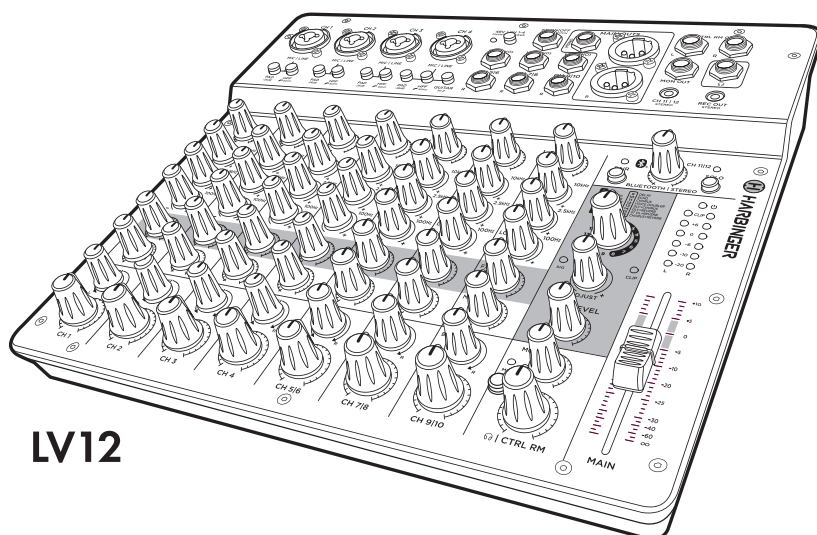


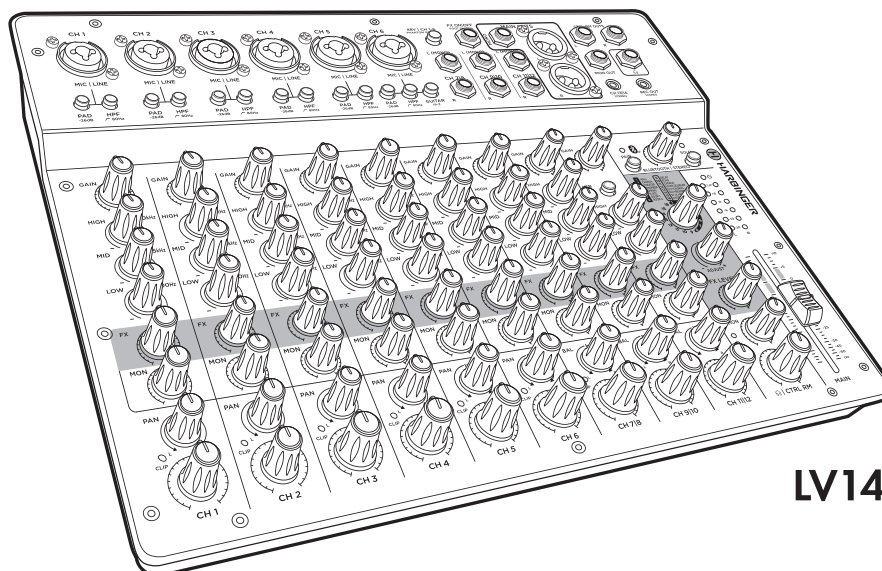


# HARBINGER

## LV12 & LV14 OWNER'S MANUAL



**LV12**



**LV14**

**LVL**  
SERIES

# TABLE OF CONTENTS

Quick Start Guide: LV12 & LV14 ..... 4-5

Bluetooth Audio Input..... 5

LV12 Top Panel ..... 6-7

LV14 Top Panel ..... 8-9

LV12 & LV14 Rear Panel ..... 10

LV14 Bluetooth Pairing, Troubleshooting ..... 10

USB Walkthrough LV14 ..... 11

Appendix..... 12-13

LV12 & LV14 Specifications ..... 13

LV12 Block Diagram..... 14

LV14 Block Diagram ..... 15

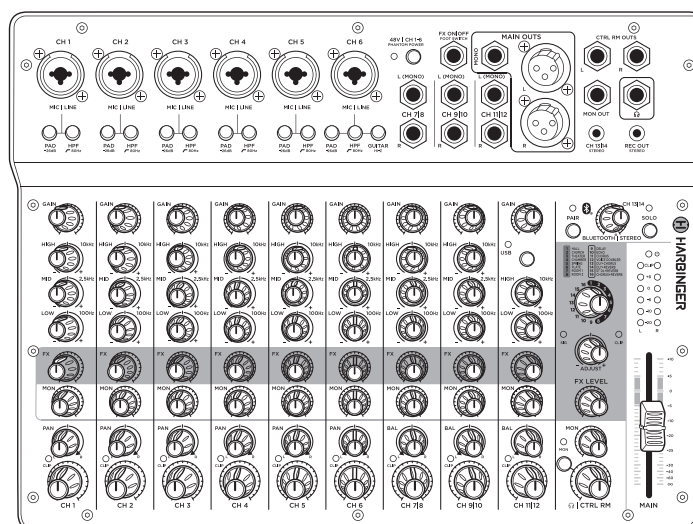
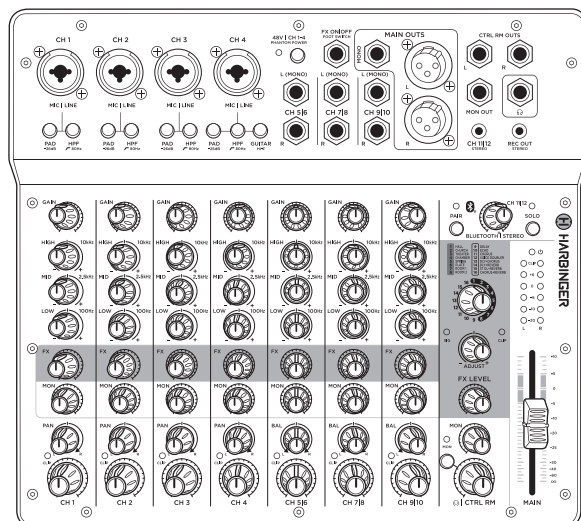
Glossary of Terms..... 16

Cable Diagrams..... 17

Important Safety Instructions ..... 18

FCC Statements..... 19

Warranty/Customer Support ..... 19



## WELCOME

Newly designed Harbinger LVL Series mixers offer premium-grade connection points, professional-level audio performance and convenient Bluetooth® wireless audio connectivity. 4 available models cover everything from solo performances to full-band mixing, live and in studio, with our LV12 and flagship LV14 that include USB recording and playback

- LV12** - Compact 12-channel mixer with Bluetooth, 4 phantom power-capable microphone preamps and digital FX
- Bluetooth® audio input with push-button Solo feature
  - 4 High-headroom, low-noise microphone preamps
  - Guitar input with Hi-Z switch for optimized impedance
