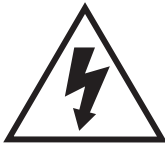




FIREHAWK FX

PILOT'S GUIDE ►

Important Safety Instructions



CAUTION
RISK OF ELECTRIC SHOCK DO
NOT OPEN



WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THE APPLIANCE TO RAIN OR MOISTURE.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.



The lightning symbol within a triangle means "electrical caution!" It indicates the presence of information about operating voltage and potential risks of electrical shock.



The exclamation point within a triangle means "caution!" Please read the information next to all caution signs.

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You should read these Important Safety Instructions. Keep these instructions in a safe place



- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- This apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- **WARNING:** To reduce the risk of fire or electric shock do not expose this apparatus to rain or moisture.
- The appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- Connect only to AC power outlets rated: 100/120V 220/240V 50/60Hz (depending on the voltage range of the included power supply).
- Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening."
- Service is required when the apparatus has been damaged in any way, such as:
 - Power-supply cord or plug is damaged.
 - Liquid has been spilled or objects have fallen into the apparatus.
 - The unit has been exposed to rain or moisture.
 - The unit is dropped or the enclosure is damaged.
 - The unit does not operate normally or changes in performance in a significant way.
- This apparatus should only be used at temperatures between 0° and 50° C.
- NB # CE2200



SERIAL NO: _____

WELCOME TO FIREHAWK FX - STAGE, STUDIO & BEYOND

Firehawk FX takes the guitar multi-effects processor to the next level by literally placing the power of great guitar tone right in the palm of your hand. The hardware delivers the sonic fortitude of Line 6 HD modeling with a flexible array of connectivity for live performance and recording. The software app leverages the power of your mobile device for alluring visual tone creation & deep editing, online tone sharing & downloads, and wireless streaming of the music library on your mobile device.

Firehawk FX Features

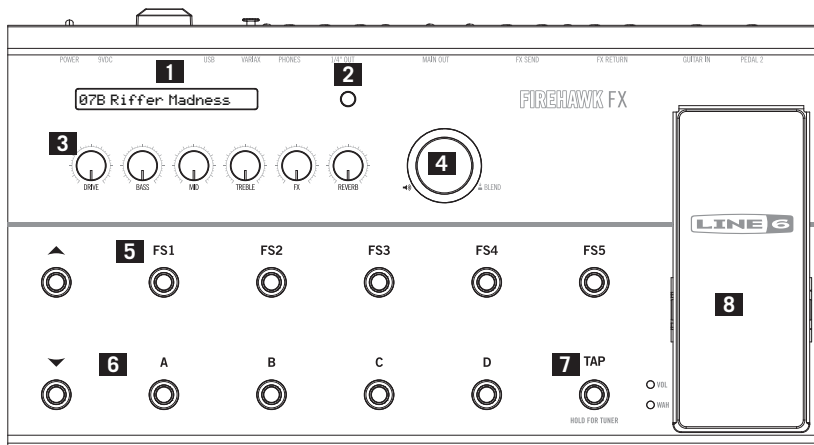
- High-performance floor effects processor
- Over 250 Classic and HD models of guitar amps, cabs, stompboxes and studio effects
- Bluetooth® audio streaming from your device (compatible with iOS, Android™, and Mac® or PC)
- Low-latency, USB direct recording to Mac®, Windows® and iPad® (iPad® requires an Apple® Camera Connection Kit adapter)

- Maximum connectivity, including Standard & Variax® Guitar Inputs, 1/4-Inch & XLR Balanced Outputs, FX Loop, Pedal Control and more!

Firehawk Remote App

- Wirelessly control and edit every aspect of your guitar rig
- Create, edit, download and share an unlimited number of tones with the Line 6 online community
- Jam along with the music that lives on your mobile device using wireless playback through **Firehawk FX**
- Made for iPhone® 6 Plus, iPhone® 6, iPhone® 5s, iPhone® 5c, iPhone® 5, iPhone® 4S, iPad® (4th generation), iPad® (3rd generation), iPad® 2, iPad® mini, iPad® mini 2, iPad® Air, and iPod touch® (5th generation)
- Compatible with many Android™ phones and tablets running Android™ 4.2 or later. See www.line6.com/android for details
- Download the latest version of the free **Firehawk Remote** iOS application in the App Store™, or get the latest version of the free **Firehawk Remote** Android™ app in the Google Play™ Store

