

**iCON**

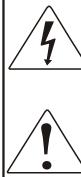
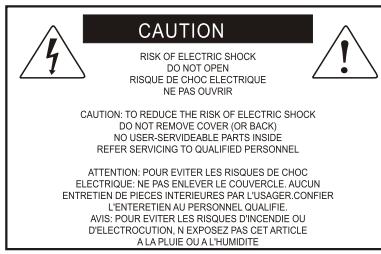
**Virtual 6/8 FH**

61/88-note velocity-hammer action semi-weighted piano-style keys  
USB MIDI controller keyboard with "VirtualPort™"  
matrix technology



N1630

User manual



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 electric shock to persons. Le symbole clair avec point de fl che l'int rieur d'un triangle quel que ral est utilis pour alerter l'utilisateur de la pr sence l'int rieur du coffret de voltage dangereux non isol d'ampleur suff

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. Le point d'exclamation l'int rieur d'un triangle quel que ral est employ pour alerter les utilisateurs de la pr sence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.

## Important Safety Instructions

1. Read this manual thoroughly before using this unit.
2. Keep this manual for future reference.
3. Take notice of and comply with all warnings included in the user's manual or indicated on the appliance.
4. Follow all instructions included in this manual.
5. Do not expose this unit to rain or moisture. Avoid having water or other liquids spilled on this unit.
6. When cleaning the cabinet or other parts of this appliance, use only a dry or slightly damp soft cloth.
7. Do not block any ventilation openings or interfere with the proper ventilation of this unit. Install in accordance with the manufacturer's instructions.
8. Do not use or store near any heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
9. Do not interfere with 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. These are designated for your safety. If the provided plug does not fit into your outlet, consult an electrician.
10. Protect the power cord from being walked on or otherwise damaged by items placed on or against them. Particular attention should be given to the plugs, receptacles, and the point where the cord exits the appliance.
11. To avoid the risk of electrical shock, do not touch any exposed wiring while the unit is in operation.
12. Only use attachments/accessories specified by the manufacturer.
13. Unplug this unit and all connected electrical equipment during lightning storms or when left unused a long period of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the appliance has been damaged in any way or fails to operate normally.

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

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# ***Introductions***

Thank you for purchasing the ICON ProAudio Virtual FH USB MIDI controller keyboard. We sincerely trust this product will provide years of satisfactory service, but if anything is not to your complete satisfaction, we will endeavor to make things right.

In these pages, you'll find a detailed description of the features of the MVirtual FH, as well as a guided tour through its front and rear panels, step-by-step instructions for their setup and use, and full specifications.

Please register the product on our website at the below link [\*\*www.iconproaudio.com/registration\*\*](http://www.iconproaudio.com/registration):

Please follow the step by step procedures starting from input the device's serial number to your personal information etc. By registering your product online, you will entitle to several different services and after-sales supporting at our ACS help center by visiting our website at [\*\*www.iconproaudio.com\*\*](http://www.iconproaudio.com). Also, all the registered products under your account will be listed on your personal product page where you could get update information such as firmware/driver upgrade, software bundle and user manual download etc for your device.

As with most electronic devices, we strongly recommend you retain the original packaging. In the unlikely event the product must be returned for servicing, the original packaging (or reasonable equivalent) is required.

With proper care and adequate air circulation, your Virtual FH will operate without any trouble for many years. We recommend that you record your serial number in the space provided below for future reference.

## ***What's in the package?***

- Virtual 6 FH / Virtual 8 FH - 61/88-note velocity-sensitive semi-weighted piano-style keys USB MIDI controller keyboard x 1
- Quick Start Guide x 1
- USB 2.0 cable x 1

# **Register your ICON ProAudio product to your personal account**

## **1. Check serial number of your device**

Please go to <http://iconproaudio.com/registration> or scan the QR code below.



Input your device's serial number and the other information on the screen. Click "Submit".

A message will pop up showing your device information such as model name and its serial number - Click "Register this device to my account" or if you see any other message, please contact our after-sales service team

## **2. Log in to your personal account page for existing user or sign up for new user**

Existing user: Please log into your personal user page by inputting your user name and password.

New user: Please click "Sign Up" and fill in all the information.

