FIT

MIXING CONTROL SURFACE

USER GUIDE

WAVES   MiDiPLUS

INTRODUCTION

Thank you for purchasing the **MiDiPLUS** FIT controller, an intuitive control surface designed to function as a fully integrated fader bank for the Waves eMotion LV1 digital mixing console.

MiDiPLUS FIT features 16+1 touch-sensitive motorized faders, 16+1 clickable rotary encoders, and tons of control buttons, it's perfect match for Waves eMotion LV1. You can also use FIT as a universal control surface by using its HUI and Mackie Control emulation, let you get fully control on your mixing session.

What's in the box:
- FIT mixing control surface
- USB cable
- Power Supply
- User guide
- Rack mounting panels
- Registration Card
- Plastic overlays for different DAWs

SAFETY WARNINGS AND INSTRUCTIONS:

Please read the following precautions carefully before use to avoid damaging the equipment or causing personal injury. Precautions include but are not limited to the following:

01. Read and understand all the illustrations.
02. Always follow the instructions on the device.
03. Before cleaning the device, always remove the power and the USB cable. When cleaning, use a soft and dry cloth. Do not use gasoline, alcohol, acetone, turpentine or any other organic solutions; do not use a liquid cleaner, spray or cloth that's too wet.
04. Make sure to turn off and disconnect the power if not used for extended periods.
05. Do not use the device near water or moisture, such as a bathtub, sink, swimming pool or similar place.
06. Do not place the device in an unstable position where it might accide-ntally fall over.
07. Do not place heavy objects on the device.
08. Do not place the device near a heat vent at any location with poor air circulation.
09. Do not open or insert anything into the device that may cause a fire or electrical shock.
10. Do not spill any kind of liquid onto the device.

11. Do not use the device with thunder and lightning present; otherwise it may cause long distance electrical shock.
12. Do not use in environments below 0℃/32℉ or above 40 ℃/104 ℉
13. Do not use the device when there is a gas leak nearby.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

ATTENTION : RISQUE DE CHOC ELECTRIQUE—NE PAS OUVRIR

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL

ATTENTION: POUR EVITER LES RISQUES DE CHOC ELECTRIQUE, NE PAS ENLEVER LE COUVERCLE.
AUCUN ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER.
CONFIER L'ENTRETIEN AU PERSONNEL QUALIFIE.

AVIS: POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION,
N'EXPOSEZ PAS CET ARTICLE A LA PLUIE OU A L'HUMIDITE

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.
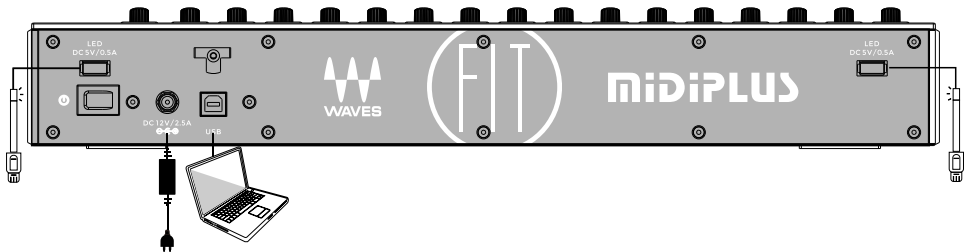
The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

READY TO USE

MiDiPLUS FIT is a class-compliant USB device in both macOS ® and Windows® . When connect your FIT to a free USB port on your computer and turn on the unit, its drivers are automatically installed.

CHANGING THE MODE

MiDiPLUS FIT has 3 different mode of operation, the default mode of operation is the Waves eMotion LV1 mode, if you are using other DAW application, you will need to change the mode of operation to Mackie Control or HUI mode：

1. Hold down the `SOLO` button of Channel 1 and the `2` button of Channel 2 simultaneously while turning on the FIT to select Mackie Control mode, you can use this mode for Logic, Live and Cubase.

