will light green.

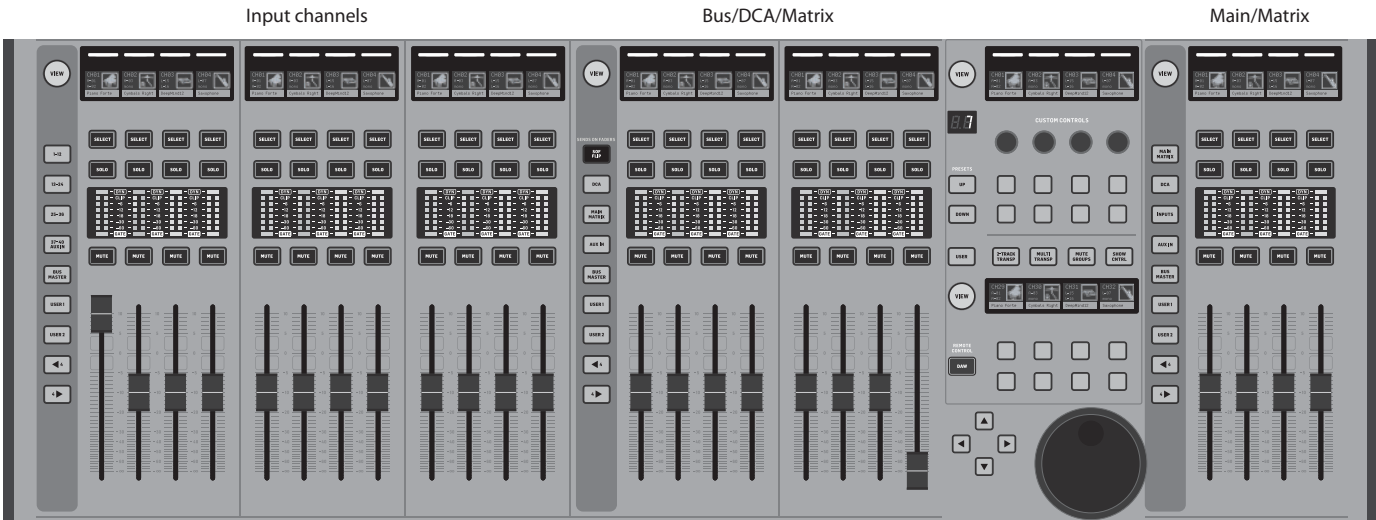
Some VIEW buttons support a press-and-hold function that accesses an additional setup page. For example, pressing and holding any of the fader bank VIEW buttons opens the edit screen where channels and buses can be rearranged on the fader layers.

The VIEW button for the Channel Strip section to the right of the Main Display will act in combination with the six processing buttons within that section (Input, Filter, Gate, Comp and Insert). These buttons act as shortcuts to the channel processing screens.

### Monitoring/Talkback/USB



### Fader Sections



The WING has three fader sections that each have their own associated bank buttons. The 12 faders to the left side of the console are commonly used for input Channels. The eight faders in the center typically control buses and DCAs, and the four faders to the right are usually reserved for main buses, matrix buses, or select input channels.

However, each bank can be configured according to the user's needs. To access the fader bank configuration, press and hold the VIEW button for one of the fader sections.

A USB type-A connector allows a flash drive to be plugged directly into the console for saving or loading data. This allows you to back up your show files or load your usual setup on a rented WING console.

This USB connection allows recording and playback of two- or four-channel-WAV audio files. The port can also charge a portable device such as a phone or tablet. Flash drives connected to the USB port can be disconnected whenever the ACCESS light has turned off.

Dedicated knobs control the headphone and monitor output level of the buses MONITOR A and MONITOR B, respectively, found in the SOURCE group "Monitor" in the ROUTING screen. Both stereo buses can be routed to any physical output.

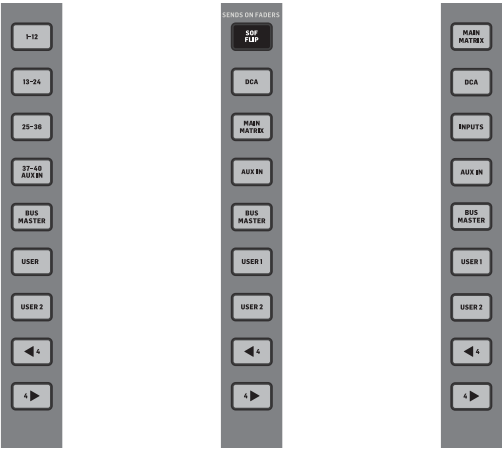
Engaging the DIM button reduces the monitor volume temporarily. The MONO button sums the monitor signal to mono. Holding the DIM button mutes the monitor. Holding the MONO button swaps left and right monitor signals. To use the headphone connectors on the console the monitor signals must be routed to the corresponding outputs (these are indicated with a headphone symbol on the output routing page, i.e. Aux 7/8 for a standard WING console).

The talkback mic level can be adjusted via the TALK LEVEL knob and TALK A and B buttons send the talkback signal to different destinations. Either Channel 40 or Aux 8 can be used as the processing channel for the talkback signal. Processing can be applied as needed. Any input can be assigned to the selected talkback channel.

Press the VIEW button to control the monitor settings, adjust the amount of Dim attenuation, setup the routing for the talkback mic, and other parameters.

# WING and WING-BK Overview

## Layer/Bank buttons



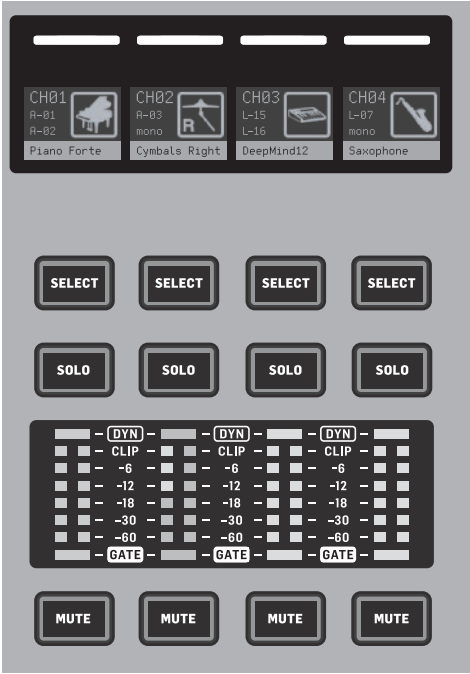
Selecting different fader banks will bring a new set of channels to the associated fader section. If a particular bank exceeds the amount of available physical faders in a section, the shift arrows will scroll in blocks of four (or 12 or 8 depending on setup configuration) channels to access the remaining ones. Each fader section also has two customizable banks. All faders in all banks can be assigned to any channel/bus/main/matrix and a lot of other functions and parameters.

Sends on Faders (SOF) is available to quickly adjust the channel’s send levels to a particular bus.

- Press the SOF FLIP button to activate Sends on Faders. The MUTE buttons on all sends (input channel fader strips) are active by default to protect buses in subgroup mode. You must unmute channels to send them to the selected bus.
- Make sure the BUS MASTERS button is lit in the bus fader section, then press one of the SELECT buttons to identify the bus to which channel signals will be sent.
- Raise the input channel faders for each of the channels that should be sent to that bus, navigating through the different input banks if necessary.
- Sends on Faders also works in the other direction by having a channel selected while SoF is active. The bus faders control the send level of the selected channel into the corresponding bus.
- When ‘ALTERNATIVE SOF MODE’ is selected in the setup/surface section, Sends on Fader will be enabled by holding a channel or bus SELECT button.

Disengage the SOF FLIP button when you want to return to normal mixing.