  - Built-in digital FX with Parameter Adjust for fine-tuning of FX presets
  - 1/4" Monitor Output
  - 48V Phantom Power for condenser microphones
  - 4 XLR 1/4" combo inputs support a wide range of sources
  - -26dB Pads and 80Hz High-Pass Filters minimize clipping and low-frequency rumble
  - XLR Main Outputs for connecting to pro-standard equipment
  - 3-Band EQ for detailed tone adjustment
  - Stereo 1/4" Control Room Outputs
  - 1/8" Stereo Input and Record Output for connecting to mobile devices
  - 1/4" Headphone Output

- LV14** - Compact 14-channel mixer with Bluetooth, 6 phantom power-capable microphone preamps, digital FX and USB Audio
- Bluetooth® audio input with push-button Solo feature
  - 6 High-headroom, low-noise microphone preamps
  - Guitar input with Hi-Z switch for optimized impedance
  - Built-in digital FX with Parameter Adjust for fine-tuning of FX presets
  - 1/4" Monitor Output
  - 48V Phantom Power for condenser microphones
  - 6 XLR 1/4" combo inputs support a wide range of sources
  - -26dB Pads and 80Hz High-Pass Filters minimize clipping and low-frequency rumble
  - XLR Main Outputs for connecting to pro-standard equipment
  - 3-Band EQ for detailed tone adjustment
  - USB audio connectivity for recording or playing tracks from PC
  - Stereo 1/4" Control Room Outputs
  - 1/8" Stereo Input and Record Output for connecting to mobile devices
  - 1/4" Headphone Output



