# Freestyle Pro™

## KINESIS
### COMPUTER ERGONOMICS

# User Manual

ErgoExpo®
Attendees'
Choice
Awards
WINNER
2017

KB900

Mac/Windows/PC
Switchable
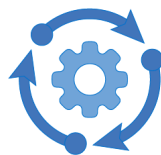
SmartSet™
Programming Engine

Cherry Low-Force
Mechanical Keyswitches

# Freestyle Pro™

Keyboard models covered by this manual:

• KB900-brn

April 20, 2018 Edition

This manual covers features included through firmware version 1.0.0. To download the latest firmware and to access all support resources visit www.kinesis.com/support.

To shop for accessories visit https://www.kinesis-ergo.com/products/:
• Palm Supports (AC903)- Detachable Palm Supports.
• VIP3 Pro (AC920)- Adjustable tenting accessory and Palm Supports (5°/10°/15°). Palm Supports required for tenting.
• V3 Pro (AC930)- Adjustable tenting accessory (5°/10°/15°) for use without Palm Supports.
• Palm Pads (AC700blk)- Cushioned palm pads for use with Palm Supports.

**FCC Radio Frequency Interference Statement**

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 when the equipment is operated 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

**Warning**

To assure continued FCC compliance, the user must use only shielded interfacing cables when connecting to computer or peripheral. Also, any unauthorized changes or modifications to this equipment would void the user's authority to operate.

**INDUSTRY CANADA COMPLIANCE STATEMENT**

This Class B digital apparatus meets all requirements of the Canadian Interface-causing Equipment Regulations.

Cet Appareil numerique de la classe B respecte toutes les exiginces du Reglement sur le material broilleur du Canada.

# Table of Contents

# 1.0 Read Me First

## 1.1 Health and Safety Warning

Continuous use of any keyboard may cause aches, pains or more serious cumulative trauma disorders such as tendinitis and carpal tunnel syndrome, or other repetitive strain disorders.

- Exercise good judgement in placing reasonable limits on your keyboarding time every day.

- Follow established guidelines for computer and workstation setup.

- Maintain a relaxed keying posture and use a light touch to press the keys.

### Keyboard is not a medical treatment

This keyboard is not a substitute for appropriate medical treatment! If any information in this guide appears to contradict your health care professional's advice, please follow your health care professional's advice.

### No warranty of injury prevention or cure

Kinesis bases its product designs on research, proven features and user evaluations. However, because of the complex set of factors believed to contribute to computer-related injuries, the company can make no warranty that its products will prevent or cure any physical ailment. Your particular risk of injury may be affected by workstation and chair design, posture, time worked without breaks, type of work, activities outside the workplace, and/or individual physiology.

## 1.2 Quick Start Guide

If you are eager to get started, please consult the included Quick Start Guide. The Quick Start Guide can also be downloaded from KinesisGaming.com/Support. Consult this full User Manual for detailed descriptions of both basic and advanced features.

## 1.3 Read This User's Manual

Even if you don't normally read manuals or you are a long-time user of Kinesis keyboards, we strongly encourage you to review this entire manual. The Freestyle Pro is a fully-programmable keyboard with powerful tools and features. If you unknowingly execute a programming shortcut or key combination, you could inadvertently alter the layout of your keyboard which might necessitate a Hard Reset of the keyboard.

If you have no plans to re-program the keyboard and would like to disable all programming features see Section 4.11.

# 2.0 Keyboard Overview

## 2.1 Specifications

- Compact tenkeyless design with standard US ANSI key layout

- 6' USB cable and 20" adjustable linking cable

- 2 year limited warranty

- Dimensions: 1.25" tall x 15.5" wide x 7.25" deep

- Weight: 2.8 lbs

## 2.2 Features

- Premium Cherry® MX Brown mechanical switches

- Multi-platform compatibility

- SmartSet Programming Engine

- SmartSet Programming App for Windows & Mac (pre-loaded on the v-Drive)

- 9 dual-layer, fully-programmable layouts (including Mac and Dvorak)

- 4MB onboard memory (v-Drive™)

- Multimedia controls (embedded Fn layer)

- Integrated Numeric 10-Key (embedded Fn layer)

- 8 pre-programmed hotkeys to boost productivity

- Available Game Mode & NKRO Mode

## 2.3 Package Contents

- Freestyle Pro mechanical keyboard

- SmartSet Programming App for Windows & Mac (preinstalled on the v-Drive)

- 4 Mac keycaps and keycap puller

- Quick Start Guide

## 2.4 System Requirements

- Windows® 7-10, MacOS® X v10.6+, Chrome OS®  or Linux® & full-size USB Port

## 2.5 Installation

To install the Freestyle Pro simply plug the USB cable into a full-size USB port on your computer. The Pro does not require the installation of any special software or drivers or an internet connection.

# 3.0 Introduction

## 3.1 Dual Layer Layouts (Embedded Fn Layer)

The Freestyle Pro has two separate layers so each of the 95 full-size keys can be programmed to perform two unique actions per Layout, a top layer action and an "embedded" Fn layer action. Tap the Fn key to toggle between the top layer and the Fn layer. The Fn indicator light will illuminate while the Fn layer is active.