## Scribble strips, meters, SELECT



Each fader strip has a mini display screen called a scribble strip. This will indicate information about the current channel/bus number, name and an icon to quickly identify which channel is currently controlled by the fader and associated buttons.

A color bar above the scribble strip allows quick visual identification of groups of related channels. Scribble strip details and color bar options can be edited on the HOME screen of the selected channel, in the ICON/COLOR tab.

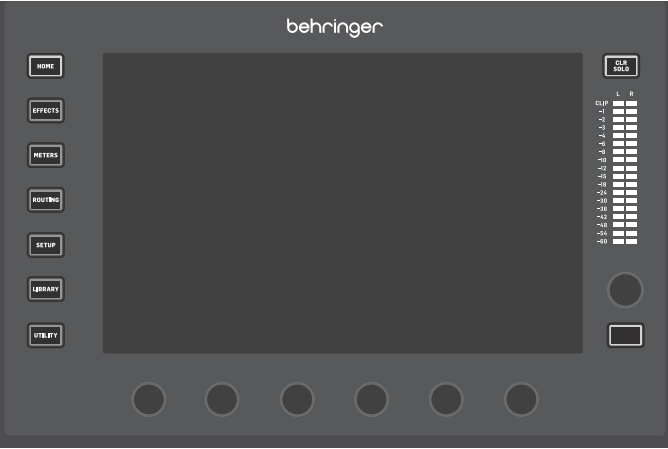
Channel signal SOURCE can also be indicated on the scribble strip when enabled (SETUP>SURFACE>SHOW SOURCE ON SCRIBBLE).

Pressing the SELECT button directs the control focus of the Main Display and Channel Strip section to that channel or bus. Only one SELECT button can be active at any time. Pressing SELECT again (when the channel is already selected) will return the display to the channel home or insert page of a bus (SETUP>SURFACE>SEL DBL CLICK) to quickly adjust channel or insert/effect parameters.

The SOLO button will isolate that channel for monitoring, along with any other channels or buses that are soloed. The MUTE button mutes the channel currently assigned to that strip.

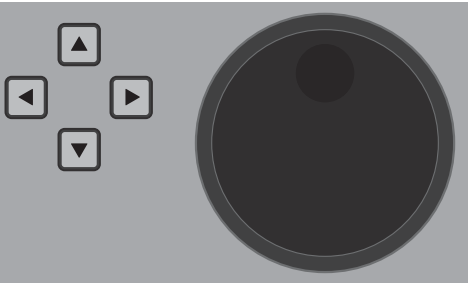
Stereo level meters provide input level information, from -60 dB to Clip. The DYNAMICS LED will light whenever the dynamic processor’s threshold is exceeded, triggering the compressor/expander. Likewise, the GATE LED will light whenever the input signal falls below the noise gate’s threshold.

## Main Display

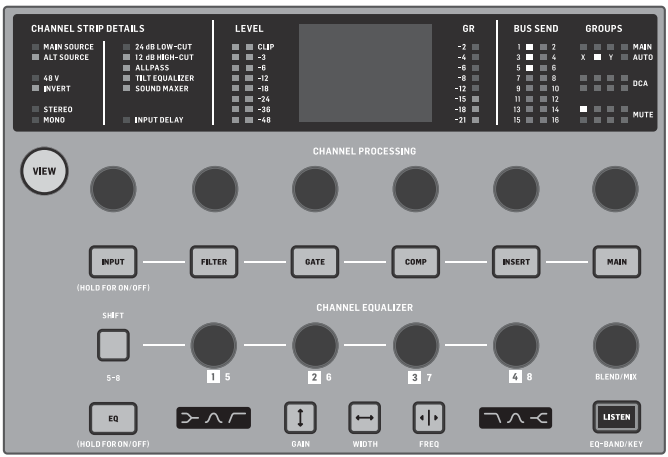


Most of WING’s controls can be edited via the 10" touch screen Main Display. The seven buttons to the left of the display and the VIEW buttons located in each major section of the top panel allow access to different settings screens. An overview of each screen is presented in Chapter 6.

The six knobs below the display allow parameter adjustments of the items shown at the bottom of the current screen. These are touch sensitive knobs that will highlight elements on the screen as soon as the associated knob is touched. An additional seventh knob to the right of the display can be used for context-dependent control by first touching an item on the Main Display, allowing for finer adjustments compared to moving virtual knobs or faders. A multi-purpose button beneath the seventh knob performs similarly depending on the current screen. For example, it can be used as a tap tempo when editing delay effects. The large stereo meter will either display the main bus or solo bus levels. The CLR SOLO button will release all channels and buses that are active in the solo bus. The navigation arrows and value/scrub wheel perform functions pertaining to DAW control as well as USB and SD recorders and players. The wheel can also fine-tune values of parameters assigned in the User layer of the Custom Controls while respective buttons are pressed When ‘USE CRSR/WHEEL FOR PARAMETERS’ is selected in SETUP/GENERAL, on-screen parameters can be selected with the cursor buttons while their values can be fine adjusted with the wheel.



## Channel Strip Section



The channel strip provides quick access to the primary parameters for the currently selected channel. A display screen provides dedicated editing details for the parameter being adjusted. LED indicators that display the input configuration, bus and group assignments, and level metering are always visible for convenience.

Each of the seven channel editing blocks (including EQ) can be shown on the editing display screen by pressing the associated button or touching the capacitive encoder knob directly above. Press and hold the button to turn the function on or off.

Pressing the VIEW button will open the main screen of the selected channel on the Main Display.

Once a function block is active, pressing the button again will scroll through the function’s parameters. Small dots in the lower right corner of the display indicate how many parameters can be scrolled through. The associated knob can be used for adjustments.

Many parameters can be scrolled through by repeatedly pressing the block button.

An additional EQ section has dedicated controls for adjusting up to six EQ bands for input channels and eight bands for buses. Engage the EQ block by pressing and holding the EQ button, then touch one of the 4 EQ encoder knobs to select a band for adjustment. Press the SHIFT button once to access the low and hi shelf bands or the additional bands if editing a bus EQ. The GAIN, WIDTH and FREQ buttons select which element of the current band will be adjusted with the knob. Press the LISTEN button in the lower right corner to monitor the EQ band in isolation. The BLEND/MIX knob acts as a wet/dry adjustment for the EQ block. When above 100%, this knob can be used to intensify the current EQ setting as it modifies each band’s gain according to the percentage set by the user.

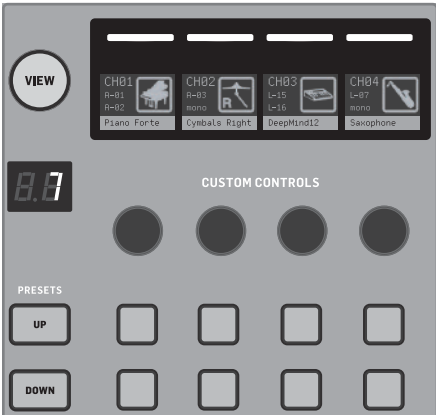
# WING and WING-BK Overview

## 4-Channel Section



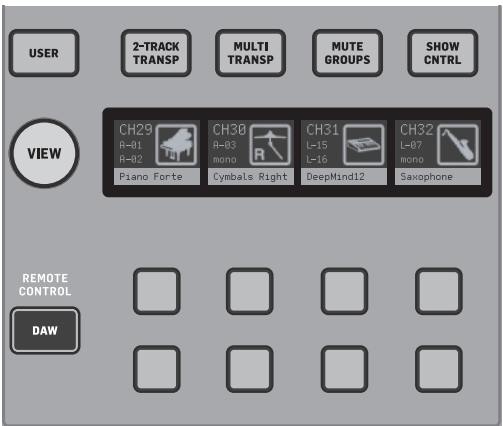
The edit section above the right-hand fader bank offers a special set of dedicated control elements. These can be parameters like gain, pan, filters or bus sends for the selected bank of four channels. Pressing one of the eight buttons enables the four knobs and four buttons to control channel properties without selecting the channel for editing. This makes the four channel section independent from the main control surface, and would allow for a second user to work on the console at the same time. F1-F3 controls can also be assigned to any custom control function when enabled in SETUP/SURFACE.