2. Hold down the `SOLO` button of Channel 1 and `3` button of Channel 3 simultaneously while turning on the FIT to select HUI mode, you can Use this mode for Pro Tools.
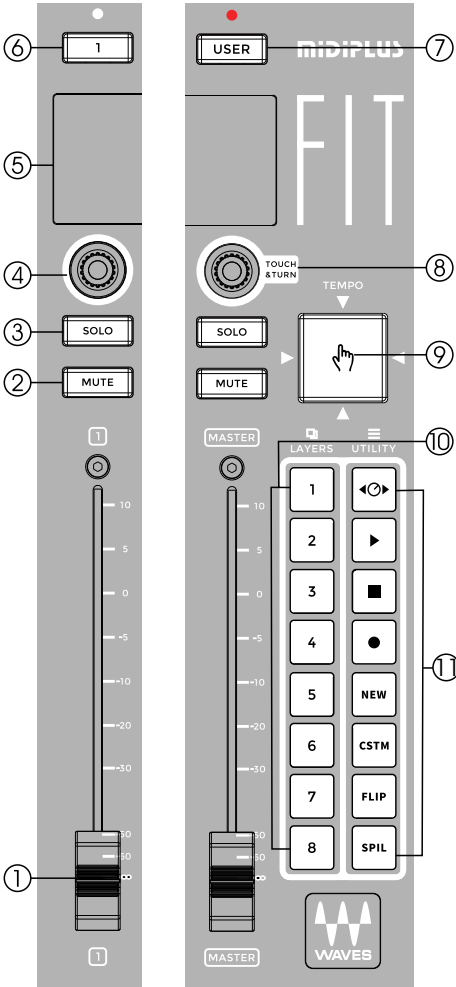
If you want to select Waves eMotion LV1 mode, hold down the `SOLO` and `1` button of Channel 1 simultaneously while turning on the FIT. Once you selected a mode, FIT will automatically boot into the selected mode each time it is powered up.

After setting FIT to the correct mode, open the corresponding DAW and set the FIT controller as follows:

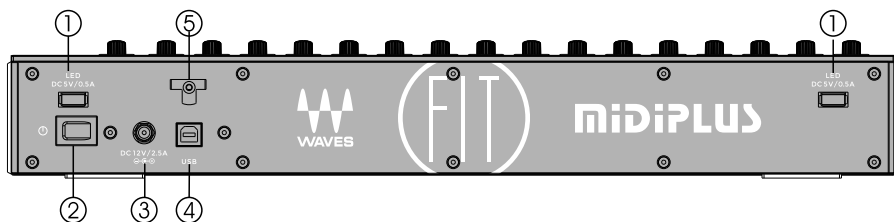|	
LV1	In the System Inventory Device racks, add **MiDiPLUS** FIT as a Control device. Click the **Gear** button to open the MidiPlus control panel. Set Input and Output ports to FIT.
Ableton Live	In the Preferences window, under Link MIDI tab, set **MackieControlXT** with Port 2 as Input and Output. Set **MackieControl** with Port 1 as Input and Output.
Cubase	In the Studio Setup window, add new devices under Remote Devices as following: **Mackie Control** with its MIDI Inputs and Outputs set to Port 1, and **Mackie Control 2** with its MIDI Inputs and Outputs set to Port 2.
Logic	Under Logic's main tab, go to Control Surfaces > Setup. Select **Install** from the New dropdown menu and add **Mackie Control.** set to Port 1 on both Input and Output. Click the **New** drop menu and click **Install** again. Add **Mackie Control Extender** and set to Port 2 for both Input and Output. Drag and drop the **Mackie Control Extender** icon to the left of the **Mackie Control** icon**.**
Pro Tools	Go to Setup > Peripherals > MIDI Controllers. In the first row, select HUI from the Controller Type menu. Select **FIT** in the **Receive From** and the **Send To** menus. In the second row select HUI from the Controller Type menu. Select **MIDIIN2 (FIT)** from the **Receive From** menu and **MIDIOUT2 (FIT)** from the **Send To** menu.

FRONT PANEL

The functions of the knobs and buttons on the FIT will vary depending on which software application is being utilized, the labels for the buttons and controls are specific to Waves eMotion Lv1.