Embedded actions are legended in blue.
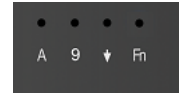
## 3.2 Multimedia Actions

Change your audio on the fly by accessing the 6 standard multimedia actions by using the Fn key to toggle on the Fn layer. These multimedia actions can be reassigned to any key on the keyboard in either layer using onboard programming (see Section 4.3) or the SmartSet App (see Section 5).

Mute   Volume Down   Volume Up   Play/Pause   Previous Track   Next Track

## 3.3 Programming Cluster

The four Programming Cluster keys enable quick and easy onboard reprogramming (see Section 4). The Layout key toggles between the 3 primary layouts (1, 2, and 3), the Macro key controls on-the-fly macro recording, and the Remap key controls onboard remapping (aka rebinding). The 4th key is the SmartSet Key, and it controls all onboard programming shortcuts.

SmartSet Key

The two Layout LEDs indicate which layout is currently active. The Macro LED flashes when on-the-fly macro recording is in progress. The Remap LED flashes when onboard remapping is in progress. The SmartSet LED flashes to confirm certain programming commands.

The four indicator LEDs in the upper right corner of the right key module are Caps Lock, Num Lock, Scroll Lock, and the Fn Layer.
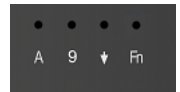
## 3.4 SmartSet Programming Engine- Onboard Shortcuts

The SmartSet key is used in conjunction with the F7-F9 & F12 keys to activate onboard shortcuts. Onboard shortcuts are legended in italics to differentiate them from embedded Fn layer actions. Additional (unlegended) onboard shortcuts are described in Sections 4.10 - 4.15.

To trigger an onboard shortcut, first press and hold the SmartSet Key and then tap F7-F9. To prevent against accidentally triggering the Soft Reset shortcut you must also press and hold Shift along with the SmartSet Key before tapping F12 ("RESET" appears in all-caps to indicate that it requires the shift key). For a detailed explanation of onboard shortcuts see Section 4.

## 3.5 Adjustable Linking Cable

The two key modules are connected by a 20" linking cable that can be adjusted to suit your preferences and body type. The basic configuration allows up to 12" of separation which is more than enough for most of the population. If you need additional cable, simply remove the cable compartment cover on the back of the left key module and thread out more of the stored cable. Once you have achieved the desired cable length, carefully fit the excess cable into the compartment  removing any kinks and slide the cable cover on until it latches.

⚠️ **Rotate the left key module as needed to remove any kinks from the cable so it lies flat.** ⚠️

Position the key modules at shoulder width and/or rotate them slightly to achieve a neutral wrist position for an ergonomically optimal typing position. Start with a small separation or modest rotation and work your way up to the position that feels most comfortable.

## 3.6 Hotkeys

The Freestyle Pro features 8 pre-programmed hotkeys designed to eliminate repetitive key strokes and awkward key combinations. Layouts 1 and 3-9 are configured for Windows users. Layout 2 is configured for Mac users.



- Desktp: Toggles to your desktop view.

- Last App: Toggles to the last active application window

- Select All: Selects all text or items in the active window (application specific)

- Undo: Undoes the last action (application specific)

- Cut: Cuts the selected text to the clipboard

- Delete: Deletes text to the right of the cursor

- Copy: Copies the selected text to the clipboard

- Paste:  Pastes the selected text from the clipboard after a Cut or Copy

## 3.7 Mac Users

Mac users should load Layout 2 which relocates the modifiers on the bottom row of the Pro to match a Mac keyboard, updates the 8 hotkeys, and transforms the Print Screen key into the Mac screen shot command. Layout 2 can be further customized by Mac users. Mac users should use the keycap removal tool to swap the 4 Mac keycaps.



## 3.8 Dvorak Typists

Dvorak typists should load Layout 3 for a Dvorak layout.

# 4.0 SmartSet Onboard Programming

The SmartSet Engine lets you custom program the Freestyle Pro without installing any software or special drivers on your computer. Custom layouts and settings are saved directly to the v-Drive so they move with the keyboard. There are three ways to program your Freestyle Pro: 1) Onboard Programming (all O/S), 2) the SmartSet Programming App (Windows & Mac), and Direct Programming (all O/S). Onboard programming is a lets you build custom layouts (remaps & macros) and adjust keyboard settings with simple onboard shortcuts.

## 4.1 Layouts (Layout or SmartSet + Number Row)

The Freestyle Pro puts 9 fully-programmable, dual-layer layouts at your disposal. Each layout can be custom configured for different applications, computers, or users. The two LEDs above the Layout Key indicate the active layout.

Tap the Layout Key to toggle through the three primary layouts (Layouts 1-3). To jump directly to any of the nine layouts, hold the SmartSet Key and then tap 1-9 in the number row to select the layout you wish to load (Run a Status Report to confirm the active layout).



Layout 1   Layout 2   Layout 3   Layouts 4-9
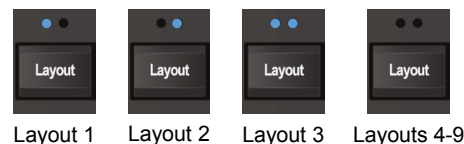
## 4.2 Recording Macros

A macro is string of characters or key actions that is triggered by a single key press. Macros are powerful tools that allow you to eliminate awkward key combinations and repetitive key strokes. Macros are assigned to the active layout when recorded and each layout can store 24 macros, each up to 300 characters long.