## 4. Custom Controls



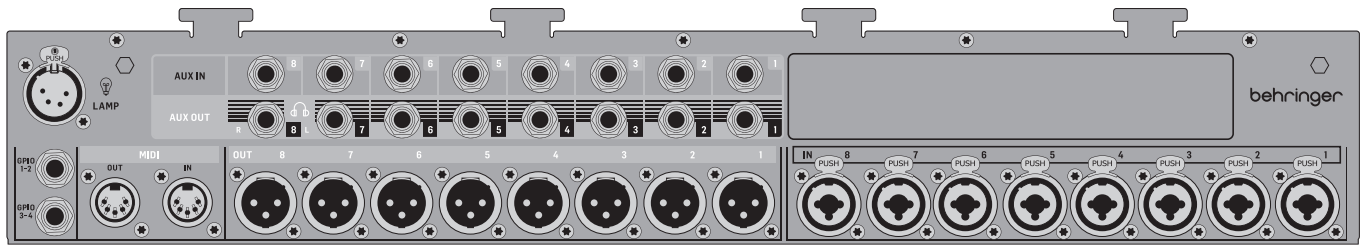
The Custom Controls section allows up to four rotary knobs and eight buttons to be assigned to specific elements that should be always available, regardless of the main display screen focus. Presets can also be configured to suit different sets, venues, operators, etc. Press the VIEW button to assign functions to the controls, optimize the scribble strips or reset the controls.

The bottom portion of the Custom Control section allows quick access to different categories. Press the VIEW button to configure each of them. It offers a combination of user-assignable buttons and pre-configured buttons for controlling the USB recorder, the WING-LIVE (SD card) recorder, Mute Groups and Show Control.



## 5. Rear Panel

### Analog I/O, MIDI and GPIO

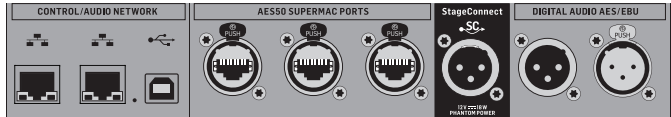


The rear panel analog connections include 8 Midas PRO microphone preamps, 8 XLR outputs, 8 balanced 1/4 inch TRS aux input and 8 balanced 1/4 inch TRS aux output connectors.

A lamp socket accepts a standard 12 V light.

5-pin MIDI IN and OUT jacks allow external MIDI control, and a pair of 1/4 inch TRS jacks for up to four GPIOs allow basic input and output commands

## ETHERNET/AES50/Control/StageConnect



A pair of Ethernet ports allow a network to be set up via router for wired or wireless control using one of the control apps on a computer or mobile device.

The console also can be connected to a computer via the USB type B connector for the following uses:

- 48 input/48 output audio interface. The corresponding ASIO driver can be downloaded from behringer.com.
- MIDI DAW controller
- Firmware updates
- Data exchange

3 AES50 ports each provide up to 48 input and output channels to and from digital stage boxes, ensuring a high channel count and allowing patching to and from multiple locations. The WING is fully compatible with all X32 series mixers and stage boxes.

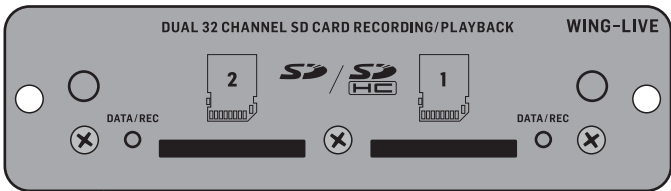
All AES50 connections between WING and stage boxes should have:

- Shielded CAT-5e cables
- Ethercon-terminated cable ends
- Maximum cable length of 80 meters

StageConnect transmits up to 32 digital audio input or output channels using a standard balanced XLR cable (110 Ohm impedance DMX-cable recommended). The interface supports different bus configurations of input and output channels and uses digital, uncompressed PCM audio at 44.1/48 kHz and 24-bit resolution. StageConnect was developed for flexible connections on stage or to a side rack, supporting a wide range of applications at sub-millisecond latency.

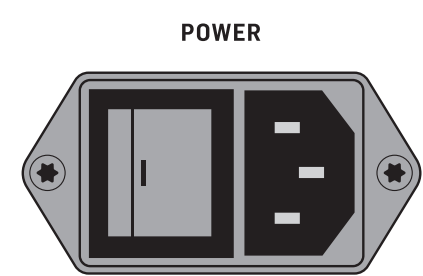
Stereo AES3 (AES/EBU) input and output connections can be made via XLR cables.

### Expansion Slot



The WING console ships with the WING-LIVE card installed, which allows up to 64 channels of 48 kHz / 32-bit audio to be recorded onto a pair of SD or SDHC cards. Cards with other protocols such as Dante, MADI and SoundGrid can be installed in this slot.

### Power



Connect the included IEC cable.

## 6. Main Screens

Most of the advanced editing and control is done on the Main Display. Screens can be navigated via the seven buttons to the left of the screen, or via VIEW buttons in each section of the top panel.

There are six screens accessible via the buttons next to the Main Display:

- HOME
- EFFECTS
- METERS
- ROUTING
- SETUP
- LIBRARY

Note that the UTILITY button does not have a specific screen related to it.

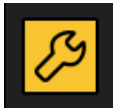
A status bar is displayed at the top of the screen to provide a quick reference for channel name, CLOCK, and alerts. This also allows constant access to the SD card controls, setup menu, library functions and other tools.

### HOME

#### HOME



The screen defaults to an overview of the selected channel. This screen allows adjustment of basic parameters like pan and level, but mostly provides a starting point to access important processing blocks like EQ and dynamics.



The processing sequence of the gate, dynamics, EQ, and insert sections, as well as the tap point for the signal sent to the 16 buses can be adjusted by clicking on the wrench icon on the bottom-left corner of the HOME screen and dragging the blocks.

# WING and WING-BK Overview

## INPUT

The INPUT screen appears second in the left-hand column. The primary and alternate SOURCE that is assigned to the current channel is selected here. Signals can be configured as mono, stereo or mid side with the corresponding M, ST and M/S buttons.



The FILTER screen is also a part of this section, allowing low cut, high cut and advanced filtering options like tilt filter and all-pass filter for phase alignment. Finally, the DELAY (POST) controls the delay applied to the channel output signal. This delay is necessary for the signals driving loudspeakers further away from the main PA, for instance.

## GATE

The GATE screen appears third in the left-hand column. The block defaults to a simple noise gate with common parameters like threshold and ratio, though other processors can be loaded on the Gate Model menu. This block's name will change to reflect the chosen model.

## EQ

This block defaults to a 6-band fully parametric equalizer for input channels, and an 8-band fully parametric equalizer for buses. A variety of digital and emulations of analog EQ models can be selected from the EQ Model menu.

## DYNAMICS

This block offers a large selection of digital and emulations of analog compressors, expanders and limiters.

## PRE FADER INSERT

Internal or external effects from one of the 16 FX slots can be inserted into the channel. It can be positioned before or after the Gate, EQ and/or Dynamics blocks.