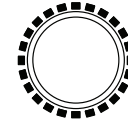
Top Panel Controls



- 1. LCD Display** - The **Firehawk FX** display is multifunctional, showing different information depending on the footswitches and modes you access. In most cases, you'll see the Bank & Preset location and title for the currently loaded tone. We cover other items shown in the LCD display throughout this Guide.
- 2. Bluetooth® Pairing Button** - Using Bluetooth® technology, your **Firehawk FX** communicates wirelessly with your mobile device. Before running the **Firehawk Remote** app, you'll need to pair **Firehawk FX** with your mobile device as follows:
 - Enter Pairing mode on the **Firehawk FX** by pressing the Bluetooth® button on the top panel - it will flash.
 - Enter Bluetooth® Pairing mode on your iOS device, or open the Bluetooth® Settings menu on your Android™ device.
 - Your **Firehawk FX** device's unique name will appear on your mobile device. Android™ users may need to select "Scan for Devices" to refresh the list of available Bluetooth® devices.
 - Select your **Firehawk FX** unit's unique name on your mobile device - this completes the pairing configuration and you are ready for wireless operation!
- 3. Tone Controls** - When using **Firehawk Remote** with your mobile device, all tone adjustments can be made using the app **Editor** screen. You can also tweak your guitar sound manually with these **Firehawk FX** onboard Tone Controls:
 - **DRIVE:** Adjusts the current Amp Model's Drive level.
 - **BASS, MID, TREBLE:** Adjusts the Bass, Mid and Treble levels for the current Amp Model's tone stack.
 - **FX:** Adjusts the FX parameter assigned to the "FX Tweak" feature as part of the Preset. This assignment can be edited in the **Firehawk Remote** app.
 - **REVERB:** Adjusts the Reverb level for the current Preset.

NOTE: Also see the later **Live Edit Mode** section for additional editing options.

- 4. Master Volume Knob** - This big knob controls the overall output level, as well as provides easy access to your guitar level and the current Amp Model's volume for individual adjustment.



Master Volume LED ring

Master Volume LED Ring - The ring of LEDs surrounding the Master Volume knob lights up in various ways, depending on the current parameter being adjusted.

- **Selectable Volume Modes:** There are three volume modes available, which are accessed by pressing the Master Volume knob to adjust each of the following parameters:
 - **Master Volume:** When the LEDs are lit red, the knob adjusts the overall volume output from the device. Press the knob once to access the Guitar Level mode.
 - **Guitar Level:** When the LEDs are lit white, the knob independently adjusts the guitar (and Variax) level. This allows you to balance the level of your guitar versus music playback. Press the knob once to access the Channel Volume mode.
 - **Amp Model Channel Volume:** When the LEDs are lit pink, the knob independently adjusts the Channel Volume for the current Preset's Amp Model. This is offered as an alternative to adjusting the Amp volume within the **Firehawk Remote** app. Press the knob once to return to Master Volume mode.
- **Tone Controls:** When any Tone knob on the device is adjusted, its current Preset-stored level is indicated by a single red LED. All other LEDs are lit white to display the current level as you turn the knob.

5. **FX Footswitches** - Footswitches (**FS1–FS5**) toggle the FX Blocks On or Off, just like a board full of analog pedals. Each footswitch can be assigned to a different FX Block per Preset, as indicated by the colored LED surrounding each footswitch. The LED colors indicate: Yellow (Compressor & Stomp), Blue (Modulation), Purple (Synth), Green (Delay), Orange (Reverb), White (Looper) and Turquoise (FX Loop). When pressing one of these footswitches, you'll also see its assigned Block description and On/Off state momentarily shown in the LCD display. All **FS1–FS5** footswitch assignments can be created and edited using the **Firehawk Remote** app. See the following **Firehawk Remote App** section for details.

6. **Preset & Bank Select Footswitches** - Firehawk FX comes loaded with 128 Presets, comprised of 4 Preset locations (**A–D**) stored within each of the Banks (**1–32**). The LCD display shows the Bank number, location and title of the currently loaded Preset.