## **3. Download all useful materials**

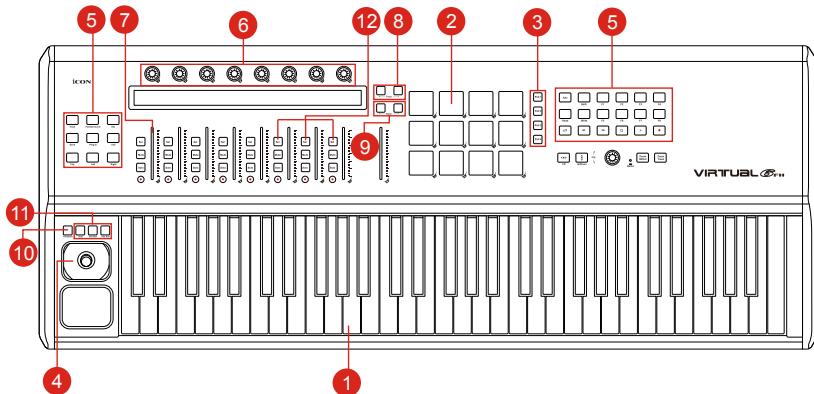
All your registered devices under your account will show on the page. Each product will be listed along with all its available files such as drivers, firmware, user manual in different languages and bundled software etc. for download. Please make sure you have download the necessary files such as driver before you begin device installation.

# Features



- Fatar velocity sensitive hammer action piano style keys
- Key switch and pads allow multi-assignment & simultaneous operation on multi- software
- The powerful controller is equipped and easily set up with Mackie Control and HUI protocol
- Semi-weighted velocity-sensitive piano style keyboard
- Combined pitch/modulation joystick
- 8 x dual function encoder knobs (Enter & rotate)
- 8+1 assignable faders
- 12 integrated velocity-sensitive trigger pads send MIDI notes or control data
- X/Y touchpad
- "Hold", "Pad Roll" & "Key Roll" feature buttons are equipped for Pad & Key rolling effect when using with the touchpad
- Large backlit LCD to display channel name, control values etc. for each channel
- 62 assignable buttons
- Jog wheel shuttle for fast search and control
- Illuminated buttons for each channel including Rec-enable, Solo, Mute and Select
- 6 illuminated transport buttons including Play, Stop, Rec, Rewind, Fast forward and Loop
- Illuminated zoom key with 4 direction keys
- Single Transpose button use combines with key switch to shift pitch effectively
- Multi velocity curves available for selection (Key and Pads)
- 1 x 1 16-channels MIDI I/O
- Expression & sustain pedal TRS connectors
- Expansion slot for ICON's "Synth" series synthesizer module card
- Expansion slot for ICON's "Satellite" series USB audio interface card
- Mounting holes equipped for an optional iPad holder
- Class-compliant with Windows XP, Vista (32-bit), Windows 7 (32-bit & 64-bit), and Mac OSX (IntelMac)
- USB 2.0 high speed connectivity
- Mackie control build-in for Cubase, Nuendo, Samplitude, Logic Pro and Ableton Live
- Mackie HUI protocol build-in for Pro Tool
- User self-define mode (MIDI Learn) for other DAW such as Sonar
- Firmware upgrade available simply via USB connection and iMap software
- Template labels are included for difference popular DAW such as Cubase, Nuendo, Samplitude, Logic Pro and Ableton Live
- Robust aluminum and metal casing with Kensington lock port

## *Front Panel Layout*



**Note:** Function operates slightly difference between DAWs. Please refer to your DAW manual for each function and overlap the provided labeling template according to your current using DAW. The following description is based on the functions that operate in Apple Logic™.

## 1. 61/88-note key switches

61/88 - note velocity-sensitive semi-weighted piano-style key switches

## 2. 12 integrated velocity-sensitive trigger pads

12 integrated velocity-sensitive trigger pads send MIDI notes or control data.

### 3. Pad1-4 buttons

Switch between 4 different layer settings for the 12-pads.

## 4. Modulation & pitch bend joystick

|              |  |
|--------------|--|
| Vertically   | Adjusts the modulation effect                                    |
| Horizontally | Adjusts the pitch bend. It will return to “center” when released |

## 5. Control Buttons

Control, set, and activate the features of Virtual FH.

## 6. Knobs

The eight rotary encoder knobs are generally used for controlling the track pan position, aux send levels and EQ of your DAW. You may also preset them to adjust specific parameters within plug-ins and virtual instruments.

**Tip:** Please refer to Appendix A for Mackie Control and HUI protocol functions

## 7. Faders

Programmable fader slide to adjust linear MIDI parameters such as volume or change the midi message with iMap™ software.