## POST FADER INSERT

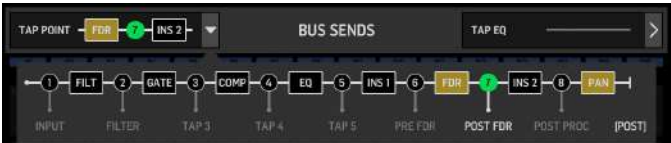
The second insert is fixed post-fader and post-processing. It can be used to add FX processing, or to control the channel level by one of 2 auto mixing groups that apply automatic gain-sharing across the assigned channels.

## MAIN

The screen allows the send level to each of the four main buses to be adjusted along with the stereo width, pan and channel fader level.

## BUS SENDS

The last screen in the left-hand column allows adjustment of send levels to all 16 buses. The tap point for each send can be set up using the dropdown menu on the top left-hand corner, or by clicking on the wrench icon on the HOME screen and moving the Tap. A three-band EQ is available for the signal sent from the tap point to the 16 buses.



The HOME screens have a similar appearance when a bus, main or matrix channel is selected, except no GATE block is available and only trim can be adjusted. On the INPUT screen, the bus send can be set to pre fader (according to the tap point setting) or post-fader if they will be used for monitoring or effects sends, or to subgroup if channels will be routed to the bus for common processing, prior to the main mix.

## EFFECTS



The EFFECTS screen controls all aspects of the effect processors. Users can select from a large collection of virtual emulation of analog processors, configure routing, adjust parameters and monitor levels.

The eight PREMIUM FX slots can accommodate every device (FX1-8, STD and CH categories). The STANDARD FX slots can accommodate STD and CH effect categories. Note that the CH category contains four channel devices which integrate three effect devices in a single slot, and a mastering device that integrates four.

Up to 16 devices can be loaded onto the slots on the EFFECTS screen. These devices can then be loaded as insert points. The analog emulations and digital effects available on the GATE, COMP and INS sections of each channel strip are loaded directly on each channel and not on the 16 slots of the EFFECTS screen. Effects are usually applied to channels in one of two ways: through bus sends or via insert points. Time-based effects like reverb and delay are usually set up via bus sends, whereas dynamic processing is usually set up via insert points.

## Effects on bus sends

To set up an effect via a bus send, one or multiple input channels are sent to a bus. There are multiple ways to achieve this. One way is to select the channel to which the effect will be added. Press the BUS MASTER and SOF FLIP buttons on the center fader section. The send levels from the selected channel to the first eight buses will be shown in the center fader section. To activate a send, unmute the desired channel and adjust the respective fader to the desired send level.

Alternatively, if a channel corresponding to a bus on the center section is selected, the left section of the console will show the send level of each input channel to the selected bus. Press the SOF FLIP button again to exit.

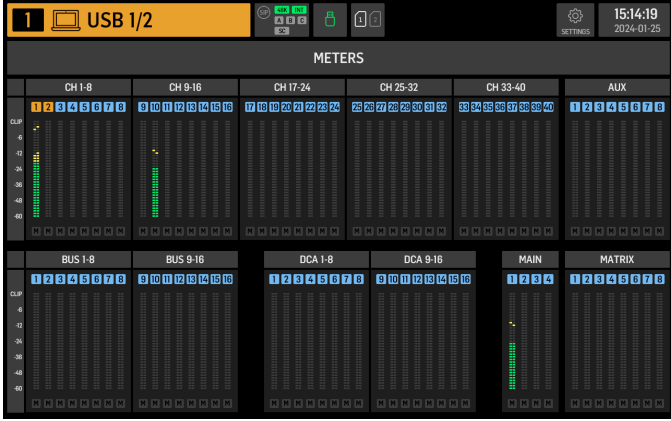
The insert point on the channel accommodating the bus is used to load the desired effect. Make sure this channel is routed to the main bus. By varying the amount of signal sent to the bus, the desired amount of “wet” effect signal for each input channel can be achieved.

## Effects as insert points

To set up an effect via an insert point, tap one of the INS blocks on the left-hand column of the desired input channel and assign an effect processor that was previously loaded on one of the 16 slots on the EFFECTS screen.

When on the HOME screen of an input channel, clicking on the wrench icon will allow the position of the first insert point as well as the GATE, COMP and EQ sections to be rearranged by dragging the yellow blocks.

## METERS



The METERS screen displays level meters and mute status for all the signal paths on the console. The level meters are grouped accordingly: 40 input channels, 8 aux channels, 16 (auxiliary) buses, 16 DCAs, 4 main buses and 8 matrix buses.

This screen also offers a fast shortcut to zooming into any of the above groups of channels for control or editing, by just touching it.

## ROUTING



WING allows for flexible routing options: every SOURCE can be routed to every channel or physical output. The patching of SOURCES and outputs is configured on the ROUTING screen.

The same edits can alternatively be made on each channel's INPUT section within the HOME screen.

## Channels

Three buttons on the top right-hand corner of the screen select the channels, physical inputs, or outputs for editing. The first button controls the channel configuration.



The “CHANNEL INPUT” menu controls whether the channel's main or alternate input will be configured. This follows the concept of an inline console, where a single channel can have two inputs permanently patched and switched according to the user's needs.



Before editing, the unlock icon must be clicked on. When lit green, editing is available. When lit red, editing is blocked.



The left half of the screen will display the 40 input channels and 8 aux buses. The right half of the screen will display the available SOURCES that can be routed to the channels on the left.

After clicking on the desired channel, the SOURCE that drives that channel may be chosen on the right half of the screen. By clicking on the dropdown menu “SOURCE GROUP”, you may choose between the following physical SOURCES on the console's rear panel or buses:

- LOCAL IN: eight physical microphone inputs
- AUX IN: eight physical line aux inputs
- AES/EBU IN: two digital AES/EBU inputs
- AES50A/AES50B/AES50C: three AES50 ports

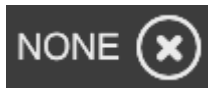
# WING and WING-BK Overview

- **USB AUDIO:** the console can be used as a USB interface with 48 input and output channels.
- **EXP CARD:** up to 64 inputs depending on the expansion cards installed.
- **MODULE:** up to 64 inputs via DANTE and SoundGrid cards are available.
- **BUS:** each of the 16 buses (stereo)
- **MAIN:** each of the 4 main buses (stereo)
- **MATRIX:** each of the 8 matrix buses (stereo)
- **OSCILLATOR:** two white noise, pink noise, or sine wave oscillators
- **STAGE CONNECT:** 32 digital audio channels at 48kHz and 24 bits via the XLR connector
- **USB PLAYER:** 4 channels from the USB player (Type A port) on the front panel. Files must be uncompressed .wav audio.
- **USER SIGNAL:** signals that can be derived from different points in the signal flow of input channels, buses, main buses or matrix buses, or repatched SOURCES through any of the 24 user patches

When patching multiple adjacent channels, clicking on the “+1 AUTO” button automatically selects the following console channel for a quicker input assignment.



To clear a channel’s input, click on “NONE”.



The mono, stereo or mid-side configuration of each channel can be configured via the M, ST and M/S buttons.



## Sources

When clicking on the SOURCES button, specific customization options for the SOURCES will show up. All the SOURCE groups are accessible via the dropdown menu at the top of the screen.

It is possible to rename the SOURCE, configure it as a mono, stereo or mid-side SOURCE, activate phantom power (by holding down the 48V button), invert the polarity, add an icon, change the SOURCE color, and add mute group tags so that the SOURCE is muted when the corresponding mute group is active. Signals grouped into stereo or mid-side configurations can be fed into a single channel on the console.

If the signals are not adjacent (for example, LOCAL IN 1 and 3) or belong to different SOURCE groups (for example, Local IN 1 and AUX 1), they can be grouped using USER PATCHES.

The USER PATCHES are found in the USER SIGNAL SOURCE group and labeled USR 25 through 48. After clicking on a user patch, the signal fed into it is assigned on the right of the screen. User patches can be configured as mono, stereo or mid-side and used as SOURCES for channels on the console.