01B Lead the Way

LCD display showing Bank, Preset location and title

Each Preset stores all of the Amp and FX parameter settings that define the characteristics of the tone, Footswitch & Controller assignments and FX Loop settings. Use the Bank and Preset Select footswitches to load and save Presets on **Firehawk FX**.

NOTE: An unlimited number of Presets can be downloaded, created, edited, saved and rearranged on your device using the mobile app! See more details in the following **Firehawk Remote App** section.

To Load a Preset: Press one of the four Preset Select footswitches (**A–D**) to load the Preset within the current Bank. The red LED around the footswitch indicates your current selection.

To Load a Preset that Resides in a Different Bank: Select the Bank, then choose the Preset Select footswitch. Use the **Bank Up** ▲ and **Bank Down** ▼ footswitches to navigate through Banks. Once you've reached the desired Bank (as indicated in the flashing LCD Display) press one of the Preset Select footswitches (**A–D**) to load

the desired Preset within the Bank. The Bank select functionality will time out after 5 seconds if no footswitch is selected.


Preset Status Indicator: Whenever you change an Amp or FX setting from its original value, a dot appears between the Preset's location number and title within the LCD Display indicating that the Preset is now in an "unsaved" state. You'll want to Save to retain your changes to the Preset.



05C.Tone 4 Days

A "dot" indicates an "unsaved" Preset state

To Save a Preset: *Press and hold* the lit footswitch that indicates your current selection to enter Save Mode. An arrow character appears at the left of the LCD Display and the entire display flashes to indicate you are in Save Mode. To exit Save Mode without making any changes, wait 5 seconds without touching any controls and the process will time out and exit automatically.



>05CTone 4 Days

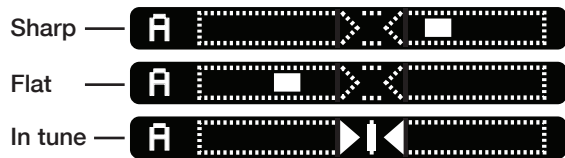
A flashing display and an "arrow" at the left indicates Save Mode

To Save the Edited Preset to the Preset's Existing Location: Simply *press and hold* the same Preset Select footswitch again. Once the display stops flashing, your edited settings are saved, overwriting the former Preset in the location.

To Save to a Different Bank and Preset Location: While in Save Mode, navigate to the desired Bank and Preset location by tapping the Bank Up/Bank Down footswitch, and then tapping the Preset Select footswitch for your preferred Preset location. The location number and title of the Preset that currently resides in this location is shown in the flashing LCD Display. *Press and hold* the Preset Select footswitch assigned to this location to **replace** the location's current Preset with your edited Preset. The LCD will stop flashing and the title of your new, saved Preset will be displayed.

7. **Tap Tempo Button** - Pressing the **TAP** button a few times sets the tempo, which Delays and other FX that offer "sync-to-tempo" can then follow. The footswitch LED flashes in time to indicate the tempo for the current Preset (the flashing behavior can optionally be disabled in the **Firehawk Remote** app).

Tuner Mode - *Press and hold* the **TAP** button for a few seconds to enter **Tuner Mode**. Pluck an individual string on your guitar and you'll see the name of the note and its pitch in the LCD, as shown below. When the graphic bar is to the right of center, your string is sharp; when it is to the left, your string is flat. When the bar is within the center range, your string is in tune. Touch any footswitch or knob to exit Tuner Mode.



The Tuner Mode displayed in the LCD screen

Note: You'll also see the LEDs around the Master Volume knob light up similarly to indicate the tuning status when in Tuner Mode.

8. **Expression Pedal** - The onboard Expression Pedal can be set to two different Pedal Modes for each Preset: **Volume/Wah Mode**, provides control of either the Volume or Wah (toggled using the pedal's toe switch), and **Tweak Mode** provides control of the same Amp or FX parameter that is assigned to the device's **FX Knob**. You can optionally connect an Expression Pedal (such as a **Line 6 EX-1**) to the **PEDAL 2** jack on the rear panel for greater control. Note that Pedal 2 is automatically detected when connected, and your Pedal functions change as described in the following *Configuring Pedal Functionality* section.

Configuring Pedal Functionality

You'll find the options for **PEDAL MODE** within the Inspector Pane of the **Firehawk Remote** app's **Editor** screen. The current Pedal Mode is also indicated by the **VOL** and **WAH** LEDs at the bottom left of the pedal. The following table shows the specific control functions for the onboard Pedal and Pedal 2 (if a Pedal 2 is connected to the device) for each Pedal Mode.