To record a macro on-the-fly, tap the Macro key in the Programming Cluster to enter Macro Record Mode, choose your trigger key(s) and then type out your macro. Tap the Macro key stop recording.
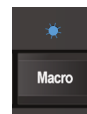
### Macro Trigger Key(s)

After entering Macro Record Mode, the Macro LED will flash rapidly prompting you to select a trigger key or key combination. Any full-size non-modifier key can be used as a macro trigger. A macro can also be triggered by a two-key combination by pairing the primary trigger key with a modifier-key "co-trigger". To assign a key combination as a macro trigger, first press and hold one of the six standard modifier keys (either the left or right Ctrl, Alt or Shift) and then tap the desired primary trigger key. The Windows key is not recommended for use as a macro co-trigger.

### Macro Contents

After a valid macro trigger has been selected, the Macro LED will flash slowly prompting you to begin recording your macro (open an appropriate program during recording). Every single keystroke will be recorded so if you make a mistake, we recommend restarting rather than using backspace key. To stop recording and save your macro, simply tap the Macro key. *Note: Macro Record Mode will end automatically when you hit the max length of 300 keystrokes.*

The speed at which you type out the macro and pauses between keystrokes are <u>not</u> recorded. The macro will playback at the Global speed setting (see Section 4.6) by default, but the playback can be customized by adding internal timing delays or by setting an custom playback speed for that specific macro using the SmartSet App (see Section 5) or Direct Programming (see Section 6.5).

**Macro Playback**

To playback a macro, simply press the trigger key(s). Modifier co-triggers should be pressed first and held while the primary trigger key is then tapped. See Sections 4.6 and 6.5 to adjust the playback speed.

**Erasing a Macro**

To erase a macro onboard, simply tap the Macro key, then input the trigger key(s) of the macro you wish to erase. Once the Macro LED starts flashing slow, simply tap the Macro key again to record an "empty" macro.

**Macro Limit**

Each layout can accommodate 24 macros. When you have reached the limit the keyboard will flash when if you tap the Macro key to signal that you must erase a macro before recording a new one.

## 4.3 Remapping Keys

With the Remap key, you can reassign any default key action on the Freestyle Pro to any other full-size key (in either layer) to customize the layout . The only key that cannot be remapped onboard is the Fn key but the Fn key can be remapped using the SmartSet App or Direct Programming.

Tap the Remap key to enter Remap Mode. The Remap LED will flash rapidly to prompt you to first select the "Source" key action (i.e., the key action that you wish to assign). After selecting the Source key, the LED will flash slowly prompting you to select the "Destination" key position (i.e., the physical key that you wish to perform the new action). Once you select the Destination key Remap Mode will end.

**Remapping Tips**

- Remapping is a one-way process, it creates a duplicate key action but it does not "swap" two key actions. To "swap" two keys you must perform two separate remap programming commands.

- Remapping only operates on one layer at a time. To remap the same key in both layers you must perform two separate remap commands, one for each layer.

- While Remap Mode is active, you can use the Fn key to navigate between layers as necessary if you wish to move a key action (e.g., the media keys) from the Fn layer to the top layer, or vice versa.

- While Remap Mode is active, the keyboard reverts back to the default QWERTY layout.

**Special Actions**

If you would like to assign a key action that is <u>not</u> present in the default Pro layout, you can select from a menu of supported Special Actions using the SmartSet App or Direct Programming (see Sections 5 and 6.3).

**Macro and Remap conflict**

It is possible to assign a macro and a remap to the same physical key. In that event, the macro playback will take priority over the remap action when you press that key, <u>except</u> when macros have been temporarily disabled (see Section 4.6).

## 4.4 Run Status Report (SmartSet + F7)

Use the Status Report to "print-to-screen" a convenient report of the current global keyboard settings.

⚠️ *Make sure you have a text editing program (e.g., Notepad, Word) selected as the active window before running a Status Report.* ⚠️

- Layout> Indicates the active layout currently loaded to the keyboard (1-9).

- Remaps> Indicates the number of remapped keys in the active layout

- Macros> Indicates the number of macros saved to the active layout (including the hotkeys)

- Macro Speed> Indicates the "Global" speed at which all macros are played back (see Section 4.6)

- Status Report Speed> Indicates the Speed at which the Status Report is played

```
Model> FS Pro

Firmware> 1.0.0.us (4MB), 07/15/2017

Active Layout> 1

Remaps> 0

Macros> 8

Macro Speed 0-9> 3

Game Mode> Off

NKRO Mode> Off

Status Report Speed 0-4> 3
```

## 4.5 Open/Close v-Drive (SmartSet + F8)

The Freestyle Pro features a 4MB virtual drive called the "v-Drive" which is the heart of the SmartSet Programming Engine. During normal use the v-Drive is hidden from your computer but it can be temporarily "opened" using the onboard shortcut to 1) run the SmartSet Programming App (see Section 5), 2) to Direct Program layouts and settings files (see Section 6), 3) or to install a firmware update (see Section 4.12).

*Note: It is not necessary to access the v-Drive for basic keyboard use.*

When you use the onboard shortcut to open the v-Drive your computer will now recognize the keyboard as a Removable Storage Device called "FS PRO". The specific appearance and location of the "FS PRO" drive on your computer will depend on your operating system.