## Outputs

When clicking on the Outputs button, routing options for the outputs will show up. Any SOURCE can be routed to any output.



The left side of the screen will show the available digital and analog outputs. All output groups are accessible via the dropdown menu at the top of the screen.

The signal that will be fed into the selected output can be chosen on the right side of the screen. All the SOURCE groups are accessible via the dropdown menu at the top of the screen.

The output groups WLIVE REC and RECORDER control the routing for recording on two SD cards or on a USB flash drive connected to the front panel. Up to 64 channels can be recorded on the SD cards (32 on each card) or 4 channels on a USB flash drive. Up to 48 channels can be recorded on a computer connected via USB to the rear panel.

## SETUP



## General

The left side of the screen shows the console name which can be edited, its serial number, firmware version and the installed expansion card.

USB MSD ACCESS controls the content that will show up when connected to a computer via USB. Select WING OS to load software updates on the console. Select WING DATA to manage saved console show data (shows, snips, snaps, presets, clips). To disconnect the console from the computer or to return to audio playback via USB from the computer, eject the console as regularly done with a normal USB flash drive.

The time and date can be set on the CLOCK menu.

INIT CONSOLE is used to reset the console’s channels, aux, buses, main buses, matrix buses, SOURCES, outputs, DCAs, mute groups and effects settings. All items can be selected by clicking on ALL. Specific items can be selected by clicking on them. To clear the selection, click on NONE. The selected items’ settings will be reset upon clicking INIT.

Alternatively, the console can be reset by pressing and holding the CLR SOLO button on the Main Display while powering the console up.

## Audio

The AUDIO CLOCK section controls the console’s sample rate (CLOCK RATE) and word CLOCK SOURCE (SYNC SOURCE) settings.

By clicking on the channel and aux bus grid below INPUT SELECT, it is possible to easily toggle between the MAIN and ALT input for all 40 channels and 8 aux buses.

PREFERENCES contains multiple muting and solo options.

Different solos can be set up as pre (PFL) or post fader (AFL).

USB AUDIO selects the number of channels available via the type-B USB connection on the rear panel from 2 to 48 channels.

AUTOMIX automatically regulates the level of multiple SOURCES so that the output level stays uniform. This is useful in situations where different speakers will be talking on stage at the same time, for example. Up to 16 channels can use automix (in the post-insert slot) in two groups (A/B).

## SURFACE

This screen contains multiple options regarding the console surface’s lights, metering and scribbles.

## REMOTE

Multiple console settings can be controlled via MIDI, either via a DIN-5 or a USB connection. The MIDI REMOTE CONTROL section determines which parameter will be controlled via which connection.

The HA REMOTE section controls the console’s remote control via the AES50 A, B and C ports.

The IP mode and address can be set up on the NETWORK section.

## DAW

The WING console can be used as a DAW controller. The respective setup is available on the DAW screen. Presets for different DAWs can be loaded automatically via the dropdown menu.

For the console to function as a DAW controller, the REMOTE CONTROL button to the left of the custom controls must be pressed.

## LIBRARY



The LIBRARY screen is the file manager for different types of media including .wav audio files, snapshots, snippets, and effect and channel presets saved on the console’s internal storage or on a USB flash drive connected to the front panel.

## SNAP

The SNAP tab is used to manage snapshots that save the console’s channels, aux, buses, main buses, matrix buses, SOURCES, outputs, DCAs, mute groups and effects settings.

The content that can be saved includes channel customization, tags, patching, filters, time delay, channel strip settings, EQ, panning, sends, fader, mute and order of the processing in the channel.

The SAVE button saves all the console’s settings. SAVE+SCOPE allows the user to select specific content to be saved for specific channels. The NONE and ALL buttons allow a quicker selection of the desired content.

The snapshot will be saved either on the console’s internal storage or on the USB flash drive connected to the front panel, depending on which location is selected on the top left corner of the screen.



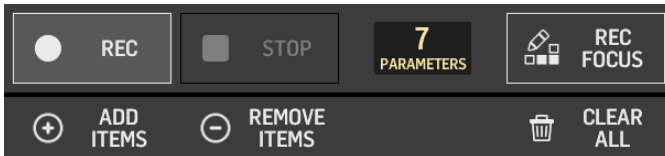
After changes have been made to the console’s settings, these can be saved to a preexisting snapshot by clicking on the desired snapshot and then clicking on UPDATE. If only specific channels or contents should be updated, click on PARTIAL UPDATE and select the desired settings.

To load a snapshot with or without a defined scope, click on LOAD. A snapshot will always store all the parameters but only recall the specified ones when SAVE+SCOPE is used. To edit the SCOPE of an existing snapshot, click on EDIT SCOPE. Specific settings can also be loaded from a complete snapshot with the PARTIAL LOAD button.

## SNIP

Snippets can be used to recall more precise settings adjustments like specific processor changes in the channel strip. To select which settings will be stored in a snippet, click on the REC button and manually adjust the desired settings. The number of modified parameters will be displayed on screen. Make sure to click on STOP after all the changes have been made.

It is possible to add or remove parameters from a snippet using the ADD ITEMS and REMOVE ITEMS buttons.



## GLOBAL

Any channel, bus, SOURCE, output, DCA, mute group or effect and its associated contents can be protected against being overridden when loading snapshots or snippets. To do so, click on the GLOBAL button on the top right-hand corner of the screen and specify what needs to be protected. Whenever a setting is protected, the lock icon will turn red.



## CLIP

The WING console can play .wav files from previously copied from a computer to the internal storage via the WING DATA USB connection, a USB flash drive connected to the front panel or .wav recordings made by the console and stored on a USB flash drive or on up to two SD cards in the rear panel.

Clips can be selected on the left panel and played using the right panel.

# WING and WING-BK Overview

*FX*

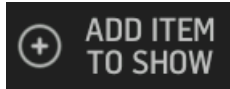
The effects loaded on the 16 slots of the EFFECTS screen will show up on the FX screen. The set up of the 16 slots can be stored and recalled.

*CHAN*

Individual channels can also be stored and recalled. All the channel settings will be saved when using this feature. Upon loading, only the selected configurations will be loaded.

*SHOW*

Snapshots, snippets, clips, FX setups and channel setups can be grouped and saved as Shows. To do so, go to the SHOW tab and click on CREATE. Navigate to the desired item on the internal storage or flash drive, make sure the SHOW tab is open and then click on the ADD ITEM TO SHOW button.



Click on the SAVE button in the SHOW tab.

Items in a Show can be arranged in a specific order. The item order will be shown when the film icon is selected.



The items can be navigated using the SHOW CNTRL button on the center section of the console. PREV and NEXT select the items. GO triggers each item. GO+PREV and GO+NEXT select and trigger the items automatically.

**UTILITY**



This button does not have its own screen, but rather works in conjunction with other screens. The function is context relative, so pressing the UTILITY button may bring up additional options or settings for configuration, depending on which screen is currently active.

## 7. Standalone recorders/players

The USB and SD recorders and their corresponding players can be accessed via the icons at the top of the main display.



**USB Recorder**



Up to 4 channels can be recorded on a flash drive connected to the front panel. The signals that feed these four channels are assigned via the output group RECORDER found in the OUTPUTS section of the of the ROUTING screen.

**WING-LIVE SD Recorder**



Up to 64 channels can be recorded on two SD cards in the WING-LIVE expansion card. 32 channels will be recorded on each card. The signals feeding each channel are assigned via the output group WLIVE REC on the OUTPUTS section of the ROUTING screen.