PEDAL MODE	ONBOARD PEDAL FUNCTION	PEDAL 2 FUNCTION	LED INDICATORS
WAH /VOLUME No Pedal 2	Wah /Volume Toe switch toggles Wah or Vol	Not Applicable	WAH or VOL lit respectively
WAH /VOLUME With Pedal 2	Wah Only Toe switch toggles On/Off	Volume Only	WAH lit when Wah is On
TWEAK No Pedal 2	Tweak Only Toe switch has no function	Not Applicable	WAH and VOL both lit
TWEAK With Pedal 2	Wah /Volume Toe switch toggles Wah or Vol	Tweak Only	WAH or VOL lit respectively

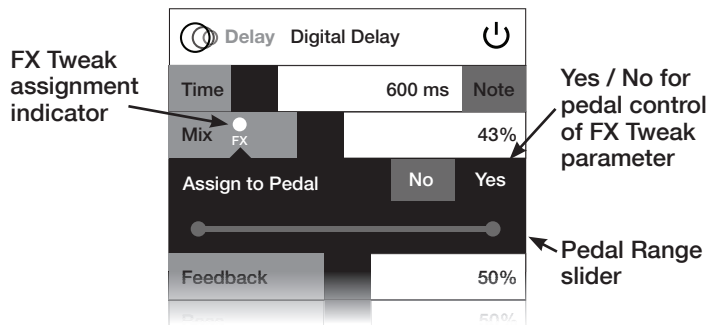
Pedal Mode Functionality

Assigning the Pedal to the FX TWEAK Parameter

Using the **Firehawk Remote** app, practically any FX parameter can be assigned to **FX TWEAK** control - allowing it to be adjusted via the **FX** knob and, optionally, by the Expression Pedal as well. To assign the **FX TWEAK** in the app:

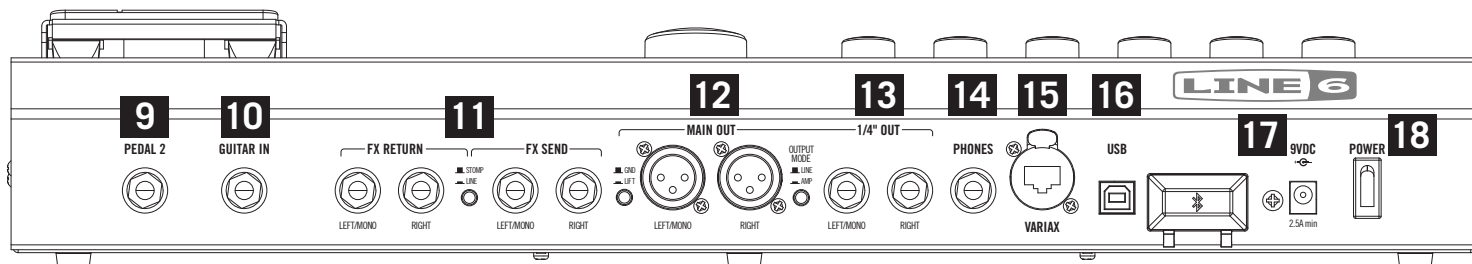
- Tap the FX block in the top of the Editor screen to edit the FX parameter you'd like to control.
- **Tap and hold** on the desired parameter slider to assign the it to **FX TWEAK** - you'll see an "FX" indicator appear on the slider.
- **Tap and hold** on the "FX" indicator to display the Pedal options.
 - Select **Yes** to control the established **FX TWEAK** parameter with the Pedal.

- Tap and drag either end of the **Pedal Range Slider** bar to set the minimum (heel-down position) and maximum (toe forward position) pedal range.