- Windows: If a pop-up doesn't appear, open File Explorer and look under "This PC"

- Mac: If the drive does not appear on the desktop, look under "DEVICES"

- Linux : Look in "MY COMPUTER"

- Chrome: Look in "FILES"
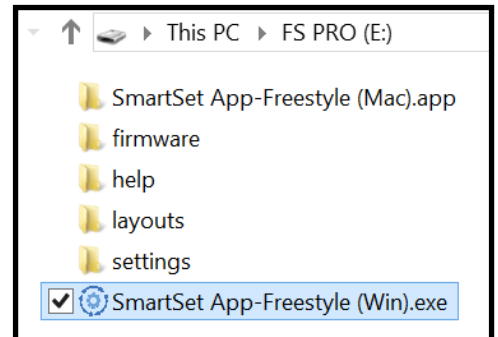


*File Explorer view of "FS PRO" removable v-Drive*

⚠️ **Keep the v-Drive closed when not in use** ⚠️

For best results, keep the v-Drive closed when not using the SmartSet App and refrain from re-programming the keyboard using onboard shortcuts while the v-Drive is open. *Note: The keyboard's multimedia and mouse actions are disabled while the v-Drive is open.*

**Closing the v-Drive**

Before closing the v-Drive, always save your work and close all .txt files and the SmartSet App. You can use the shortcut to close the v-Drive (LEDs will flash) or you can simply unplug the keyboard. If you receive a message from your computer that the "FS PRO" device was not ejected properly you may safely ignore it.

## 4.6 Adjust Global Macro Speed (SmartSet + F9, then number row)

The Freestyle Pro can playback macros at one of nine different speeds, ranging from a super-slow 4 characters-per-second (CPS) up to a blazing fast 3,000 CPS! The default Global speed is Speed 5, which is good for text macros but might be too fast or slow for certain key combinations depending on your computer and the application. To adjust the Global speed, use the onboard shortcut to enter Macro Speed Mode and then use the number row to select a speed from 1-9. If you wish to temporarily disable macro playback without deleting any macros, chose "0" instead.

| Setting | Speed 1 | Speed 2 | Speed 3 | Speed 4 | Speed 5 | Speed 6 | Speed 7 | Speed 8 | Speed 9 |
|---|---|---|---|---|---|---|---|---|---|
| Actions Per Second | 4 | 8 | 12 | 22 | 35 *(default)* | 62 | 85 | 125 | 250 |
| Words Per Minute | 48 | 96 | 144 | 264 | 420 | 744 | 1,020 | 1,500 | 3,000 |

*\*Playback speeds are approximate. Exact speeds will depend on the length of the macro, your computer, and the active application.*

*Note: You can override the Global speed setting and assign a custom, individual playback speed for any given macro using the SmartSet App (see Section 5) or Direct Programming (see Section 6.5).*

## 4.7 Enable/Disable NKRO Mode (SmartSet + Shift + F10)

NKRO ("n-key rollover") mode is a special operating mode that allows the keyboard to register all simultaneous key-presses. Most standard keyboards limit the number of keys you can press at one time to six (aka "6KRO"). If you press more than 6 keys at a time on a 6KRO keyboard, the keyboard may fail to register some of those key-presses. 6KRO is fine for basic typing and will work for most keyboard users a majority of the time, but some keyboard enthusiasts prefer NKRO for maximum performance. Use the onboard shortcut to toggle NKRO Mode on and off (the Pro will take a second to re-enumerate). NKRO mode will remain in effect until keyboard is unplugged or the v-Drive is opened. Confirm NKRO mode with the Status Report.

## 4.8 Soft Reset (SmartSet + Shift + F12)

## Hard Reset (SmartSet + F12 while plugging in keyboard)

Use the Soft Reset onboard shortcut to erase all remaps and macros in both layers of the active layout. *Note: Soft Reset will also erase the default macros assigned to the 8 hotkeys.* The "Reset" legend is capitalized to remind you that you need to combine the Shift key with the SmartSet key to protect you from accidentally performing a Soft Reset.

Use the Hard Reset onboard shortcut to restore all nine layouts to the QWERTY Windows configuration and to restore the Pro to its factory default settings.

*Note: Backup Mac and Dvorak layouts are not affect by either a Soft or Hard Reset.*

## 4.9 Refresh Settings (SmartSet + Layout)

The Refresh shortcut is a very important tool if you are programming the keyboard using the SmartSet App or Direct Programming. The SmartSet App is does not dynamically update and changes made do not go into effect until the v-Drive is closed. Use the Refresh onboard shortcut to implement your changes immediately.

## ⚠️ 4.10 Program Lock (SmartSet + Shift + L) ⚠️

Use the Program Lock onboard shortcut to temporarily deactivate the Programming Cluster keys. To disable Program Lock use the same onboard shortcut.

## 4.11 Update Firmware (SmartSet + Shift + U)

Periodically Kinesis will release new versions of firmware for the Freestyle Pro with new features and bug fixes. Installing new firmware is quick and easy.

