

## QUICK START GUIDE

### Kinesis® Advantage2 Keyboard with the SmartSet Programming Engine

**U.S. Models: KB600, KB600QD, KB600LFQ, KB605, KB620, & KB699** (see [kinesis.com](http://kinesis.com) for non-US models)

Your Advantage2™ keyboard combines Kinesis' time-tested Contoured™ design with low-force Cherry mechanical key switches and the powerful new SmartSet™ Programming Engine™. The fully programmable Advantage2 sets a new standard for comfort and productivity. With the driverless SmartSet Programming Engine, you can quickly remap keys, record macros, build custom layouts, and access all the Onboard Programming Tools using the Program Key.

However, Power User Mode grants access to Advanced Features such as direct-editing, backup, sharing of the configuration text files, and easy firmware updates, via the integrated v-drive™ (virtual removable drive). The graphical SmartSet Programming App for Advantage2 (Windows version) is available to download at:

[kinesis.com/support/advantage2](http://kinesis.com/support/advantage2).

No special software or drivers are needed. The Advantage2 is plug-and-play with all operating systems that support full-featured USB keyboards.\*

Fig 1. KB600



This Quick Start Guide covers the installation and basic setup of the Advantage2. For detailed instructions on customizing your Advantage2, Advanced Features, and Warranty Information please download the full User's Manual at:

[kinesis.com/support/advantage2](http://kinesis.com/support/advantage2).

### Installation

1. Plug Advantage2 into your computer's USB port. A device installation notice will appear on your screen.
2. When the auto-installation is completed, you should see a "device is ready to use" notice on your screen.
3. For maximum comfort, install the self-adhesive palm pads onto the keyboard's integrated palm rests.
4. OPTIONAL: If you are connecting an Advantage foot pedal (FS007RJ11, FS007TAF) to the keyboard, plug it into the telephone-style connector at the back of the keyboard using the coupler provided with the pedal.

### Important Note

*The SmartSet Programming Engine provides powerful tools for customizing the keyboard's layout and settings. Because of the risk of inadvertent reprogramming, Kinesis recommends that ALL USERS read this Quick Start Guide before using the keyboard. Even users familiar with the original Advantage keyboard are advised to read this guide since some programming commands have changed and new commands have been added.*

### Warning

The Advantage2 keyboard is not a medical treatment. Please consult the User's Manual for basic Safety & Health Tips.

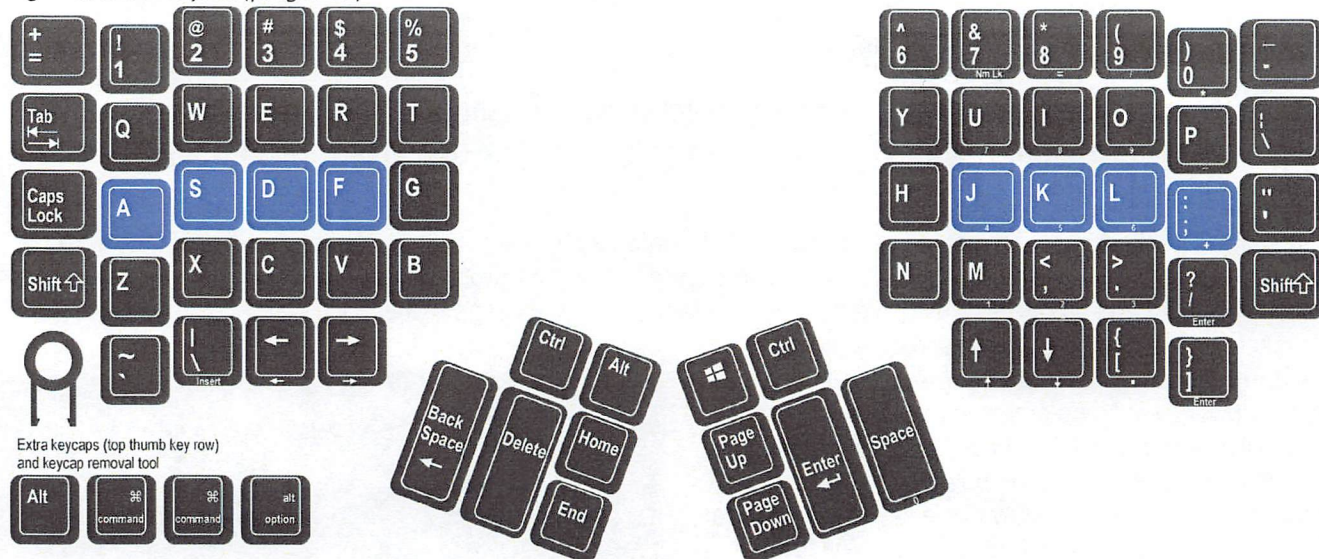
*\*Certain KVM and specialized telephony devices do not support programmable keyboards like the Advantage2. If you experience compatibility problems please visit the Advantage2 Resources page (link above) or submit a ticket to Kinesis Technical Support (page 4).*