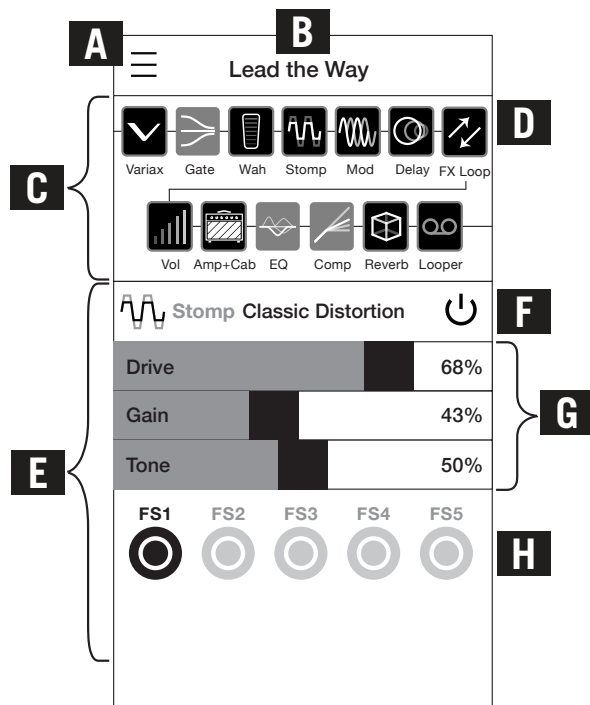
Firehawk Remote app - FX Tweak & Pedal Assign options

Rear Panel Connections



- 9. Pedal 2** - Connect an optional Expression Pedal for even more control. See the **Expression Pedal** description in the previous section.
- 10. Guitar Input** - Plug your 1/4-inch guitar cable in here.
- 11. Effects Loop** - Provides two jacks each for mono or stereo **FX SEND** and **FX RETURN**. Set the **FX LOOP LEVEL** switch to optimize the signal for either **LINE** (for line-level devices) or **STOMP** (for most “stomp box” guitar pedals). Note that the position of the **FX LOOP** Block within any Preset’s signal chain can be edited using the **Firehawk Remote** app.
- 12. XLR Output** - Connect XLR cables here for an ideal connection to recording devices or as direct sends to the house mixer, PA, or to **Line 6 StageSource**® powered, full-range speakers.* If you are experiencing hums and buzzes, set the **Ground Switch** to **LIFT** to eliminate ground loops between your equipment.
- 13. 1/4-Inch Output** - Connect 1/4-inch cables here to send your guitar signal to a guitar amplifier, recorder, mixer or PA system.*
- *NOTE:** The level and signal present on the XLR and 1/4-Inch outputs is dependent on the setting of the **OUTPUT MODE** button. See the following **Output Modes** section for more info.
- 14. Headphones (12Ω output)** - Plug your 1/4-inch stereo headphones cable in here. Headphone volume is controlled by the Master Volume knob.
- 15. Variax** - Connect your Line 6 Variax guitar here. This input captures all the Variax output and provides power to the instrument. See the following **Using a Line 6 Variax** section for more info.
- 16. USB Port** - Connect to a Mac®, Windows® computer or iPad® to utilize **Firehawk FX** as a quality Stereo In/Out, 24-Bit digital audio interface for direct recording with your favorite software.
- For Mac® or iPad®:** Just connect via USB and **Firehawk FX** is ready to use. iPad® connectivity requires the use of an iPad® Camera Connection Kit USB adapter (not included).
- For Windows®:** Download & install the Line 6 **Firehawk FX** USB ASIO® audio driver from www.line6.com/software.
- 17. Power Supply Input** - Use only the supplied Line 6 DC Power Supply connected here to power the unit.
- 18. Power** - Switch On the power with this rocker switch.

Firehawk Remote Mobile Application



Firehawk Remote App - Editor Screen

A. Menu/Back Button - Tap to reveal the slide-out **Main Menu** screen. (See the following **App Features** section for more info.) This button changes to a **Back** button within other screens.

B. Preset Title - The title for the current Preset is shown here.

C. Signal Flow Pane - Each icon button represents a Processing Block and shows the routing order and bypass state of all effects for your current tone. Tap on any Block here to select it and the Block's options are displayed within the Inspector Pane below.

D. Processing Blocks - Each of the several Block types offers its own properties and functions. Many Blocks are moveable within the signal chain, as indicated below. To move a Block, **press, hold and drag** the Block left/right in the signal chain - vertical line indicators show all available locations where you can "drop" the Block.

- **Variax Input Block** - Provides options for a Line 6 Variax guitar. See the following **Using a Line 6 Variax** section.

- **Standard Blocks** - The Amp & Cab Block contains your choice of Amp & Cab models, and the others include a "fixed" effect (Comp and Gate). Standard Blocks cannot be moved.