**Tip:** Please refer to Appendix A for Mackie Control and HUI protocol functions

## 8. Track </> buttons

|         |   |
|---------|---|
| Track < | Shift “one” channel up for all faders (except the master channel)   |
| Track > | Shift “one” channel down for all faders (except the master channel) |

## 9. Bank </> buttons

|       |   |
|-------|---|
| Bank< | Shift “eight” channels up for all faders (except the master channel).   |
| Bank> | Shift “eight” channels down for all faders (except the master channel). |

## 10. Transpose buttons

Raise or lower the pitches (by less than an octave) played on your keyboard.

**Tip:** While pressing and holding the “Transpose” button, press a keyswitch within an octave range from the original c1 position to change the c1 to that particular switch.

**Note:** Only the first zone could be changing the pitch if several zones are set.

## 11. Hold, Pad Roll & Key Roll buttons

“Hold”, “Pad Roll” & “Key Roll” feature buttons are equipped for Pad & Key rolling effect when using with touchpad.

## 12. DAW Selector section

Virtual FH has built-in Mackie Control protocols & HUI for different DAW such as Cubase™, Samplitude™, Ableton Live™, Logic Pro™ and ProTool™. By selecting the correct DAW and Mackie control (HUI) protocol, Virtual FH has automatically mapped the major functions and work seamlessly with that DAW.

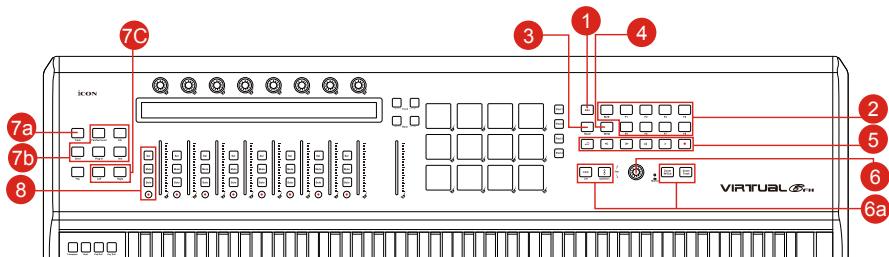
|                 |   |
|-----------------|---|
| << / >> buttons | These arrow buttons are used to scroll through the DAW list. The name of the DAW will display on the LCD. |
| DAW button      | Press to enter the DAW selection.   |

To change your Virtual FH DAW mode, turn off and on the power switch to enter the DAW selection mode. Select your desired DAW from the list with the “<<” / “>>” buttons.

**Tips:** DAW button could not be activated if a DAW software is running.

**Note:** We will update Virtual FH firmware from time to time to support additional DAW apart from the current existing list. Please check our official website to download and upgrade your Virtual FH firmware

# Control buttons layout



## 1. Advance

Advance setup for an advanced user. (Please refer to P.9 for details)

## 2. User-defined control buttons (Shift/F1-F8)

This section of control buttons is user-defined in Mackie control mode (HUI mode). You may set their parameters according to your personal needs. PVC labeling mask is included for noting the set parameters.

## 3. READ button

Press the READ button to activate the read function of the current audio track.

## 4. WRITE button

Press the WRITE button to activate the write function of the current audio track.

## 5. Transport control buttons section

|                     |  |
|---------------------|--|
| PLAY button         | Activate the play function of the DAW.         |
| STOP button         | Activate the stop function of the DAW.         |
| REC button          | Activate the record function of the DAW.       |
| REWIND button       | Activate the rewind function of the DAW.       |
| FAST FORWARD button | Activate the fast forward function of the DAW. |
| LOOP button         | Activate the loop function of the DAW.         |

## 6. Jog wheel section

The jog wheel is used for various purposes specific to the DAW application, including shuttle and scrubbing functions.

### 6a. Zoom control buttons section

|                        |  |
|------------------------|--|
| Zoom UP/DOWN button    | The Zoom UP/Down button is used to navigate up or down through the Graphical User Interface (GUI) of the DAW application.  |
| Zoom LEFT/RIGHT button | The LEFT/RIGHT button is used to navigate left or right through the Graphical User Interface (GUI) of the DAW application. |

|                    |  |
|--------------------|--|
| Zoom IN/OUT button | Zoom in or out the track horizontally. |
| Zoom Track         | Zoom in or out the track vertically.   |

## 7. Sub-control buttons

This section of control buttons varies in different DAWs. Virtual FH is based on Logic™ for the settings.

**Note:** For different DAWs the labeling may not be perfectly matched.

### 7a. Assignment section

TRACK button - Activate the track parameters of the software.

### 7b. PAN/Surround/EQ/Send/Plug-in/Instrument buttons

These buttons are used to activate the corresponding effect function of the DAW. They are typically used in conjunction with the rotary encoder knobs. Press the button, its light will turn on, and then rotate the rotary encoder knob to adjust the value, which will display on the LCD directly above.