1. Obtain a valid Freestyle Pro firmware file (".upd" file) from Kinesis-Ergo.com/Freestyle-Pro-Resources

2. Open the v-Drive (SmartSet + F8)

3. Save the new firmware file inside the "firmware" subfolder on the v-Drive

4. Rename the firmware file "update.upd"

5. Press SmartSet + Shift + U to initiate the update

If a valid firmware file has been used, the keyboard will flash and the lights will go off for 10-12 seconds. The keyboard will then re-enumerate with the new firmware. Run a Status Report to confirm the new firmware has been installed correctly. *Note: Custom layouts and settings are not affected by a firmware update.*

## 4.12 Adjust Status Report Playback Speed (SmartSet + Shift + F7, then 0-4)

Certain computers may have problems playing the Status Report. If you are experiencing dropped characters you can try a slower playback speed. Use the onboard shortcut to enter Status Speed Mode (LEDs will flash), then tap "1-4" to select a different speed (default speed is 3), or "0" to disable the Status Report all together.

## 4.13 Force v-Drive Open (SmartSet + F8 while plugging in keyboard)

If you wish to have the v-Drive open when you plug in the keyboard or are having difficulty accessing the v-Drive with the normal shortcut, simply hold down this shortcut while plugging in the keyboard.

# 5.0 SmartSet Programming App for Windows & Mac

The SmartSet App lets you design custom layouts, build powerful macros, and customize keyboard settings. The App works in conjunction with onboard programming, but it has several additional tools for power users.

- **Remap tools**: F13-F24, mouse actions, Fn "Shift", numeric keypad actions, Dvorak/Colemak layouts and more.

- **Macro tools**: individual playback speeds, multiplay, Windows combinations, timing delays, and various pre-configured macros.

⚠️ For detailed programming instructions consult the SmartSet App User Manual which is saved to the ⚠️ v-Drive in the "help" sub-folder.

**Launching the App**

Use the onboard shortcut to open the v-Drive then locate and open the FS Pro removable drive in the file manager program. The v-Drive has two versions of the SmartSet App pre-loaded, one for Windows users and one for Mac users. Select the appropriate version of the App based on the Operating System of the connected computer. When you open the App, you will see a prompt inviting you to watch a tutorial video or read the SmartSet App Manual for detailed usage instructions.
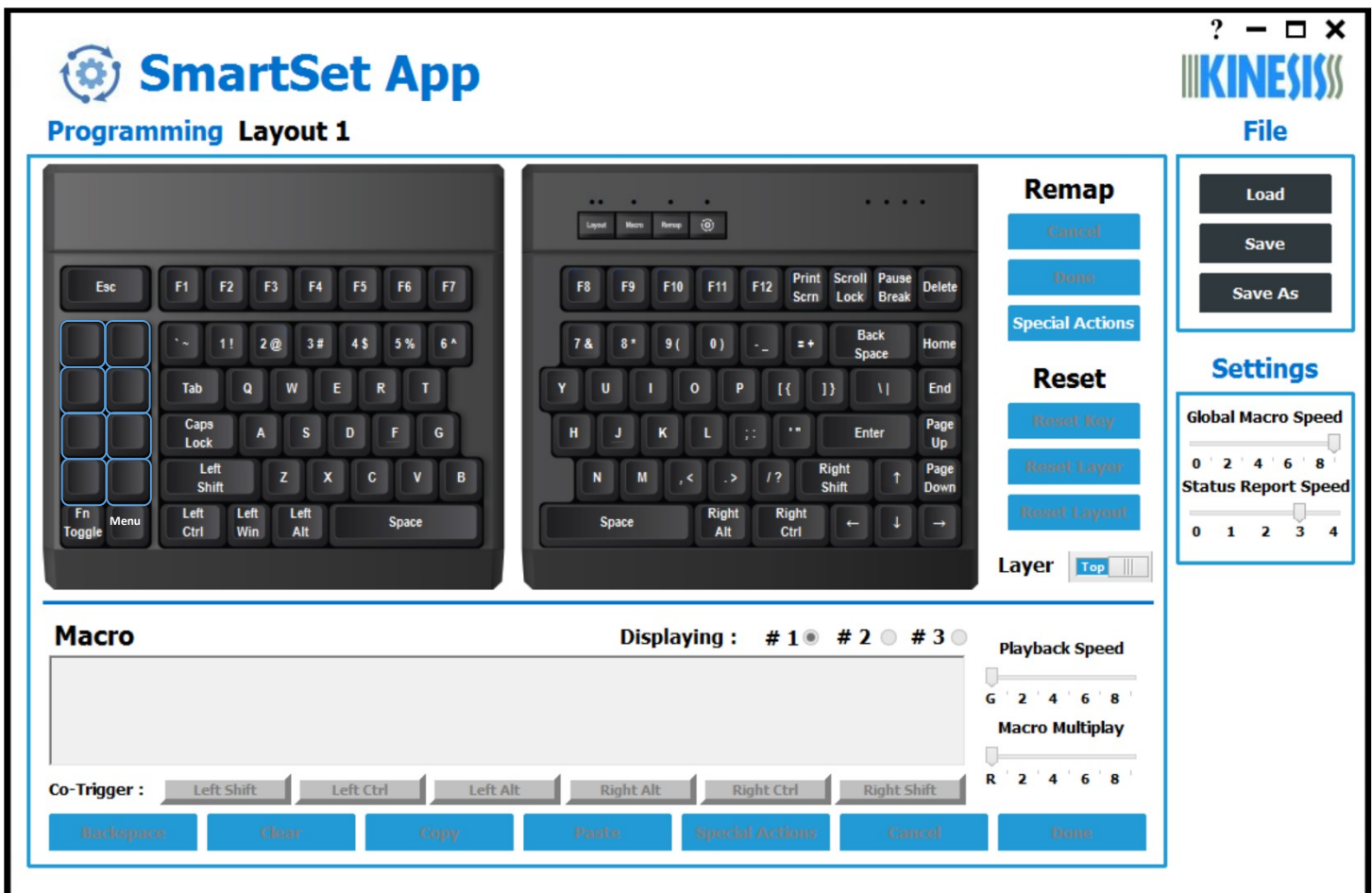