- **FX Blocks** - Contain a dedicated effect type (Volume, Wah & Reverb) and have some moveability.

- **Flex FX Blocks** - Can change the FX type they contain (Stomp, Mod, Delay or Pitch/Synth) and have more flexible routing capabilities.

- **Looper Block** - Displays its Volume and EQ parameters below. The Looper can also be assigned to any one of the **FS1-FS5** footswitches and can be assigned to either the start or end of the signal chain - see the **Using the Looper** section for details.

E. Block Inspector Pane - All editable parameters for the selected Block are presented here.

F. Model Select and Bypass Buttons - The Model Select button (at the left) pops up a menu to choose an Amp, Cab or FX model for the selected Block's type. The Bypass button toggles the Block On/Off.

G. Parameter Sliders - Allow adjustment for all settings for the selected Block's Amp or FX models. Note that you can **press and hold** a slider to assign the parameter to be controlled by the **FX Knob and Expression Pedal** (see **Configuring Pedal Functionality** above).

H. FS1–FS5 Footswitch Assignment Buttons - Tap the desired FS button to assign your **Firehawk FX** device's respective FX footswitch to toggle the selected FX Block On/Off. Note that the footswitch LED will match the color of the assigned FX Block model type for easy identification.

Firehawk Remote App Features

The slide-out **Main Menu** is where you'll find central access to all features in the **Firehawk Remote** app.



Editor - Edit any tone that is currently loaded by the app. Change Amp Models, FX, Footswitch & Pedal Assignments and routing of processing "Blocks" - See the previous app **Editor** section.



Hardware Presets - Browse, recall, edit, manage and back up tones saved within your **Firehawk FX** device.



Cloud Search - Search for tones from the ever-growing **Line 6 Cloud** for new guitar tones published by other **Firehawk FX** & **AMPLiFi** users just like you!



My Tones - Browse, recall, search, edit and manage the saved tones in your Line 6 account. You can also send tones to your device as hardware presets.



Tone Info/Save - Edit the tone's name and other metadata that facilitates searching & Tone Matching to songs. Save tones directly to your **Firehawk FX** or to the Cloud, or publish tones to support the **Firehawk** community.



Tuner - Get in tune quickly by using the Tuner.



Settings - View info about the app, get help, update your **Firehawk FX** device's firmware, and set preferences for music playback and tone loading.



Music Library - Jam along with tracks from your mobile device's music library and **Firehawk Remote** will serve up guitar tones to match based on the song title, artist, genre, or other tags.



Levels - Remotely adjust the "blend" of guitar to music playback volume.

Firehawk FX Device Firmware Updates

Always run the latest firmware in your **Firehawk FX** for best performance results. There are two methods for checking and installing firmware updates:

- **Using the Line 6 Updater Utility** - This is the recommended method and is fastest for device firmware updates. The **Line 6 Updater Utility** is a free software application for Mac® and Windows® available from www.line6.com/software. Download and install the utility on your computer to get started. With your **Firehawk FX** device powered On, connect it to your computer's USB port and launch the Updater Utility. It will automatically detect your connected device and inform you of available updates - Just follow the steps in the Updater Utility to install the latest firmware.
- **Using the Firehawk Remote application** - The **Firehawk Remote** app will automatically inform you whenever a device firmware update is available. It is also possible to install firmware updates from within the app - Just follow the prompts and it will walk you through the entire update process. Note that this updates the **Firehawk FX** device wirelessly via Bluetooth®, without the need for a computer or added software, however, the process takes quite a bit longer than using the Line 6 Updater Utility.

Using a Line 6 Variax

Firehawk FX supports the use of any Line 6 Variax® instrument via the **VARIAX** connection on the rear panel. And with any James Tyler® Variax® (JTV) or Variax® Standard instrument, control of alternate tunings and model/magnetic pickup switching are supported as well. For best results, use only Line 6 supplied, Variax-compatible cables – not standard Ethernet or other cables – to avoid damage to the jack. Learn more about the Variax instruments at www.line6.com.

To Edit and Save Variax guitar Model & Tone Knob options: Launch the **Firehawk Remote** app, go to the app's **Editor** screen and tap the **Variax Input** block at the left of the Signal Flow pane. The following Variax options will appear in the lower portion of the app screen.