①	**Channel faders**	Touch-sensitive motorized faders
②	**Mute**	Mutes the corresponding channel's output signal
③	**Solo**	Activates CUE or SOLO, depending on LV1 Cue channel settings.
④	**Rotary encoder**	A rotary encoder controls the channel's preamp gain or pan. Click utility button #1 to toggle between gain or pan (default) . This toggle affects allchannels in the layer. The value and label of this control are displayed onthe scribble strip.
⑤	**Scribble strip** (display changes withcontroller mode)	The Scribble Strip is a five-line display that provides feedback about channel status. Specific information changes depending on the controller mode. **Channel Select mode** • Function of the channel select button (mapping) • Channel name • Channel input source • Channel type and ID • Function of the rotary encoder (preamp gain or pan) In **User** mode, the display identifies mute groups and user assignments. In **Flip** mode, Aux destination channels are identified on the top row.
⑥	**Channel select** (function changes with controller mode)	**Channel select mode** (default) Press to select a channel. Its button willturn white and the function of the button will be shown at the top of the scribble strip. An unselected channel's button is the same color as the corresponding channel in the LV1. **User mode** (User button on) The 16 buttons are mapped as mutegroups (1–8) and user assignment keys (9–16) **Flip mode** (Flip button on) In Flip mode, the Select buttons and the first row of scribble strips are used to select the aux destination. Buttons 9–11: select destination layer (EFX 1–8, MON 1–8, MON 9–16) Buttons 1–8: select destination channel within an Aux layer Once you select an aux destination, the faders flip. Large faders are sending to the selected aux; the blinking Flip light indicates the mode.
⑦	**User button**	Engages user-assigned keys mode
⑧	**Touch and Turn control**	One LV1 or plugin control can be assigned to this knob. **Assign:** Click Touch & Turn knob, touch any LV1 or plugin control, click Touch & Turn to confirm. Assignment appears in the scribble strip. **Control:** Turn knob to adjust selected continuous control or switch. Press to increase encoder resolution.Touch and Turn mapping and values are shown on the Master section scribble strip

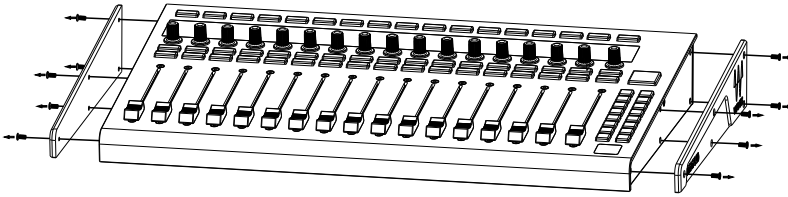| ⑨	**Touch and Turn control**	Tap repeatedly to set the tempo
⑩	**Layer select**	Selects one of eight layers
⑪	**Utility section** (eight buttons)	1. Toggle rotary encoders on all channels between preamp gain and pan control. 2. Assignable button (set in control panel) 3. Assignable button (set in control panel) 4. Assignable button (set in control panel) 5. Stores current condition as new scene. 6. Custom layers mode. When Custom is selected, the eight numbered buttons are used to select a custom layer. There is no custom mapping in the Standalone faders mode. 7. Enables Flip mode, which uses the faders to adjust sends to EFX 1–8, MON 1–8, MON 9–16. Press once on the Flip button. The button will light and the buttons at the top of the channels will be used to select the Flip destination. This is reflected in the top row of the scribble strip. Use the buttons to select destination aux layers and channels. Once and aux destination is selected, the Flip button blinks. 8. Enable Spill mode, which displays all the channels in the selected Link group, regardless of the channel types. Linked controls can be adjusted and a DCA can be used to trim all faders in the group. Choose a DCA group on the LV1 display.

REAR PANEL

1. USB LED Port: Supply DC 5V/0.5A output for USB LED light
2. Power Switch: Power the unit on or off
3. Power Connector: Connect to the power supply provide by MIDIPLUS (DC 12V/2.5A)
4. USB Port: Connect to your computer to control your Wave eMotion LV1 or DAW.
5. Cable Tie: Wind the power supply's cable through one or both hooks to fixed the cable.
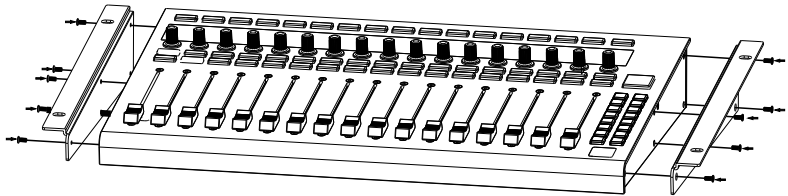
RACK MOUNTING