### 7c. Left/Right buttons

On some function modes, you can scroll through the parameters that show on the LCD by pressing the left and right buttons.

## 8. Recording channel control buttons section

|              |  |
|--------------|--|
| REC buttons  | Activate and deactivate the recording state of the associated channel. The switch will light red when the channel is armed.  |
| SOLO buttons | Turn On and Off the solo state of the associated channel. The switch will light red when the channel solo state is on and other channels will be muted. You could solo multiple channel by pressing SOLO buttons on additional channels.   |
| MUTE buttons | Activate and deactivate the mute state of the associated channel. The switch will light red when the channel is muted.   |
| SEL buttons  | The SEL buttons activate the associated channels in the DAW software in order to perform a specific operation (for example, when adjusting EQ with the ASSIGNSABLE ENCODERS, the SEL switch will be used to choose the channel you want to adjust). When a channel is selected, the associated SEL switch's red LED will light up. |

# What is VirtualPort™

Virtual FH has equipped a powerful feature named VirtualPort™, to help you understand what VirtualPort™ is and its powerful features. Imagine there are four individual devices with 4 independent USB connections.

The first advantage allows you to setup these devices flexibly, you could have totally difference settings for all of these devices. For example, you may easily setup your key-switch with piano sound-bank and drum sound for your drum pad. Secondly, as there are four independent devices which will be recognised by your application, you may control four different applications simultaneously with each controller. Thirdly, each device (as listed below) is equipped with 4 VirtualPort™ that allow you to switch on or off, it works like a matrix that you can send your midi message to the other VirtualPort™ channels.

## Factory default device setting:

| Virtual FH hardware                          | VirtualPort™ preset setting | DAW naming           |
|--|-----------------------------|----------------------|
| Keyswitch                                    | VirtualPort™ 1              | USB Audio Device     |
| 12-Drum Pads                                 | VirtualPort™ 2              | USB Audio Device [2] |
| Controller (e.g. faders, knobs, button etc.) | VirtualPort™ 3              | USB Audio Device [3] |
| MIDI Out port                                | VirtualPort™ 4              | USB Audio Device [4] |

**Note:** When using Mackie Control or HUI protocol at your DAW, “USB Audio Device[3]” must be selected as the MIDI In/Out device at your DAW setting.

# Keyboard settings

ICON has invented an innovative & unique technology – VirtualPort™ (Virtual multi-USB ports matrix technology)

It allows the user to use four independent applications (software or sound bank etc) simultaneously. 5 different zones are available for key switch, each with detailed settings. The 12 pads are able to made detailed setting individually.

To enter into the Advance setting menu, press the “Advance” button. There are two main settings including “Keyboard settings” & “Pad settings”

## Advance settings

Rotate the first encoder to select “Keyboard set” and rotate the second encoder to select the sub-menu functions as below:

|                 |  |
|-----------------|--|
| Octave          | Rotate the encoder directly above each of the 5 zones showing on the LCD to change the value from (-10) – (+10).   |
| Transpose       | Rotate the encoder directly above each of the 5 zones showing on the LCD to change the value from (-12) – (+12).   |
| Channel         | Rotate the encoder directly above each of the 5 zones showing on the LCD to change the value from 1-16.  |
| Velocity        | Rotate the encoder directly above each of the 5 zones showing on the LCD to change the value from 1-12.<br><b>Note:</b> For the different velocity curve diagrams, please refer to P.39  |
| Range           | Rotate the encoder directly above each of the 5 zones to select the zone (the selected zone will be marked with “*”), then press the first & the last keys for setting the zone range.   |
| VirtualPort 1-4 | These are the VirtualPort™ Virtual matrix settings. Select On or Off for each zone with the encoders directly above the zones.   |
| MIDI Out        | This representing the MIDI out port located at the rear panle of Virtual FH. Rotate the encoder directly above each of the 5 zones showing on the LCD to change the value from Off - On. |
| Programme       | Rotate the encoder directly above each of the 5 zones showing on the LCD to change the value from 0-127.   |