- **MODEL CONTROLLED BY:** This is a global option that affects behavior for all **Firehawk FX** presets.
 - **When set to FIREHAWK:** The **Firehawk FX** sends the stored Variax **Model & Tone Knob** settings to the guitar upon the loading of a Firehawk Preset. If you adjust your Variax guitar's on-board settings, the Variax settings are captured and then stored within the Firehawk Preset.
 - **When set to VARIAX:** The stored **MODEL & TONE KNOB POSITION** Variax settings are *not* sent to the guitar upon loading a Firehawk preset. If you adjust your Variax guitar's on-board settings, these will be heard, but not captured or stored within the Firehawk preset.
- **TUNING CONTROLLED BY:** This is a global option that affects the behavior of all Firehawk presets.
 - **When set to FIREHAWK:** The Alt. Tunings stored within any Firehawk Preset are sent to your Variax guitar upon recall of the Preset.
 - **When set to VARIAX:** The Alt. Tunings stored within any Firehawk preset are *not sent* to your Variax guitar upon recall of the preset.

- **VARIAX STRING 1 - 6:** With a JTV or Standard Variax, you can use these six parameters to configure the tuning offset (by number of frets) you want applied to each individual guitar string. (The note value displayed assumes your guitar is tuned to standard tuning - E, A, D, G, B, E.)
- **MODEL:** Allows you to select the desired Variax guitar model & pickup position to be stored as part of the Firehawk FX preset.
- **TONE KNOB POSITION:** Allows the Variax guitar's Tone Knob value to be stored with the Firehawk preset.
- **PICKUP MODE:** (On JTV or Variax Standard guitars only.) Allows choosing the Model and Magnetic pickup options.

Variax Alternate Tuning options: Use the **VARIAX STRING 1- 6** options to edit the pitch offset individually for each string, as described above. The tuning is saved as part of the Firehawk Preset and the **Variax Tuning** option provides the option to load the saved tunings on your Variax when recalling Firehawk Presets.

Using the Looper

Firehawk FX includes a Looper, allowing you to quickly and easily record, playback and overdub loops. Use the **Firehawk Remote** app to assign the Looper to one of the **FS1–FS5** FX footswitches, change the Looper's position in the signal flow and edit the Looper Volume & EQ parameters as desired. Once assigned to a footswitch, you can access that single footswitch to trigger all the following functions:

To start recording: Press the dim white, Looper-assigned footswitch. The footswitch LED will flash red, indicating the Looper is recording.

To stop recording: Press the Looper switch again to end recording. The LED will flash green, indicating the Looper is playing back your loop.

To overdub on top of your recorded loop: Press the Looper switch again while the loop is playing. The LED will turn orange, indicating it's in Overdub Mode.

To reverse playback of your loop: *Press and hold* the Looper switch for ~2 seconds while the loop is playing. Press and hold the Looper switch again to revert back to non-reverse playback.

To stop Looper playback: Double-tap the Looper footswitch. The LED stops flashing and turns bright white, indicating a loop is stored in memory. Press the Looper footswitch again to restart playback of the stored loop.

To delete the recorded loop and start from scratch: Stop the Looper and *press and hold* the footswitch for ~2 seconds. The LED returns to dim white, indicating there is no loop in memory.

Output Modes

The **OUTPUT MODE** switch found on the **Firehawk FX** rear panel cleverly configures the audio signals sent out the XLR and 1/4-inch outputs to optimize them for your setup:

- **Line Out Mode** optimizes the guitar sound for direct recording and full-range monitoring. The signal is at line level and simulates the sound of a mic'd amp out of both the XLR and 1/4" outputs.
- **Amp Out Mode** is very different in that the guitar sound is optimized for connecting into the front of a guitar amp. The signal is at instrument level and is not appropriate to monitor through headphones or a full range system, therefore, the guitar signal is only present at the 1/4" outputs in this mode.
- Because Bluetooth® streamed audio does not typically sound best playing through a guitar amp, the 1/4" outs carry only the guitar signal when in **Amp Out Mode** – Bluetooth® audio is only present at the XLR and Headphone outs in this mode.

As shown in the following table, the guitar audio signal is optimized for a full range system versus for a guitar amp, and the level for each signal also changes with the **LINE** and **AMP** Output Mode settings.