## Default layout: QWERTY (U.S. keyboard qwerty driver)

All Advantage2 keyboards come preconfigured from the factory with the familiar QWERTY layout, but creating custom QWERTY Layouts is easy with the simple Onboard Programming Tools (see next page).

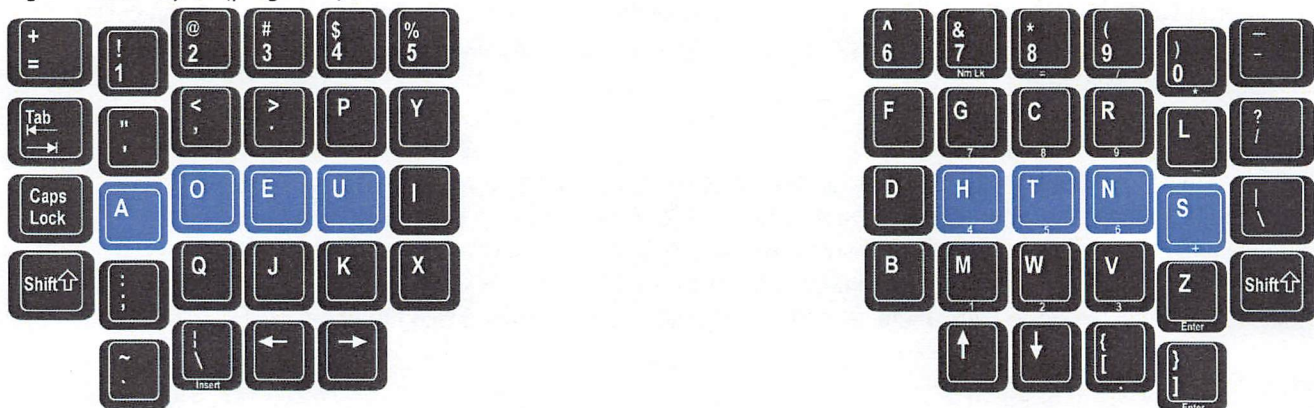
Fig 2. QWERTY Layout (prog+F3)



## Alternate Layout: Dvorak (onboard)

Every Advantage2 also comes preloaded with a customizable onboard Dvorak layout. Dvorak typists can elect to purchase the KB600QD keyboard which comes with dual-legend QWERTY-Dvorak keycaps installed, or they can upgrade any Advantage2 keyboard by purchasing a set of QWERTY-Dvorak (KC020DU-blk) or Dvorak-only keycaps (KC020DV-blk) to install themselves.

Fig 3. Dvorak Layout (prog+F4)



## Thumb Key Modes: Windows, Mac, or PC

Users may configure the modifier keys in the thumb-operated clusters in one of three modes (see next page). These modes are optimized for Windows users, Mac users, and for PC users who don't need a Windows key. Thumb Key Mode is set independently from layout (QWERTY or Dvorak) and can now be different for each layout. Thumb Key Mode defaults to the Windows configuration for the US model (PC mode is the default for the firmware used in European models to allow the right Alt to serve as Alt Gr). Extra keycaps and a keycap tool are included.