Windows version 1.3.4 shown above

# 6.0 Direct Programming

The keyboard's layouts and settings are stored on the v-Drive as a series of simple text files (.txt), which can be accessed in Windows, Linux, Mac, and Chrome. Each time a remap or macro is created, it is written to the corresponding layout .txt file as a discrete line of "code". Each time a keyboard setting is changed, the change is recorded in the appropriate field in the "kbd_settings.txt" file. Users can edit these files directly to customize keyboard layouts and settings. For those that do not have a computer that can run the SmartSet App, Direct Programming is a way to access to the various power user tools which are not otherwise available through onboard programming.

⚠️ **Eject v-Drive before closing (Windows Users)** ⚠️

After editing any .txt files on the v-Drive, it is necessary to first save and close the files, and then use the Windows eject protocol *before* closing the v-Drive. Right click the "FS EDGE" removable drive in File Explorer and select Eject. Once you receive the "Safe to Eject" notification you may proceed to closing the v-Drive with the onboard shortcut. Failure to eject can result in a minor drive error that Windows will ask you to repair (see Section 6.7).
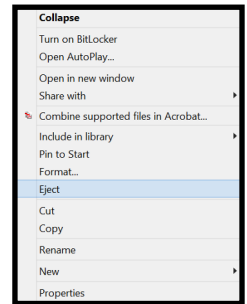
**Non-US Users**

Your computer must be configured for the English (US) keyboard layout. Other language drivers use different codes/positions for certain keys which are critical for programming characters such as [], {} and >.

## 6.1 Direct Programming Layouts

The nine default layouts are saved as separate .txt files in the "layouts" subfolder. Each layout is based on the default PC key configuration and displays the 8 pre-programmed hotkeys. Additional remaps and macros are saved to specific layout files.

Layout 2 has been customized for Mac users and Layout 3 for Dvorak typists. Deleting a layout file will permanently delete its custom remaps & macros, but the keyboard will automatically regenerate a QWERTY layout file with the 8 standard Windows hotkeys. Backup Mac and Dvorak layouts are included in the layouts subfolder for your since a Reset will always restore Layout 2 or Layout 3 as the QWERTY Windows default.

**File Naming Convention**

Only the numbered layouts can be loaded to the keyboard. Additional backup layouts can be saved as with descriptive names, but they cannot be loaded without first renaming them.
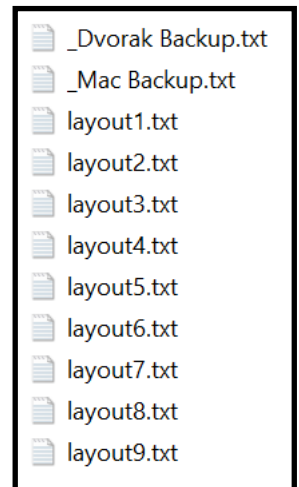
**Syntax Overview**

Remaps and macros are encoded in a layout file using a basic syntax. Each of the 95 full-size keys on the keyboard has been assigned a unique "Position" token used to identify it during programming (see Section 6.2). Each keyboard & mouse action supported by the Pro has been assigned a unique "Action" token corresponding to a standard USB "scan code" (see Section 6.3). Each line of code must include a position token and one or more action tokens. The ">" symbol is used to separate position tokens from actions tokens, and individual tokens are surrounded by brackets. Examples:

- Remaps are encoded with Square Brackets: [position]>[action]

- Macros are encoded with Curly Brackets: {position1}{position2}>{action1}{action2}{action3}...

### Layout Programming Tips

- Position tokens are always based on the default QWERTY Windows layout
- If the keyboard cannot understand the desired remap, then the default action will remain in effect.
- Do not mix and match square and curly brackets in a single line of code
- Separate each line of code with Enter/Return
- The order in which the lines of code appears in the .txt file does not generally matter, except in the event of conflicting commands, in which case the command closest to the bottom of the file will be implemented.
- Tokens are <u>not</u> case-sensitive. (see Section 6.5).
- A line of code can be temporarily disabled by placing an asterisk (*) at the beginning of the line.

## 6.2 Position Token Map

### Top Layer Position Tokens



### Fn Layer Position Tokens

In general, to designate a key position in the Fn layer, you simply encode the prefix "fn" (with a space) before the basic, top-layer token (outside the brackets). Keys with a unique embedded key action have different Fn layer position token as shown below.

## 6.4 Programming Remaps

To program a remap, encode the position token and the action token in square brackets, separated by ">".