Before rack mounting, you must replace the 2 side panels with the included Rack mounting side panels, then use an equipment rack that is 19-inches wide (482.6 mm) and rated for the total weight of your equipment. Use a minimum of (4) 10/32 threaded screws per rack mounted device.
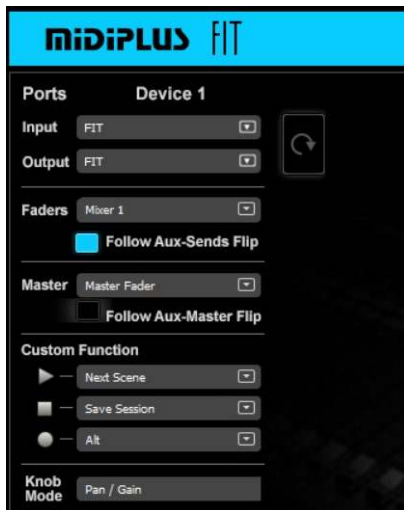
Step 1：Remove the 2 side panels

Step 2: Install the 2 rack mounting side panels

Waves eMotion LV1 Configuration

1. In the System Inventory page, select the FIT controller from the Controls drop-down menu.

2. Click on the Gear symbol to access the MIDIPLUS FIT control panel.

3. Choose input and output ports from the drop-down menus.

4. Select which LV1 mixer (Mixer 1 or Mixer 2) will be controlled by the **MIDIPLUS** FIT faders.When "Standalone" is selected, there is no correlation between the layer selected by the controller and the layer selected in the Mixer window.

5. In the eMotion LV1 "Sends on Faders" mixer mode, the channel faders control the level of the aux send, not the channel itself. Select " Follow Aux- Sends Flip " to enable controller faders to follow this behavior.

6. Use the three "Custom Function"drop-down menus to assign actions to the controller'sRecord,Stop, and Play buttons. By default, these three buttons are assigned to Next Scene,Save Session, and Alt. With the drop-down menus you can assign many other functions tothe buttons.

7. The "Knob Mode" maps the rotary encoder knobs to either pan or gain control.

Specifications

Faders	17 touch-sensitive 100mm motorized faders
Encoders	17 clickable rotary encoders
Buttons	17 RGB backlit Select buttons
	17 Blue backlit Solo buttons
	17 Red backlit Mute buttons
	16 RGB backlit Layers select and Utility buttons
Pad	1 RGB backlit Tap tempo pad
Display	17 1.14" TFT LCD
Connectivity	2 USB LED light ports
	1 USB 2.0 high speed port
	1 DC input
Power Supply	DC Power adapter (DC 12V/2.5A, center-positive)
Dimensions (W x D x H)	44.9 cm x 28.4 cm x 6.9 cm 17.6 in x 11.18 in x 2.71 in
Weight	4.28 kg / 9.43 lb.

TROUBLESHOOTING

Problem: No power.
1.   Make sure the AC outlet is alive, you can plug in a lamp to check it.
2.   Is the power supply connected to FIT correctly?
3.   Verify that the power switch is turned on.

Problem: Can't control my DAW application.
1.   Make sure the USB cable is connected and the power is turned on.
2.   Make sure you have chosen the right mode of operation for your daw, for details please see the "Changing The Mode" chapter.
3.   Quit and restart your DAW application.
4.   Go to "Control Surface - Setup" of you DAW (Logic Pro, for example), install or add a "Mackie Control" device, then choose "FIT" in the Input and Output Ports.

Problem: Can't control Waves eMotion LV1.
1.   Make sure the USB cable is connected and the power is turned on.
2.   Verify that the FIT is in the LV1 mode. Please see the previous chapter "Changing the mode" for details.
3.   Make sure you have configured your LV1 as the previous chapter "Configure in Waves eMotion LV1".

If you still haven't found a solution to your problem, you may visit **www.midiplus.com** and contact us for technical support.