## 8. Firmware updates

The WING console firmware can be easily updated via USB. Download the firmware file from the product page on Behringer.com and follow these steps:

1. Open the SETUP/GENERAL page and click on WING OS.
2. Connect a USB cable to the rear panel port and to your computer.
3. A virtual drive will appear on your computer, similar to connecting a flash drive or external hard drive. Double click the drive to open.
4. Drag the new firmware file into the drive. Although WING always boots using the most recent firmware in that drive, it is recommended to delete older firmware files or move them to a subfolder.

If the console does not boot up normally, you can still update the firmware using this procedure:

1. With console powered off, connect a USB cable to the rear panel port and to your computer.
2. Press and hold the button below the main meter to the right of the Main Display, then power the console on.
3. An OS and DATA drive will appear on your computer, similar to connecting a flash drive or external hard drive. Double click a drive to open.
4. Drag the new firmware file into the OS drive.

Note: WING will always boot using the most recent firmware in that drive.

5. After the file has transferred, eject the virtual drive. The console should reboot automatically with the new firmware installed. If it doesn't, power cycle the console manually.

# WING and WING-BK Overview

## 9. Shortcuts

| PURPOSE                                                                    | ENTER MODE                                                                                                  | EFFECT                                                                                                                                                                                                                                                                                                                          | EXIT                                                                                                                                   |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Deactivate Main Display touch control                                      | Hold SETUP, ALT (unlabeled button) and CLR SOLO, until a small X is shown in the status bar of main display | No touch events will have any effect, while the small X is shown. The console will keep operating as usual otherwise. Leaving this mode will calibrate the touch interface and render it operational again.                                                                                                                     | Hold ALT and CLR SOLO until the X disappears                                                                                           |
| Hold ALT (unlabeled button) and CLR SOLO for > 1.5 s                       |                                                                                                             | Resets the touch panel (might help to temporarily fix ghost touch issues for some time)                                                                                                                                                                                                                                         |                                                                                                                                        |
| Touch UI > Ghost Click Test                                                | Hold METERS and HOME for 5 s while powering the console up.                                                 |                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                        |
| OS-Drive > mount USB                                                       | Hold ALT (unlabeled button) while powering the console up (screen stays dark)                               | Console appears as two drives on your computer (WING OS for the console operating system, and WING DATA for snapshots, etc.).                                                                                                                                                                                                   | Eject the drives on your computer                                                                                                      |
| Shutdown and restart                                                       | Hold EFFECT and press HOME after initiating Shutdown from Setup screen                                      | Console will shut down safely and restart automatically                                                                                                                                                                                                                                                                         |                                                                                                                                        |
| Surface >Test Mode                                                         | Hold ALT (unlabeled button) while powering the console up                                                   | Same as OS-Drive mode. Surface is in test mode until console boots up.                                                                                                                                                                                                                                                          |                                                                                                                                        |
| Surface Lock                                                               | Hold the HOME button down for ~1.5 s                                                                        | Locks the console surface, while audio and remote control keep working unaffected.<br>Any combination of buttons (only those around the touch screen) that was held down while engaging the lock will be stored as "pass code" for unlocking. You will need to press the same combination of buttons when disengaging the Lock. | Hold HOME button for ~1.5 s again together with the "pass code" of buttons that were pressed while locking, OR power-cycle the console |
| Initialize console (only temp storage, no snapshots etc. will be erased)   | Hold CLR SOLO while powering the console up                                                                 | Same as using INITIALIZE (from the SETUP page) but before the console loads any saved state (in case the last loaded snapshot somehow crashes the console leading to a boot loop)                                                                                                                                               |                                                                                                                                        |
| Take screenshot                                                            | Hold CLR SOLO then press UTILITY                                                                            | Stores a bmp of the current screen on your USB drive. A folder called 'screens' needs to be created in the root of the USB drive first.                                                                                                                                                                                         |                                                                                                                                        |
| Bypass automatic load of startup files                                     | Hold LIBRARY while powering the console up                                                                  | Does not load STARTUP*.snap, STARTUP*.snip and STARTUP*.show files in the STARTUP directory during boot                                                                                                                                                                                                                         |                                                                                                                                        |
| Configuring optional hardware, i.e. internal AoIP modules for Dante or WSG | Hold UTILITY for 5 s while powering on                                                                      | Configuration dialog allows to specify the hardware option                                                                                                                                                                                                                                                                      |                                                                                                                                        |

# Specifications

| Processing                                                                               |                                                        |
|------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Input processing channels                                                                | 40 stereo input channels, 8 stereo aux channels        |
| Output processing channels                                                               | 16 stereo aux buses, 8 stereo matrices, 4 stereo mains |
| Internal effects engines (all true stereo)                                               | 8 premium FX slots, 8 standard FX slots                |
| Point-to-point routing matrix                                                            | 500 x 502 signals                                      |
| Signal processing                                                                        | 40-bit floating point, 48 kHz                          |
| A/D converters (8-channel, 48 kHz, 24 bits)                                              | 114 dB dynamic range*                                  |
| D/A converters (stereo, 48 kHz, 24 bits)                                                 | 120 dB dyanmic range*                                  |
| I/O latency (console input to output)                                                    | 1.0 ms                                                 |
| Network latency (stage box in > console > stage box out)                                 | 1.2 ms                                                 |
| Connectors                                                                               |                                                        |
| Midas PRO series microphone preamplifier (XLR)                                           | 8                                                      |
| XLR balanced outputs                                                                     | 8                                                      |
| Aux inputs/outputs (¼" TRS balanced, mono)                                               | 8 in / 6 out + 2 monitor or headphone outputs          |
| Phones output (¼" TRS, stereo)                                                           | 2                                                      |
| Digital AES/EBU input/output (XLR)                                                       | 1 / 1                                                  |
| AES50 ports (Klark Teknik SuperMAC, 100 Mbit/s)                                          | 3                                                      |
| Expansion card interface                                                                 | 64 x 64 channel audio input / output                   |
| StageConnect HOST(Master) I/O (12 V / 18 W power supplied, XLR, 32 channels)             | 1                                                      |
| MIDI inputs/outputs                                                                      | 1 / 1                                                  |
| GPIO on TRS, configurable                                                                | 2 x 2                                                  |
| USB 2.0 type B device (48 x 48 ch 24-bit audio and MIDI I/O)                             | 1                                                      |
| USB 2.0 type A host (audio and data, 5 VDC, 1 A)                                         | 1                                                      |
| Ethernet LAN ports, RJ45, 1 Gbit/s                                                       | 2, internally switched                                 |
| Audio over IP (AoIP) internal module socket (Dante, AES67 or SoundGrid modules optional) | Up to 64 x 64 channels @ 48 kHz                        |
| IEC mains socket with power switch                                                       | 1                                                      |
| Mic Input Characteristics (Mic Input to Analog Output)                                   |                                                        |
| Design                                                                                   | Midas PRO series                                       |
| THD+N (0 dB gain, 0 dBu output)                                                          | <0.004%*                                               |
| THD+N (+40 dB gain, 0 dBu to +20 dBu output)                                             | <0.006%*                                               |
| Input impedance (unbalanced / balanced)                                                  | 1 kΩ / 2 kΩ                                            |
| Non-clip maximum input level                                                             | +21 dBu                                                |
| Phantom power (switchable per input)                                                     | +48 V                                                  |
| Equivalent input noise @ +45 dB gain (150 Ω source)                                      | -128 dBu*                                              |
| CMRR @ unity gain (typical)                                                              | >50 dB                                                 |
| CMRR @ 40 dB gain (typical)                                                              | >70 dB                                                 |
| Input/Output Characteristics                                                             |                                                        |
| Frequency response @ 48 kHz sample rate, 0 to -1 dB (any gain setting)                   | 10 Hz - 20 kHz                                         |
| Dynamic range, analog in to analog out (typical), XLR / aux                              | 111 dB* / 108 dB*                                      |
| A/D dynamic range, preamplifier and converter (typical), XLR / aux                       | 112 dB* / 110 dB*                                      |
| D/A dynamic range, converter and output (typical), XLR / aux                             | 118 dB* / 112 dB*                                      |
| Crosstalk rejection @ 1 kHz, adjacent channels                                           | 100 dB                                                 |
| Output level, XLR connectors (nominal / maximum)                                         | +4 dBu / +21 dBu                                       |
| Output impedance, XLR connectors (unbalanced / balanced)                                 | 75 Ω / 75 Ω                                            |
| Input impedance , TRS connectors (unbalanced / balanced)                                 | 20 kΩ / 40 kΩ                                          |
| Non-clip maximum input level, TRS connectors                                             | +16 dBu                                                |
| Aux output level, TRS (nominal / maximum)                                                | +4 dBu / +16 dBu                                       |
| Aux output impedance, TRS (unbalanced / balanced)                                        | 150 Ω / 300 Ω                                          |
| Headphone output impedance / maximum output level                                        | 500 mW @ 75 Ω / +18 dBu                                |
| Residual noise level, XLR out 1-16 connectors, unity gain                                | -97 dBu*                                               |
| Residual noise level, aux and monitor TRS out connectors                                 | -95 dBu*                                               |