**Remap Examples:**

1. Hotkey 1 performs Q:                                          [hk1]>[q]

2. Escape key performs Caps Lock:                                [esc]>[caps]

3. The Windows key in the Fn layer performs Right Shift:         fn [lwin]>[rshft]

4. F1 in the embedded layer performs Tab:                        fn [mute]>[tab]


## 6.5 Programming Macros

### Shifted Actions

To produce a shifted key action, it is necessary to encode a macro which includes the both the down and up stroke of the shift key surrounding the basic key action.  Downstrokes are indicated by placing a "-" inside the bracket and upstrokes are indicated by placing "+". See example 1 below.


### Individual Playback Speed Prefix {s_}

By default, all macros play at the selected "Global" playback speed. To assign a custom speed for improved playback performance for a given macro you can use the "Individual Playback Speed" prefix "{s_}". Choose a number from 1-9 corresponding to the speed scale shown Section 4.6. The speed prefix should be placed to the right of the ">" before the macro content. See example 2 below.


### Multiplay Prefix {x_}

By default, all macros playback continuously while the trigger key is held. To override the repeat feature and restrict a macro to playback a specific number of times you can use the "Macro Multiplay" prefix "{x_}". Choose a number from 1-9 corresponding to the number of times you want the macro to replay. The multiplay prefix should be placed to the right of the ">" before the macro content. See example 3 below.

⚠️ If a macro is not playing back properly, try assigning a Multiplay value of 1. The macro may actually ⚠️ be firing multiple times before you are releasing the trigger key.


### Delays

Delays can be inserted into a macro to improve playback performance or to produce a mouse double-click. Delays are available in 125 and 500 millisecond increments ({d125} & {d500}). Delay tokens can be combined to produce delays of various durations and inserted at any point in a macro. See example 4 below.


**Macro Examples:**

1. Pause key performs "Hello" with a capital H:          {pause}>{-lshft}{h}{+lshft}{e}{l}{l}{o}

2. Hotkey 5 performs  "qwerty" at speed 9:               {hk5}>{s9}{q}{w}{e}{r}{t}{y}

3. Hotkey 1 increases the volume 3 notches:              {hk1}>{x3}{vol+)

4. Tab key performs a left-mouse double click:           {tab}>{lmous}{d125}{lmous}

## 6.3 Action Token Dictionary

### Alphanumeric

| A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| M | N | O | P | Q | R | S | T | U | V | W | X |
| Y | Z | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| - | = | | | | | | | | | | |

### Function Keys

| F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 | F10 | F11 | F12 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| F13 | F14 | F15 | F16 | F17 | F18 | F19 | F20 | F21 | F22 | F23 | F24 |

### Modifiers

| Left Shift | Right Shift | Left Alt | Right Alt | Left Windows & Command | Right Windows & Command | Left Ctrl | Right Ctrl |
|------------|-------------|----------|-----------|------------------------|-------------------------|-----------|------------|
| LSHFT | RSHFT | LALT | RALT | LWIN | RWIN | LCTRL | RCTRL |

### Punctuation

| Open Bracket | Close Bracket | Period | Comma | Apostrophe | Tilde | Forward Slash | Back Slash |
|--------------|---------------|--------|-------|------------|-------|---------------|------------|
| OBRK | CBRK | PER | COM | APOS | TILDE | / | \ |

### Multimedia & Mouse Clicks

| Mute | Volume Up | Volume Down | Play/Pause | Next Track | Previous Track | Left Mouse | Right Mouse | Middle Mouse | Mouse Button 4 | Mouse Button 5 |
|------|-----------|-------------|------------|------------|----------------|------------|-------------|--------------|----------------|----------------|
| MUTE | VOL+ | VOL- | PLAY | NEXT | PREV | LMOUS | RMOUS | MMOUS | MOUS4 | MOUS5 |

### Editing & Navigation

| Enter | Tab | Space | Delete | Backspace | Home | End | Page Up | Page Down |
|-------|-----|-------|--------|-----------|------|-----|---------|-----------|
| ENT | TAB | SPC | DEL | BSPC | HOME | END | PUP | PDN |
| **Left Arrow** | **Right Arrow** | **Up Arrow** | **Down Arrow** | **Escape** | **Print Screen** | **Pause** | **Scroll Lock** | **Insert** |
| LFT | RGHT | UP | DWN | ESC | PRNT | PAUSE | SCRLK | INS |

### Numeric Keypad

| Num Lock | Keypad 1 | Keypad 2 | Keypad 3 | Keypad 4 | Keypad 5 | Keypad 6 | Keypad 7 | Keypad 8 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| NUMLK | KP1 | KP2 | KP3 | KP4 | KP5 | KP6 | KP7 | KP8 |
| **Keypad 9** | **Keypad 0** | **Keypad Plus** | **Keypad Minus** | **Keypad Divide** | **Keypad Multiply** | **Keypad Enter** | **Keypad Equals** | **Keypad Decimal** |
| KP9 | KP0 | KP+ | KP- | KP/ | KP* | KPENT | KP= | KP. |

### Miscellaneous

| Caps Lock | Fn Toggle | Fn Shift | Menu/App | International | Calculator | Shutdown | LED Toggle | 125 MS Delay | 500 MS Delay | No Key Action |
|-----------|-----------|----------|----------|---------------|------------|----------|------------|--------------|--------------|---------------|
| CAPS | FNTOG | FNSHF | MENU | INTL/ | CALC | SHTDN | LED | D125 | D500 | NULL |

## 6.6 Programming Settings

### Keyboard Settings

The current global settings for the keyboard are saved in the "kbd_settings.txt" file in the "settings" sub-folder. Users can update these settings by modifying the fields in this .txt file and then using the Refresh shortcut (SmartSet + Layout) to implement them.