APPENDIX A: LV1 and Mackie Control Mapping

FIT LABEL	LV1 Mode	Mackie Control Mode		
		Logic Pro	**Steinberg**	**Ableton Live**
Select (1 - 16)	Select 1 - 16	Select Channel	Select Channel	Select Channel
Mute (1 - 16)	Mute 1 - 16	Mute Channel	Mute Channel	Mute Channel
Solo (1 - 16)	Solo 1 - 16	Solo Channel	Solo Channel	Solo Channel
USER	User	Record Ready Channel	Record Ready Channel	Record Ready Channel
MUTE(Master)	Main Mute	Global View	Edit	Returns
SOLO(Master)	Main Solo	Solo Clear	Solo Clear	Solo Clear
TOUCH & TURN	Touch & Turn	Jog Wheel and Scrub	Jog Wheel and Scrub	Jog Wheel and Scrub
TAP	Tap	Cycle	Cycle	Loop
◀⌖▶	Utility 1	Vpot Assign	Vpot Assign	Vpot Assign
▶	Utility 2	▶	▶	▶
■	Utility 3	■	■	■
●	Utility 4	●	●	●
NEW	Utility 5	Channel left	Page Up	Channel left
CSTM	Utility 6	Channel right	Page Down	Channel right
FLIP	Utility 7	FLIP	FLIP	FLIP
SPILL	Utility 8	CTRL	Save	CTRL
		Layer Keys VPOT Mode OFF		
1	Layer 1	Autom. Read Off	Read	View Sess/Arr.
2	Layer 2	Autom. Write	Write	View Clip/Device
3	Layer 3	Autom. Latch	Mixer	View Detail
4	Layer 4	Autom. Touch	Project	View Browser
5	Layer 5	Click	Add Marker	Home
6	Layer 6	Solo	Next	End
7	Layer 7	Bank left	Bank left	Bank left
8	Layer 8	Bank right	Bank right	Bank right
		Layer Keys VPOT Mode ON		
1	Layer 1	Track	I/O	Input
2	Layer 2	Send	Send	Send
3	Layer 3	Pan	Pan	Pan
4	Layer 4	Plugin	Insert	Plugin
5	Layer 5	EQ	EQ	Page Up
6	Layer 6	Instrument	Dynamic	Page Down
7	Layer 7	Bank left	Bank left	Bank left
8	Layer 8	Bank right	Bank right	Bank right

APPENDIX B:HUI Mapping

FIT LABEL	HUI Mode	
	Pro Tools	Descriptions
Select (1 - 16)	Select/Rec Ready/V-Sel/Insert	Depending on the USER button mode
Mute (1 - 16)	Mute Channel	/
Solo (1 - 16)	Solo Channel	/
USER	Pan mode	Select 1-16 = Channel select Rotary 1-16 control Pan. Color Code = Off
	Record Ready mode	Select 1-16 = Reccord Ready. Rotary 1-16 control Pan. Color Code = Red.
	Send mode	Select 1-8 = V-Sel, control Send Pre/Post. Rotarty 1-8 control Send Level, Rotarty 9-16 control Pan. Select Send with Layer keys, See below Layer table modes. Color Code = Turquoise.
	Plugin mode	Select 1-8 = Insert. Rotary 1,3,5,7 control Plugin selection and edit. Rotary 8 Control Plugin page. Color Code = Brown.
MUTE(Master)	Option/All	/
SOLO(Master)	Rude Solo	/
TOUCH & TURN	Jog Wheel and Scrub/Shuttle	Click once for Scrub, Twice for Shuttle
TAP	Transport Window	/
◀⊙▶	Alt View	Plugin View
▶	▶	/
■	■	/
●	●	/
NEW	Transport Mode	Color Code = Green. See Below Layer Modes Table.
CSTM	Auto Mode	Color Code = Yellow. See Below Layer Modes Table.
FLIP	Channel left	/
SPILL	Channel right	/
	Layer Keys Mode SEND	
1	Send A	Select Send A
2	Send B	Select Send B
3	Send C	Select Send C
4	Send D	Select Send D
5	Send E	Select Send E
6	-	/
7	Bank left	/
8	Bank right	/
	Layer Keys Mode TRANSPORT	
1	Loop	/
2	Return To Zero	/
3	End	/
4	In	/
5	Out	/
7	Bank left	/
8	Bank right	/

		Layer Keys Mode AUTO	
1	Read	/
2	Write	/
3	Touch	/
4	Latch	/
5	Trim	/
6	Off	/
7	Bank left	/
8	Bank right	/

FC CE

www.waves.com
www.midiplus.com
FIT USER GUIDE

FIT USER GUIDE V1.7
10