| Displays                                                    |                                                |
|-------------------------------------------------------------|------------------------------------------------|
| Main screen                                                 | 10.1" TFT LCD, 1280 x 800 px, capacitive touch |
| Main screen swivel, continuous adjustment                   | 15°- 60°                                       |
| 4-channel group LCD screen with RGB color strip per channel | 320 x 48 monochrome                            |
| Channel editing screen                                      | 2.4" TFT LCD, 320 x 240 px                     |
| Button assignment screen                                    | N/A                                            |
| Main stereo meter                                           | 18 segment (-60 dB to clip)                    |
| Controls                                                    |                                                |
| 100 mm motor faders                                         | 12 + 8 + 4                                     |
| Touch-sensitive rotary controls                             | 3 + 7 + 11 + 4 + 4                             |
| Custom Controls                                             |                                                |
| Fully assignable rotary controls                            | 4                                              |
| Fully assignable backlit buttons                            | 8 + 8                                          |
| Variable rotary controls / buttons                          | 4 / 4                                          |
| Power                                                       |                                                |
| Switch-mode power supply                                    | Auto-ranging 100-240 VAC (50/60 Hz)            |
| Power consumption                                           | 130 W                                          |
| Physical                                                    |                                                |
| Standard operating temperature range                        | 5°C – 45°C (41°F – 113°F)                      |
| Dimensions (H x W x D)                                      | 201 x 870 x 575 mm (7.9 x 34.3 x 22.6")        |
| Weight                                                      | 24 kg (52.8 lbs)                               |

\*A-weighted noise and dynamic range figures

# Other important information

## EN Important information

**1. Register online.** Please register your new Music Tribe equipment right after you purchase it by visiting musictribe.com. Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.

**2. Malfunction.** Should your Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under “Support” at musictribe.com. Should your country not be listed, please check if your problem can be dealt with by our “Online Support” which may also be found under “Support” at musictribe.com. Alternatively, please submit an online warranty claim at musictribe.com BEFORE returning the product.

**3. Power Connections.** Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

## FR Informations importantes

**1. Enregistrez-vous en ligne.** Prenez le temps d'enregistrer votre produit Music Tribe aussi vite que possible sur le site Internet musictribe.com. Le fait d'enregistrer le produit en ligne nous permet de gérer les réparations plus rapidement et plus efficacement. Prenez également le temps de lire les termes et conditions de notre garantie.

**2. Dysfonctionnement.** Si vous n'avez pas de revendeur Music Tribe près de chez vous, contactez le distributeur Music Tribe de votre pays : consultez la liste des distributeurs de votre pays dans la page “Support” de notre site Internet musictribe.com. Si votre pays n'est pas dans la liste, essayez de résoudre votre problème avec notre “aide en ligne” que vous trouverez également dans la section “Support” du site musictribe.com. Vous pouvez également nous faire parvenir directement votre demande de réparation sous garantie par Internet sur le site musictribe.com AVANT de nous renvoyer le produit.

**3. Raccordement au secteur.** Avant de relier cet équipement au secteur, assurez-vous que la tension secteur de votre région soit compatible avec l'appareil. Veillez à remplacer les fusibles uniquement par des modèles exactement de même taille et de même valeur électrique — sans aucune exception.

## PT Outras Informações Importantes

**1. Registre-se online.** Por favor, registre seu novo equipamento Music Tribe logo após a compra visitando o site musictribe.com. Registrar sua compra usando nosso simples formulário online nos ajuda a processar seus pedidos de reparos com maior rapidez e eficiência. Além disso, leia nossos termos e condições de garantia, caso seja necessário.

**2. Funcionamento Defeituoso.** Caso seu fornecedor Music Tribe não esteja localizado nas proximidades, você pode contatar um distribuidor Music Tribe para o seu país listado abaixo de “Suporte” em musictribe.com. Se seu país não estiver na lista, favor checar se seu problema pode ser resolvido com o nosso “Suporte Online” que também pode ser achado abaixo de “Suporte” em musictribe.com. Alternativamente, favor enviar uma solicitação de garantia online em musictribe.com ANTES da devolução do produto.

**3. Ligações.** Antes de ligar a unidade à tomada, assegure-se de que está a utilizar a voltagem correcta para o modelo em questão. Os fusíveis com defeito terão de ser substituídos, sem qualquer excepção, por fusíveis do mesmo tipo e corrente nominal.

## ES Aspectos importantes

**1. Registro online.** Le recomendamos que registre su nuevo aparato Music Tribe justo después de su compra accediendo a la página web musictribe.com. El registro de su compra a través de nuestro sencillo sistema online nos ayudará a resolver cualquier incidencia que se presente a la mayor brevedad posible. Además, aproveche para leer los términos y condiciones de nuestra garantía, si es aplicable en su caso.

**2. Averías.** En el caso de que no exista un distribuidor Music Tribe en las inmediaciones, puede ponerse en contacto con el distribuidor Music Tribe de su país, que encontrará dentro del apartado “Support” de nuestra página web musictribe.com. En caso de que su país no aparezca en ese listado, acceda a la sección “Online Support” (que también encontrará dentro del apartado “Support” de nuestra página web) y compruebe si su problema aparece descrito y solucionado allí. De forma alternativa, envíenos a través de la página web una solicitud online de soporte en periodo de garantía ANTES de devolvernos el aparato.

**3. Conexiones de corriente.** Antes de enchufar este aparato a una salida de corriente, asegúrese de que dicha salida sea del voltaje adecuado para su modelo concreto. En caso de que deba sustituir un fusible quemado, deberá hacerlo por otro de idénticas especificaciones, sin excepción.

## DE Weitere wichtige Informationen

**1. Online registrieren.** Bitte registrieren Sie Ihr neues Music Tribe-Gerät direkt nach dem Kauf auf der website musictribe.com. Wenn Sie Ihren Kauf mit unserem einfachen online Formular registrieren, können wir Ihre Reparaturansprüche schneller und effizienter bearbeiten. Lesen Sie bitte auch unsere Garantiebedingungen, falls zutreffend.

**2. Funktionsfehler.** Sollte sich kein Music Tribe Händler in Ihrer Nähe befinden, können Sie den Music Tribe Vertrieb Ihres Landes kontaktieren, der auf musictribe.com unter „Support“ aufgeführt ist. Sollte Ihr Land nicht aufgelistet sein, prüfen Sie bitte, ob Ihr Problem von unserem „Online Support“ gelöst werden kann, den Sie ebenfalls auf musictribe.com unter „Support“ finden. Alternativ reichen Sie bitte Ihren Garantieanspruch online auf musictribe.com ein, BEVOR Sie das Produkt zurücksenden.