- startup_file: Edit the name of the .txt file to instruct the keyboard to load a different active layout.

- macro_speed: Change the Global Macro Speed (see Section 4.7) with "1-9" for speed, or "0" to disable (default = 5).

- game_mode: Disable Game Mode with "OFF" or enable with "ON" (see Section 4.8).

- nkro_mode: Disable NKRO Mode with "OFF" or enable with "ON" (see Section 4.7).

- status_play_speed: Change the Status Report Playback speed (see Section 4.13) with "1-4" for speed, or "0" to disable (default = 3).

- program_key_lock: Disable Program Locking with "OFF" or enable with "ON" (see Section 4.11).

- v-drive: Force the v-Drive to open automatically every time the keyboard is plugged in with "auto" or require manual opening with "manual".
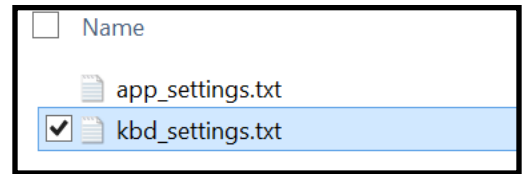
```
startup_file=layout1.txt
macro_speed=9
game_mode=OFF
status_play_speed=3
program_key_lock=OFF
v_drive=manual
```

### SmartSet App Settings

In the settings sub-folder you may also notice the "app_settings.txt" file. This file stores your saved preferences for in-App notifications when using the SmartSet App. "On" disables the notification and "Off" enables the notification.

```
app_intro_msg=on
saveas_msg=off
save_msg=on
multiplay_msg=off
speed_msg=off
copy_macro_msg=off
reset_key_msg=off
```

## ⚠️ 6.7 v-Drive Repair ⚠️

If you forget to eject the v-Drive after Direct Programming on a Windows PC as described in Section 6.0, the next time you open the v-Drive on a Windows computer you may receive a harmless drive error warning.
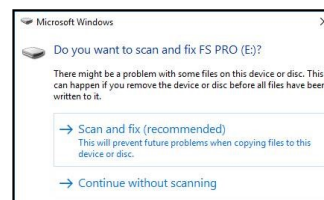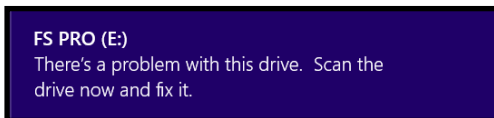
If you receive this error, follow the prompts to quickly "repair" the drive.
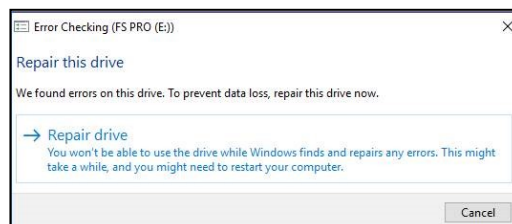
# 7.0 Maintenance

To keep your Freestyle Pro performing at its peak, we recommend periodically spraying canned air between the keycaps to remove any loose debris and wiping it clean with a damp, soft cloth (no soap).

# 8.0 Technical Support, Repairs, and Returns

Kinesis offers free, lifetime technical support Monday through Friday (excluding US Holidays) between the hours of 8:30-11:30am and 12:30-4:30pm (Pacific). Call 425-402-8100 or email tech@kinesis.com.

For FAQs, troubleshooting tips and links to other resources visit: Kinesis.com/Support.

### Return Merchandise Authorizations ("RMAs")

For any repair, regardless of warranty coverage, you must first contact Kinesis Technical Support to obtain a Return Merchandise Authorization ("RMA").

### Repairs

This product must be repaired by authorized personnel only. Unauthorized repairs may seriously jeopardize the safety of the user (such as from fire danger) and may invalidate your warranty.

### Packaging and Shipping

To ship a product back to Kinesis please use its original packaging or other suitable packaging that protects the device against impact and shock. You should insure the package with your carrier as Kinesis is not responsible for items until they are received at the Kinesis repair center. Packages sent to Kinesis without an RMA number marked on the outside of the box may be refused.

# 9.0 Warranty & Limitation of Liability

Visit www.kinesis.com/warranty for the current terms of the Kinesis Limited Warranty. Kinesis does not require any product registration to obtain warranty benefits. Proof of purchase is required for warranty repairs.

### Disclaimer of Other Warranties

The warranty and remedies described in the Kinesis Limited Warranty referenced above are exclusive and in lieu of all others, whether oral or written, express or implied. Kinesis specifically disclaims any and all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. No Kinesis dealer, agent, reseller, or employee is authorized to make any modification, extension, or addition to this warranty. Kinesis does not warrant that the product will meet your requirements, or that operation of the product will be uninterrupted or error-free, or that all errors will be corrected.

### Limitation of Liability

Kinesis is not responsible for special, incidental, or consequential damages resulting from any breach of warranty, or under other legal theory, including but not limited to lost profits, downtime, goodwill, damage to or replacement of equipment and/or property nor any costs of recovering, reprogramming, or reproducing any program or data stored in or used with Kinesis products.