## QUICK START GUIDE: LVLV12 & LV14

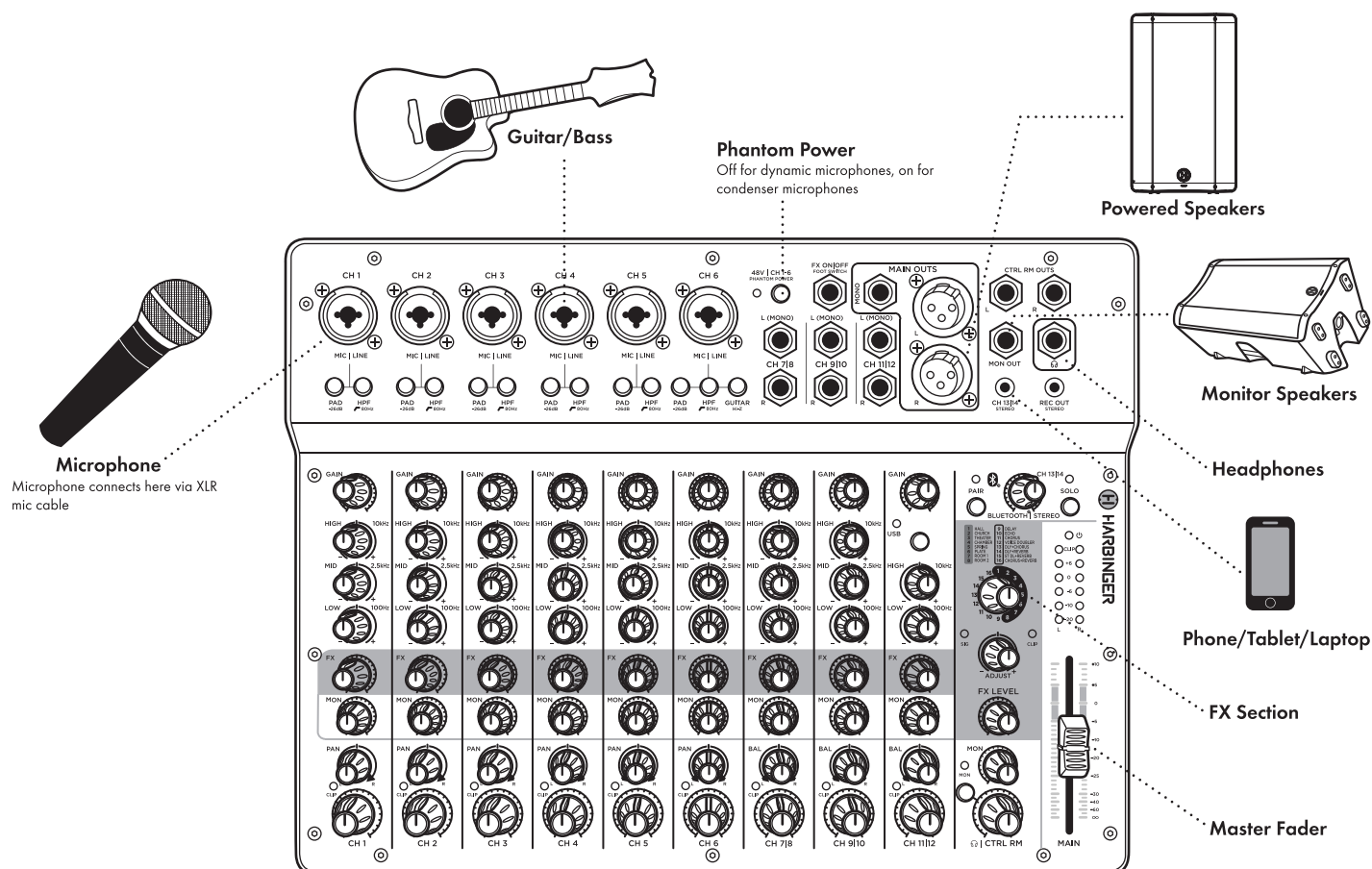
### SETTING UP / HELPFUL TIPS

- Make sure the power switch is set to the off position
- Plug the included power supply into an AC power outlet and into the power input on the rear panel of the mixer
- Now set the power switch to the on position

### INPUT CONNECTIONS

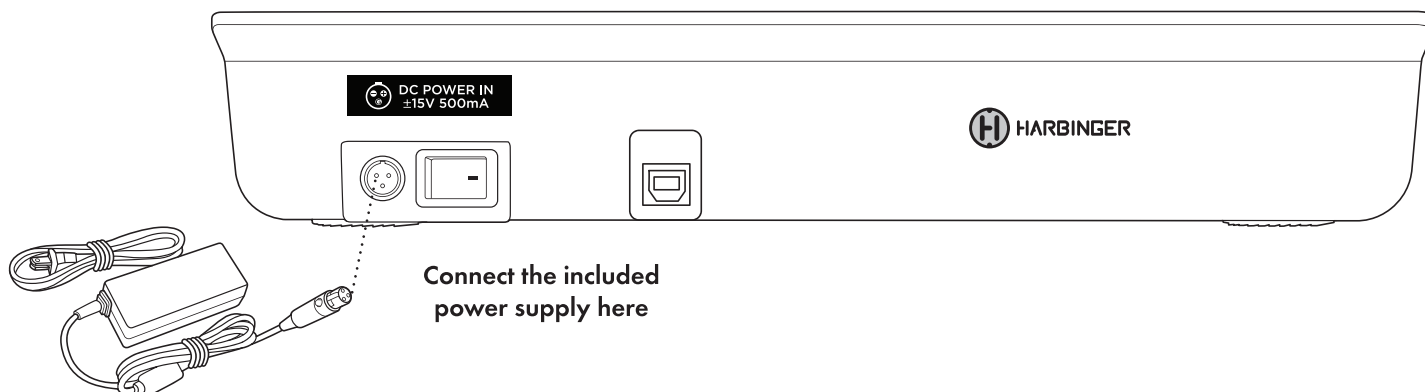
Choose any combination of the following sources:

- **MICROPHONE** - Connect a microphone to an XLR combo input jack via XLR or 1/4" cable
- **PHONE/TABLET/LAPTOP** - Connect a tablet, phone or laptop to the CH 11 | 12 STEREO input jack (LV12) or CH 13 | 14 STEREO input jack (LV14) via stereo 3.5 mm TRS cable
- **GUITAR/BASS** - Connect a guitar or bass with a passive pickup to the CH 4 input (LV12) or CH 6 input (LV14) via standard 1/4" guitar cable and press the GUITAR Hi-Z button



### CHECK KNOBS AND SWITCHES

- Turn all white-capped level knobs to the minimum (full counter-clockwise) position and the MAIN fader to the minimum (down-most position). These are the CH 1 - CH 9 | 10 GAIN and CTRL RM level controls as well as the MAIN level fader.
- Turn all grey-capped and blue-capped knobs to the 12 o'clock position. These are the PAN, BAL and EQ controls
- Turn all green-capped level knobs to the minimum (full counter-clockwise) position. These are the FX and MON level send controls.
- All buttons should be in the up position. The white bottom edge of the button will be clearly visible and 48V and SOLO LEDs should be off.



#### OUTPUT CONNECTIONS

- **HEADPHONES** – Connect a pair of headphones to the mixer's 1/4" headphone jack
- **POWERED SPEAKERS** – Connect the MAIN OUTS on the LV12 or LV14 to a pair of powered speakers via XLR cable
- **MONITOR SPEAKERS** – Connect the MON OUT on the LV12 or LV14 to a monitor speaker via a 1/4" TRS cable

#### POWERING UP

- Power on any devices connected to input jacks
- Power on the LV12 or LV14
- Power on the powered speakers connected to the LV12 or LV14's MAIN OUTS

#### SETTING LEVELS

- **MICROPHONE** – If you have connected a condenser microphone, press the 48V switch (the 48V LED will come on). If you have connected a dynamic microphone, the 48V switch should be in the off position with the 48V LED off. If you experience too much "boominess" or bass in the microphone signal, set the 80Hz HPF button to the on position. While speaking or singing into the connected microphone, slowly bring up the channel 1 GAIN control until only the loudest input briefly triggers the channel 1 CLIP indicator LED. Reduce the GAIN control slightly from this level. Continue speaking or singing into the connected microphone and slowly bring up the CH 1 level control to the 12 o'clock position, then slowly bring up the MAIN fader level control until a comfortable listening level is achieved.
- **PHONE/TABLET/LAPTOP** – Press play on the connected audio player and increase the player's internal volume control to maximum level. Slowly bring up the BLUETOOTH level control to the 12 o'clock position, then, slowly bring up the MAIN level control until a comfortable listening level is achieved.
- **GUITAR** – Make sure the channel 4 (LV12) or channel 6 (LV14) GUITAR HI-Z switch is set to the on position. While strumming the guitar, slowly bring up the MAIN level control until a comfortable listening level is achieved.
- **POWERED SPEAKERS** – To monitor through powered speakers, slowly bring up the MAIN fader level control until a comfortable listening level is achieved
- **MONITOR SPEAKERS** – To monitor through a powered stage monitor or powered speaker connected to the MON OUT, slowly turn up (clockwise) the MON level knob in the lower right corner of the LV12 or LV14 to the 12 o'clock position and then turn up the MON send level on the channel you wish to send to the connected monitor speaker.
- **HEADPHONES** – Since the headphone level control is independent from the MAIN level control, first ensure that the channel level controls are set so that ample signal is feeding the main and headphone buses. The meters should show between +3 and +5 dB with the MAIN level control at the 12 o'clock position. When this is accomplished, slowly bring up the headphone level control until a comfortable listening level is achieved.

## BLUETOOTH® AUDIO INPUT

The mixer powers up with Bluetooth off. Press the PAIR button to initialize Bluetooth and activate pairing (the PAIR LED will flash, indicating that it is ready to pair). The LV12 or LV14 will automatically reconnect to the previous Bluetooth audio source if it is available, and will otherwise be available for Bluetooth pairing from a source audio device such as a smartphone.

If connecting for the first time, look for and select "Harbinger Mixer" on your Bluetooth audio source device.

The PAIR LED is lit solid when currently paired, blinking when available for pairing, and off if Bluetooth has been disabled by pressing and holding the PAIR button, or when the mixer first powers up.