**3. Stromanschluss.** Bevor Sie das Gerät an eine Netzsteckdose anschließen, prüfen Sie bitte, ob Sie die korrekte Netzspannung für Ihr spezielles Modell verwenden. Fehlerhafte Sicherungen müssen ausnahmslos durch Sicherungen des gleichen Typs und Nennwerts ersetzt werden.

## IT Informazioni importanti

**1. Registratevi online.** Vi invitiamo a registrare il nuovo apparecchio Music Tribe subito dopo averlo acquistato visitando musictribe.com. La registrazione dell'acquisto tramite il nostro semplice modulo online ci consente di elaborare le richieste di riparazione in modo più rapido ed efficiente. Leggete anche i termini e le condizioni della nostra garanzia, qualora applicabile.

**2. Malfunzionamento.** Nel caso in cui il rivenditore autorizzato Music Tribe non si trovi nelle vostre vicinanze, potete contattare il Music Tribe Authorized Fulfiller per il vostro paese, elencato in “Support” @ musictribe.com. Se la vostra nazione non è elencata, controllate se il problema può essere risolto tramite il nostro “Online Support” che può anche essere trovato sotto “Support” @ musictribe.com. In alternativa, inviate una richiesta di garanzia online su musictribe.com PRIMA di restituire il prodotto.

**3. Collegamento all'alimentazione.** Prima di collegare l'unità a una presa di corrente, assicuratevi di utilizzare la tensione di rete corretta per il modello specifico. I fusibili guasti devono essere sostituiti, senza eccezioni, con fusibili dello stesso tipo e valore nominale.

## NL Belangrijke informatie

**1. Registreer online.** Registreer uw nieuwe Music Tribe-apparaat direct nadat u deze hebt gekocht door naar musictribe.com te gaan. Door uw aankoop te registreren via ons eenvoudige online formulier, kunnen wij uw reparatieclaims sneller en efficiënter verwerken. Lees ook de voorwaarden van onze garantie, indien van toepassing.

**2. Storing.** Mocht uw door Music Tribe geautoriseerde wederverkoper niet bij u in de buurt zijn gevestigd, dan kunt u contact opnemen met de door Music Tribe Authorized Fulfiller voor uw land vermeld onder “Support” op musictribe.com. Als uw land niet in de lijst staat, controleer dan of uw probleem kan worden opgelost door onze “Online Support”, die u ook kunt vinden onder “Support” op musictribe.com. U kunt ook een online garantieclaim indienen op musictribe.com VOORDAT u het product retourneert.

**3. Stroomaansluitingen.** Voordat u het apparaat op een stopcontact aansluit, moet u ervoor zorgen dat u de juiste netspanning voor uw specifieke model gebruikt. Defecte zekeringen moeten zonder uitzondering worden vervangen door zekeringen van hetzelfde type en dezelfde waarde.

## SE Viktig information

**1. Registrera online.** Registrera din nya Music Tribe-utrustning direkt efter att du köpt den genom att besöka musictribe.com. Att registrera ditt köp med vårt enkla onlineformulär hjälper oss att behandla dina reparationsanspråk snabbare och mer effektivt. Läs också villkoren i vår garanti, om tillämpligt.

**2. Fel.** Om din Music Tribe-auktoriserade återförsäljare inte finns i din närhet kan du kontakta Music Tribe Authorized Fulfiller för ditt land listat under “Support” på musictribe.com. Om ditt land inte är listat, kontrollera om ditt problem kan hanteras av vår “Onlinesupport” som också finns under “Support” på musictribe.com. Alternativt kan du skicka in ett online-garantianspråk på musictribe.com INNAN du returnerar produkten.

**3. Strömanslutningar.** Innan du ansluter enheten till ett eluttag, se till att du använder rätt nätspanning för just din modell. Felaktiga säkringar måste bytas ut mot säkringar av samma typ och märkning utan undantag.

## PL Ważna informacja

**1. Zarejestrować online.** Zarejestruj swój nowy sprzęt Music Tribe zaraz po zakupie na stronie musictribe.com. Zarejestrowanie zakupu za pomocą naszego prostego formularza online pomaga nam szybciej i efektywniej rozpatrywać roszczenia dotyczące naprawy. Przeczytaj również warunki naszej gwarancji, jeśli dotyczy.

**2. Awaria.** Jeśli Twój autoryzowany sprzedawca Music Tribe nie znajduje się w pobliżu, możesz skontaktować się z autoryzowanym dostawcą Music Tribe dla swojego kraju, wymienionym w sekcji „Wsparcie” na stronie musictribe.com. Jeśli Twojego kraju nie ma na liście, sprawdź, czy Twój problem może zostać rozwiązany przez nasze „Wsparcie online”, które można również znaleźć w sekcji „Wsparcie” na stronie musictribe.com. Alternatywnie, prześlij zgłoszenie gwarancyjne online na musictribe.com PRZED zwrótem produktu.

**3. Połączenia zasilania.** Przed podłączeniem urządzenia do gniazdka sieciowego upewnij się, że używasz odpowiedniego napięcia sieciowego dla danego modelu. Wadliwe bezpieczniki należy bez wyjątku wymienić na bezpieczniki tego samego typu i wartości.

## JP その他の重要な情報

**1. 登録。** 新しい Music Tribe 機器をご購入後、すぐに musictribe.com にアクセスしてオンライン登録を行ってください。シンプルなオンラインフォームでの登録は、修理請求の処理をより迅速かつ効率的に行うために役立ちます。また、適用される場合は、保証の利用規約をお読みください。

**2. 故障。** お近くに Music Tribe 認定販売店がない場合は、musictribe.com の “サポート” セクションに記載されている国別の Music Tribe 認定代理店にお問い合わせください。お住まいの国がリストにない場合は、“オンラインサポート” から問題が解決できるか確認してください。こちらも “サポート” セクションにございます。あるいは、製品を返品する前に、musictribe.com でオンライン保証請求を提出してください。

**3. 電源接続。** ユニットを電源コンセントに差し込む前に、モデルに適した正しい電圧を使用していることを確認してください。ヒューズが故障した場合は、必ず同じ種類と定格のヒューズに交換してください。

## CN 其他的重要信息

**1. 在线注册。** 购买后，请访问我们的网站立即注册新的 Music Tribe 设备。使用我们简单的在线表格注册您的购买信息有助于我们更快、更有效地处理您的维修索赔。另外，请阅读我们保修的条款和条件（如适用）。

**2. 无法正常工作。** 如果您所在地区没有 Music Tribe 授权的经销商，您可以联系您所在国家/地区的 Music Tribe 授权履行者，其联系方式在 behringer.com 的“支持”部分列出。如果您的国家/地区未列出，请检查您的问题是否可以通过我们的“在线支持”解决，该选项也可以在 behringer.com 的“支持”部分找到。或者，您也可以在退回产品之前在 behringer.com 提交在线保修索赔。

**3. 电源连接。** 将本设备连接电源前，请确保使用的电压正确。保险丝需要更换时，必须使用相同型号及定额的保险丝。

EN

ES

FR

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PT

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NL

SE

PL

JP

CN

FEDERAL COMMUNICATIONS  
COMMISSION COMPLIANCE  
INFORMATION

Behringer

WING and WING-BK

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**

WING and WING-BK

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.

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.

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

**Important information:**  
Changes or modifications to the equipment not expressly approved by Music Tribe can void the user’s authority to use the equipment.



Hereby, Music Tribe declares that this product is in compliance with Directive 2014/30/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



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.

We Hear You