Fig 4. Windows Mode: prog+F4



Fig 5. Mac Mode: prog+F5



Fig 6. PC Mode: prog+F6





## SmartSet Programming Engine

Many users will want to move ("remap") one or more key actions. Others may want to store macros (pre-recorded key sequences) triggered by a single alphanumeric key alone or in combination with a modifier key. There are also a number of unique features (e.g. "Status Report") and settings (e.g. key clicks, toggle tones) that can be adjusted. The SmartSet Programming Engine gives you three different ways to customize keyboard settings and layouts: Onboard Programming (see below), the SmartSet App (check Kinesis website for User's Manual and availability), and for power users, Direct Programming (see Advantage2 keyboard User's Manual).

### SmartSet Onboard Programming Tools

To access the SmartSet Onboard Programming Tools, press and hold the **Program Key** (legended "prog"), then press the appropriate key in the Function Key row. One or more LEDs will flash to indicate the programming command was successful. Continuous LED flashing indicates that further actions are necessary to complete the programming command (e.g., for macros and remaps). To exit any active "Program Mode" simply tap the Program Key.

Fig 7. Function key row (Cherry low-force mechanical key switches with tactile ridges)



*Note: Actions legended in lower case require only the **Program Key** to activate, whereas actions legended in CAPS require the **Program Key** plus **Shift Key** to activate.*

### SmartSet Function Key Actions

- status** (prog+esc): Prints detailed configuration Status Report to the screen.

**Important note: The keyboard cursor must be in an active text editing screen before running Status Report!**

- qwerty** (prog+F3): Enables the **QWERTY Layout**, with any customizations.

- dvork** (prog+F4): Enables the **Dvorak Layout**, with any customizations.

- mac** (prog+F5): Enables **Mac Thumb Key Mode** (Fig 5). Also activates the Mac "keypad =" key action in the embedded numeric keypad and converts Scroll Lock to "shut down" action. **CAUTION: On a PC, "shutdown" will initiate an immediate shutdown!**

- pc** (prog+F6): Enables **PC Thumb Key Mode** (Fig 6).

- win** (prog+F7): Enables the default **Windows Thumb Key Mode** (Fig 4).

- click** (prog+F8): Turns off/on the default **Electronic Key Click** feature. This is designed to help you avoid "bottoming out" the key.

- TONE** (prog+Shift+F8): Turns off/on the **Electronic Tone** to alert users that keys for special "toggle" actions (Caps lock, Num lock, Scroll lock, Insert, Keypad) have been hit. Two tones (double beep) indicates feature is "turned on" and one tone means "turned off."

- RESET** (prog+Shift+F9): Performs a **Soft Reset** which erases any key remapping, macros, and non-default thumb key mode setting for the active layout. It does not reset macro speed, click, or tone settings. To perform a **Hard Reset** which erases all non-default settings in both QWERTY and Dvorak layouts, hold prog+F9 until LEDs start flashing while plugging in keyboard.

- macro speed** (prog+F10, then tap number row 1-9 or 0): Sets the global macro playback speed ("0" **disables** macro playback). Playback speed can also be set different from the global speed for individual macros (see User's Manual).

- prog macro** (prog+F11): Enter **Program Macro Mode**. Step 1: select the trigger key(s). LEDs will flash fast prompting selection of the trigger. One alphanumeric key alone will suffice but can be combined with one or more modifier keys to serve as the macro trigger. Step 2: type the desired macro content (LEDs flash slowly while macro contents are being recorded). To stop recording, exit Program Macro Mode by tapping the Program Key. *Note: For detailed macro programming instructions including setting individual macro playback speed and delays, see User's Manual.*

- prog remap** (prog+F12): Enter **Program Remap Mode**. Step 1: select the source key/action. LEDs will flash fast prompting selection of the source key. Step 2: select the destination key (LEDs flash slowly awaiting selection of the destination key). *Note: Program Remap Mode remains active and will continue to accept key remapping "pairs" until exiting Remap mode by tapping the Program Key. In Program Remap Mode the keyboard layout temporarily reverts to the default QWERTY or Dvorak layout (whichever is active) when selecting source actions.*

Fig 8. Status Report example (defaults shown)

```
Model> Advantage2
Firmware> 1.0.431.us (4MB), 11/14/2017
Active layout file> qwerty.txt
Thumb keys mode> win
Macro play speed> off=0, slow=1, normal=3, fast=9> 3
Status report play speed> off=0, slow=1, normal=3,
fast=4> 3
Keyclick status> on
Toggle tone status> on
Stored macros> 0
Keys remapped> 0
```



## Print Screen, Scroll Lock & Pause Break

These keys perform standard keyboard functions which will depend on your Operating System and the application.