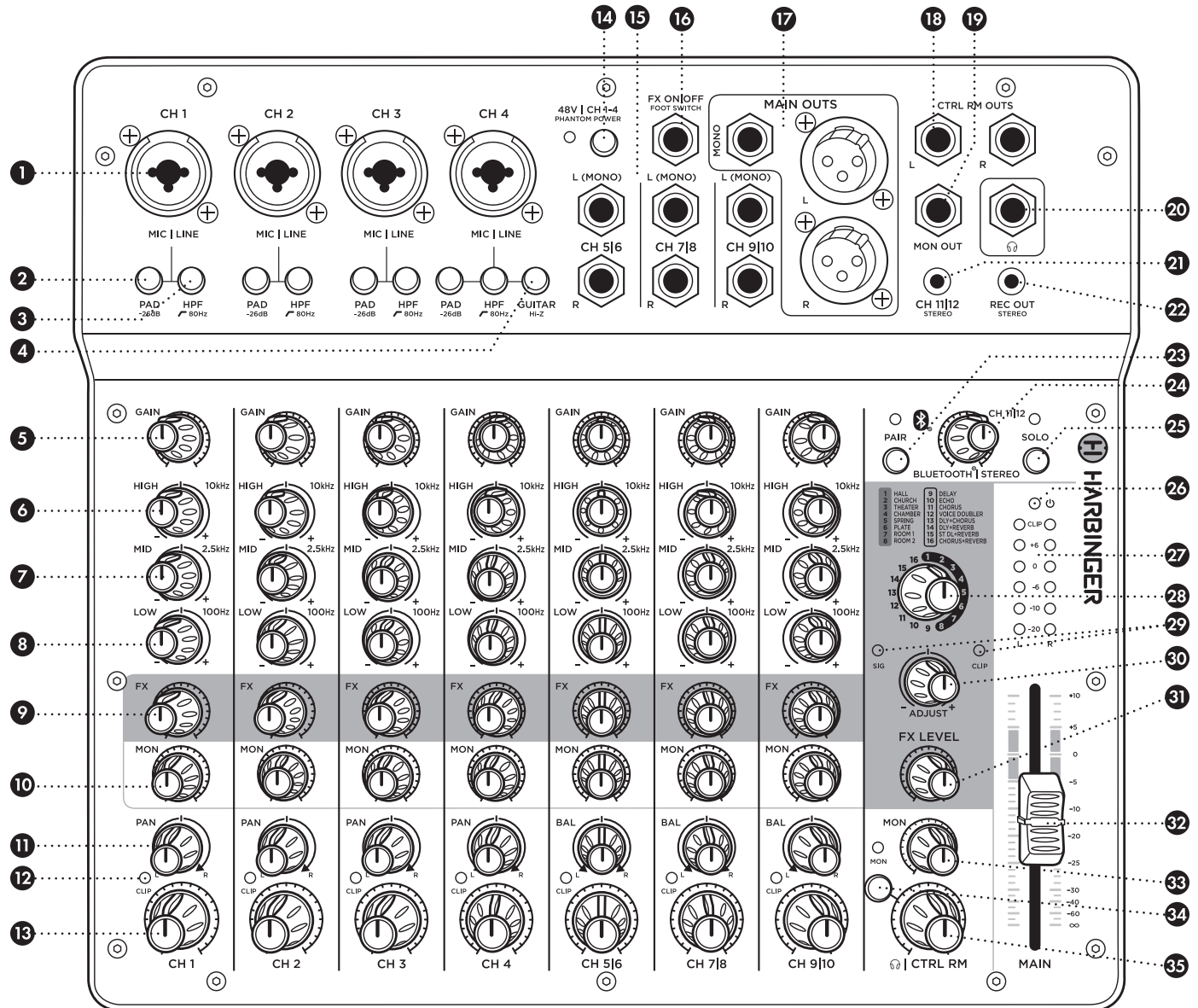
Pressing the PAIR button when a pairing is active forces any currently connected Bluetooth audio source to disconnect, and makes the mixer available for pairing.

See Bluetooth Troubleshooting section in case of difficulty.