	LINE MODE	AMP MODE
XLR Output Audio	Guitar Tone is Studio/Direct optimized Includes Bluetooth streamed playback	Bluetooth streamed playback only
XLR Output Level	8.219 dBu / 6.0 dBv	8.219 dBu / 6.0 dBv
1/4" Output Audio	Guitar Tone is Studio/Direct optimized Includes Bluetooth streamed playback	Guitar Tone only - Amplifier optimized
1/4" Output Level	Line level	Instrument level

LINE vs. AMP Mode - Audio signal type and level sent to outputs

NOTE: In either **OUTPUT MODE** setting, the **PHONES** output always receives the same audio as the XLR outputs.

Live Edit Mode

The **Live Edit Mode** allows you quick access to the individual FX parameters on the **Firehawk FX** device as an alternative to using the **Firehawk Remote** app for adjusting your FX settings. The steps are as follows.

Editing FX Parameters

- Enter **Live Edit Mode** by simultaneously pressing *both* the **Bank Up ▲** and **Bank Down ▼** footswitches. The two rows of footswitches, **FS1–FS5** and **A–D**, will alternate flashing. You'll see abbreviations for the processing blocks accessible for each row of footswitches are displayed in the LCD to help you choose what you want to edit. As indicated, the FX and Looper blocks are accessed via **FS1–FS5** and the Amp, Cab & EQ are accessed via **A–C**.



The LCD displays the editable blocks for the row of flashing footswitches

The following table describes how the different processing Blocks are indicated on the device while in **Live Edit Mode**.

BLOCK TYPE	ABBREVIATION IN LCD SCREEN	FOOTSWITCH LED COLOR
Drives & Dynamics	DRU	Yellow
Compressor	CMP	
Filters, Synths & Pitch	SYN	Purple
Modulation	MOD	Blue
Delays	DLY	Green
Reverb	REU	Orange
FX Loop	FXL	Turquoise
Looper	LPR	White
Amp	AMP	Red
Speaker Cabinet	CAB	
Preset EQ	PEQ	

- **Select a Block to Edit:** Press the footswitch assigned to the Block that you wish to edit. You'll see the LCD first show the full name of the selected Block's current model, and then display the current model's first parameter - now you're ready for editing.

Digital Delay → DLY:Time 430ms

First the full model name is shown, then its first editable parameter

- **To Edit the Current Parameter:** Move the device's **Expression Pedal** or **Master Volume Knob** to adjust the editable value. Or, press the **Bank Up ▲** or **Bank Down ▼** footswitches to adjust the value in fine increments. You'll see the parameter's current value indicated in the LCD and by the Master Volume knob's LED ring.
- **To Edit a Different Parameter:** Repeatedly press the same footswitch to cycle through all editable parameters for the current model.

- You can adjust the value for one parameter, then simply tap the footswitch again to edit another. Your edited values are all retained until you exit **Live Edit Mode**, at which point you choose to Save or discard them.
- Note that Model Select option allows you to choose a different model type, which then becomes assigned to the current footswitch.
- **To Edit a Different Block:** Press any other **FS1–FS5** or **A–D** footswitch to access its assigned block. You'll then be able to edit its current model, or load a different model, using the same steps mentioned above.
- **To Exit Live Edit Mode:** Press both the **Bank Up ▲** and **Bank Down ▼** footswitches *simultaneously*.

Be sure to Save to retain your edited settings. See the previous **6. Preset & Bank Select Footswitches** section for details on Save Mode.

NOTE: The device's Tone, Reverb & FX knobs and the Tap Tempo footswitch all continue to function while in **Live Edit Mode**.

Factory Reset & Pedal Calibration

Performing a Factory Reset restores the **Firehawk FX** to the original factory settings and Presets. **Be sure to use the Firehawk Remote app to back up your customized Presets before performing a Factory Reset!** After performing a Factory Reset, it is recommended that you next perform the Pedal Calibration for proper Pedal operation.

- **Factory Reset:** Simultaneously press and hold the **Master Volume Knob** and the **TAP** footswitch as you power on the unit.
- **Pedal Calibration:** Power Off your **Firehawk FX** device, then press and hold footswitch **A** while powering On the unit. Follow the steps in the LCD screen to calibrate the on-board Expression Pedal.

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