## Multimedia Keys

The multimedia keys reside in the keypad layer and perform Mute, Volume Down, and Volume Up.

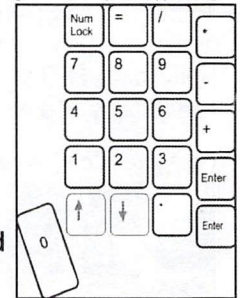
Fig 9. Volume keys in keypad Layer



## Keypad Key & Keypad layer

The Keypad Key toggles on a second virtual keyboard layer (the "keypad layer") where remapped keys and macros can be stored, and with default multimedia and 10-key actions (Figs 9 & 10). Default keypad actions which differ from the top layer are legended on the front of the main keys and in blue on the function keys. The Keypad action can be remapped to another key (see Fig 7 for remapping "keypad shift" and User's Manual for remapping "keypad toggle"). *PC Note: Num Lock must be on for numeric 10-Key actions to be produced.*

Fig 10. 10-Key in Keypad Layer



## Remapping to or from the Keypad Layer

You may remap keys from **Keypad Layer** to the **Top Layer** and vice versa. Simply tap the Keypad Key before or during the remap process to move between the two keyboard layers. For example, to remap from the **Keypad Layer** to the **Top Layer**, press the Keypad Key to enter the **Keypad Layer**, enter Remap Mode, tap the source action key, press the **Keypad Key** (keypd) to enter the Top Layer, and then tap the destination key.

## Optional foot pedal to access keypad layer

Frequent Keypad Layer users will benefit from an Advantage foot pedal (purchased separately, see Fig 12) which can be used to temporarily "shift" the Keypad Layer on by pressing and holding the pedal. The pedal can also be re-programmed (see below).

## Palm pads and integrated palm rest

The palm rests are designed to provide comfortable support for your hands while not actively typing, though many users do rest their palms while typing to relieve strain on the neck and shoulders. For maximum typing speed hold your palms slightly above the palm rests. Do not expect to reach all of the keys while resting palms on the palm rests. For maximum comfort, install the self-adhesive palm pads. Replacement pads are available for purchase.

## LED Indicator Lights

The blue LEDs located near the center of the keyboard indicate the status of the keyboard. The LEDs will illuminate when each of the four basic modes is active (see Fig 11). These LEDs also flash during SmartSet programming actions (slow or fast) to indicate the keyboard's temporary programming status.

Fig 11. Keyboard LEDs



## Connecting an optional foot pedal (Fig 12)

Plug the foot pedal into the telephone-style (RJ11) connector at the back of the keyboard. The single foot pedal (and middle pedal on the triple foot pedal) acts as "keypad shift" — press to activate keypad layer and keypad LED, release to return to top level. It can also be custom-programmed just like any key.

Fig 12. Advantage2 Triple Pedal (FS007TAF)



\*or with single pedal (FS007RJ11)

## Power User Mode - Advanced Features

For information on enabling **Power User Mode** to access Advanced Features (Fig. 13), please consult the User's Manual.

Fig 13. Advanced features

Heavy Duty Macros	Macro Playback Speed Adjustment	Firmware Updates	Hotkey Layouts
View/Share/Backup Layouts	Custom Key Actions with Tokens & Hex Codes	Direct-Editing of Layout .txt Files	Accessing the V-Drive™

## Resources

To download the User's Manual or the latest version of the Advantage2 firmware, please visit [kinesis.com/support/advantage2](https://kinesis.com/support/advantage2). For further support, please submit a ticket at [kinesis.com/support/contact-a-technician](https://kinesis.com/support/contact-a-technician).