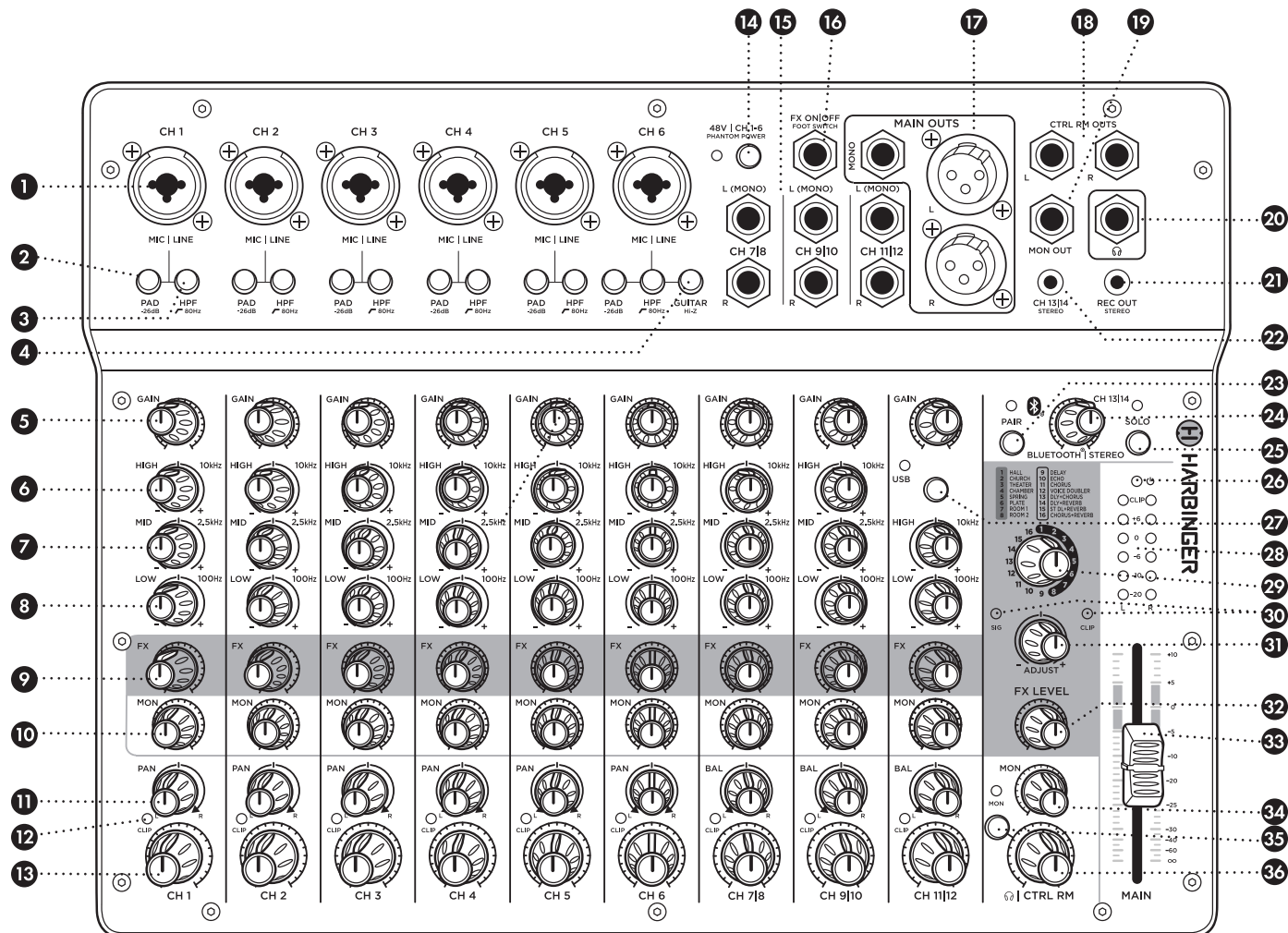
HARBINGER

## LV12 TOP PANEL



- 1 MIC / LINE INPUT**  
An XLR or 1/4" microphone or line level source can be connected here
- 2 -26 dB PAD BUTTON**  
Reduces the signal strength of the associated input signal by 26 dB
- 3 80Hz HIGH-PASS FILTER**  
Reduces low frequency "rumble" from microphone signals
- 4 GUITAR HI-Z BUTTON**  
Changes the impedance on CH4 to optimize passive guitar and bass signals
- 5 GAIN CONTROL**  
Adjusts the preamp gain for the associated channel
- 6 HIGH EQ CONTROL**  
Boosts or cuts the high frequencies of the associated input signal, at a corner frequency of 10 kHz
- 7 MID EQ CONTROL**  
Boosts or cuts the mid frequencies of the associated input signal, at a center frequency of 2.5 kHz
- 8 LOW EQ CONTROL**  
Boosts or cuts the low frequencies of the associated input signal, at a corner frequency of 100 Hz
- 9 FX SEND CONTROL**  
Controls the relative level of the associated channel being sent to the FX processor
- 10 MON SEND CONTROL**  
Controls the relative level of the associated channel being sent to the MON OUT
- 11 PAN CONTROL**  
Adjusts positioning of the channel input signal within the stereo sound field
- 12 CLIP INDICATOR LED**  
Lights red when the signal level at the preamp stage is too high and causing clipping/distortion
- 13 CH LEVEL CONTROL**  
Adjusts the relative level of the associated channel being sent to the MAIN bus
- 14 48V PHANTOM POWER BUTTON**  
Activates phantom power, which is required for condenser-type microphones
- 15 1/4" INPUTS**  
CH5 | 6, CH7 | 8, CH9 | 10- Connect mono or stereo line-level signals here
- 16 FX ON | OFF FOOT SWITCH**  
Connect a 1/4" single-button footswitch here to mute/unmute the internal FX. This can be helpful when addressing the audience between songs
- 17 MAIN OUTPUTS**  
The signal at this output contains the entire mix of input signals. Connect this output to the inputs of powered speakers, a power amp or recording interface, via XLR cables. If a mono output is desired, connect a 1/4" TRS cable to the MONO OUT jack.
- 18 CTRL RM OUTPUTS**  
1/4" outputs for feeding control room speakers or studio monitors
- 19 MON OUTPUT**  
1/4" mono output for feeding floor monitor speakers
- 20 HEADPHONE OUTPUT**  
Connect headphones here. This signal is the same as that being sent to the MAIN bus
- 21 CH 11 | 12 STEREO INPUT**  
Connect a phone, tablet, or laptop here, with a stereo 1/8" (3.5 mm) cable. This input is routed to the BLUETOOTH/CH 11 | 12 channel
- 22 REC OUT**  
This signal is taken from the MAIN bus. Connect this output to a recording device with a stereo 1/8" (3.5 mm) input
- 23 BLUETOOTH PAIR BUTTON**  
With no actively paired device, pressing this button will activate pairing mode (LED will start blinking)  
  
With a device actively paired (LED lit solidly), pressing this button will cancel the pair and will activate pairing mode (LED will begin blinking)  
  
Pressing and holding this button will cancel any active pair and turn Bluetooth off (LED will turn off)
- 24 BLUETOOTH | CH 11 | 12 STEREO LEVEL CONTROL**  
Controls the level of the BLUETOOTH and CH 11 | 12 input signals being sent to the MAIN bus
- 25 BLUETOOTH | CH 11 | 12 SOLO BUTTON**  
Mutes all input sources except BLUETOOTH or CH 11 | 12 input signals
- 26 POWER LED**  
When the LV12 is powered on this LED will be lit red
- 27 MAIN OUTPUT LEVEL METERS**  
Display the main mix output level
- 28 FX PRESET CONTROL AND LISTING**  
Selects the FX preset 1 – 16. The FX type for each preset can be seen in the list above the knob.
- 29 FX SIG & CLIP LEDs**  
These LEDs light up to give information about the incoming signal to the FX processor. When there is signal present, the SIG LED will be lit, indicating there is audio passing through the FX processor. If the CLIP LED is lit at any time, the incoming audio is distorting and the resulting FX will also be distorted
- 30 FX ADJUST CONTROL**  
This control changes the characteristics of the selected FX preset parameters allowing you to customize each preset
- 31 FX LEVEL CONTROL**  
This control adjusts the overall level of the effected signal from the FX processor that is being sent to the MAIN OUTPUTS
- 32 MAIN OUTPUT LEVEL FADER CONTROL**  
This fader controls the level of the MAIN OUTPUT
- 33 MON MASTER CONTROL**  
Controls the combined send output level feeding the MON OUTPUT
- 34 MON SEND TO PHONES | CTRL RM**  
When pressed, the MON send is sent to the Headphone and CTRL RM OUTPUTS. When up, the Phones and CTRL RM OUTPUTS are the same as the MAIN OUTPUTS
- 35 HEADPHONE | CTRL RM MASTER CONTROL**  
This control adjusts the signal level feeding the CTRL RM OUTS and the Headphone output

## LV14 TOP PANEL



### 1 MIC / LINE INPUT

An XLR or 1/4" microphone or line level source can be connected here

### 2 -26 dB PAD BUTTON

Reduces the signal strength of the associated input signal by 26 dB

### 3 80Hz HIGH-PASS FILTER

Reduces low frequency "rumble" from microphone signals

### 4 GUITAR HI-Z BUTTON

Changes the impedance on CH6 to optimize passive guitar and bass signals

### 5 GAIN CONTROL

Adjusts the preamp gain for the associated channel

### 6 HIGH EQ CONTROL

Boosts or cuts the high frequencies of the associated input signal, at a corner frequency of 10 kHz

### 7 MID EQ CONTROL

Boosts or cuts the mid frequencies of the associated input signal, at a center frequency of 2.5 kHz

### 8 LOW EQ CONTROL

Boosts or cuts the low frequencies of the associated input signal, at a corner frequency of 100 Hz

### 9 FX SEND CONTROL

Controls the relative level of the associated channel being sent to the FX processor

### 10 MON SEND CONTROL

Controls the relative level of the associated channel being sent to the MON OUT

### 11 PAN CONTROL

Adjusts positioning of the channel input signal within the stereo sound field

## 12 CLIP INDICATOR LED

Lights red when the signal level at the preamp stage is too high and causing clipping/distortion

## 13 CH LEVEL CONTROL

Adjusts the relative level of the associated channel being sent to the MAIN bus

## 14 48V PHANTOM POWER BUTTON

Activates phantom power, which is required for condenser-type microphones

## 15 1/4" INPUTS

CH7|8, CH9|10, CH11|12 – Connect mono or stereo line-level signals here

## 16 FX ON | OFF FOOT SWITCH

Connect a 1/4" single-button footswitch here to mute/unmute the internal FX. This can be helpful when addressing the audience between songs

## 17 MAIN OUTPUTS

The signal at this output contains the entire mix of input signals. Connect this output to the inputs of powered speakers, a power amp or recording interface, via XLR cables. If a mono output is desired, connect a 1/4" TRS cable to the MONO OUT jack.

## 18 CTRL RM OUTPUTS

1/4" outputs for feeding control room speakers or studio monitors

## 19 MON OUTPUT

1/4" mono output for feeding floor monitor speakers

## 20 HEADPHONE OUTPUT

Connect headphones here. This signal is the same as that being sent to the MAIN bus

## 21 REC OUT

This signal is taken from the MAIN bus. Connect this output to a recording device with a stereo 1/8" (3.5 mm) input

## 22 CH 13|14 STEREO INPUT

Connect a phone, tablet, or laptop here, with a stereo 1/8" (3.5 mm) cable. This input is routed to the BLUETOOTH/ CH 13|14 channel

## 23 BLUETOOTH PAIR BUTTON

With no actively paired device, pressing this button will activate pairing mode (LED will start blinking)

With a device actively paired (LED lit solidly), pressing this button will cancel the pair and will activate pairing mode (LED will begin blinking)

Pressing and holding this button will cancel any active pair and turn Bluetooth off (LED will turn off)

## 24 BLUETOOTH / CH 13|14 STEREO INPUT LEVEL CONTROLS

Controls the level of the BLUETOOTH and CH 13|14 input signals being sent to the MAIN bus

## 25 BLUETOOTH / CH 13|14 SOLO BUTTON

Mutes all input sources except BLUETOOTH or CH 13|14 input

## 26 POWER LED

When the LV14 is powered on this LED will be lit red.

## 27 USB ROUTING TO CH11|12 BUTTON

Pressing this button routes the USB audio input to CH 11|12. Use the CH 11|12 level control to send this signal to the MAIN mix. If you are recording over existing tracks coming from a DAW and you wish to exclude those tracks from the audio being recorded, reduce the CH 11|12 level control to its minimum / full counter-clockwise position (do this for any channels you do not want recorded by the DAW). Press the MON SEND to PHONES | CONTROL ROOM button **31** and use the channel MON SEND CONTROLS **19** to create a mix of the playback and live recording tracks. You will hear both the playback tracks and the signals you are recording, but only the signals being sent to the MAIN mix will be recorded by the DAW

## 28 MAIN OUTPUT LEVEL METERS

Display the main mix output level

## 29 FX PRESET CONTROL AND LISTING

Selects the FX preset 1 – 16. The FX type for each preset can be seen in the list above the knob

## 30 FX SIG AND CLIP LEDs

These LEDs light up to give information about the incoming signal to the FX processor. When there is signal present, the SIG LED will be lit, indicating there is audio passing through the FX processor. If the CLIP LED is lit at any time, the incoming audio is distorting and the resulting FX will also be distorted

## 31 FX ADJUST CONTROL

This control changes the characteristics of the selected FX preset parameters allowing you to customize each preset

## 32 FX LEVEL CONTROL

This control adjusts the overall level of the effected signal from the FX processor that is being sent to the MAIN OUTPUTS

## 33 MAIN OUTPUT LEVEL FADER CONTROL

This fader controls the level of the MAIN OUTPUT

## 34 MON MASTER CONTROL

Controls the combined send output level feeding the MON OUTPUT

## 35 MON SEND TO PHONES | CTRL RM

When pressed, the MON send is sent to the Headphone and CTRL RM OUTPUTS. When up, the Phones and CTRL RM OUTPUTS are the same as the MAIN OUTPUTS

## 36 HEADPHONE|CTRL RM MASTER CONTROL

This control adjusts the signal level feeding the CTRL RM OUTS and the Headphone output