## Pad settings

Rotate the first encoder to select “Pad set” and press the 12 pads to select pad one to pad twelve. Rotate the second encoder to select the sub-menu functions as below:

|                 |  |
|-----------------|--|
| Mode            | Rotate the third encoder to select MIDI message type “Note” or “Control”   |
| Channel         | Rotate the third encoder to select a value from 1-16.  |
| Velocity        | Rotate the third encoder to select value from 1-6.<br><b>Note:</b> For the different velocity curve diagrams, please refer to P.40 |
| Note            | Rotate the third encoder to select value from C4-g6.   |
| VirtualPort 1-4 | These are the VirtualPort™ Virtual matrix settings. Select On or Off for each pad with the third encoder.                          |
| MIDI Out        | This represents the MIDI out-port located at the rear panel of the Virtual FH. Rotate the third encoder to select On or Off.       |
| Layer 1-4       | There are 4 layers on the pad. Press Button “Pad1” to “Pad4” for layer 1 to layer 4 correspondently.                               |

## Reset

To reset Virtual FH to the factory default setting. Rotate the first encoder to select “Reset” and press the second encoder to activate the reset process.

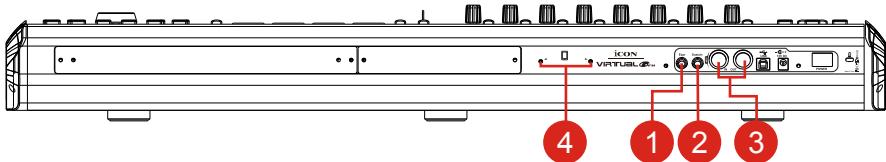
## VirtualPort™ Multi virtual USB port matrix technology

You may activate the 4 VirtualPorts on your applications very flexibly. As a maximum you can have 4 different applications running and controlled by your Virtual FH at the same time. To activate the VirtualPort™ on your PC/Mac, select the corresponding ports on your applications.

**Note:** Different OS platform might show ports name differently, some examples as below:

|            | VirtualPort 1               | VirtualPort 2                | VirtualPort 3                | VirtualPort 4                |
|------------|-----------------------------|------------------------------|------------------------------|------------------------------|
| Windows XP | USB Audio Device            | USB Audio Device [2]         | USB Audio Device [3]         | USB Audio Device [4]         |
| Windows 7  | iCON Virtual FH Vxx         | MIDIIN 2 iCON Virtual FH Vxx | MIDIIN 3 iCON Virtual FH Vxx | MIDIIN 4 iCON Virtual FH Vxx |
| Mac OSX    | Icon Virtual FH Vxxx Port 1 | Icon Virtual FH Vxxx Port 2  | Icon Virtual FH Vxxx Port 3  | Icon Virtual FH Vxxx Port 4  |

## **Rear panel layout**



### **1. Expression pedal input**

A standard expression pedal can be connected via this 1/4" input.

### **2. Sustain pedal input**

This 1/4" jack can be used to connect a momentary footswitch, like a piano's sustain pedal. (ICON SPD-01)

### **3. Midi In/Out port**

Use the MIDI Out terminal to connect an external synthesizer or sound module.

### **4. Mounting holes for iPad holder (optional)**

Please contact your local ICON dealer for purchasing the optional iPad holder (iM-01) for your Virtual FH.

# **Getting Started**

## **Connecting your Virtual FH controller**

### **1. Connect the Virtual FH to your Mac/PC via the USB port.**

Choose a USB port on your Mac/PC and insert the wide (flat) end of the USB cable. Connect the cable's small jack end to the Virtual FH. Your Mac/PC should automatically "see" the new hardware and notify you that it is ready to use.

**Note:** If your Virtual FH's LCD is blinking or the unit keeps restarting, it's very likely that your USB port is not supplying enough power to the Virtual FH. Try to change the USB port or use Virtual's power adaptor (optional).

### **2. Select the DAW at Virtual FH**

Press <</>> to scroll through the DAW list, after pressed the "DAW" button to make the selection.

**Tip:** Virtual FH will memorise your last selected DAW mode and re-enter the same mode a few seconds after it has been switched on. (i.e. DAW mode selection is not needed if the last mode is being used.)

**Tip:** For an advanced user, you may set your own midi mapping for the controller. Select "User Defined" mode when turn on Virtual FH and set the midi mapping with the iMap application provided (Refer P.22 for details).

### **2.1 Advanced settings**

Setup the key switch and pad settings under the advanced settings (Refer to P.22 for details)

### **3. Setup your DAW**

Activate the ICON Virtual FH controller in your DAW or MIDI software using "MIDI Setup" or "MIDI Devices".

For Logic<sup>TM</sup>, Cubase<sup>TM</sup> and Nuendo<sup>TM</sup>, choose Mackie Control at the "Device List".

**Note:** Every application does this a little different, so refer to your software user manual for the settings.

Please read carefully the below table showing the factory default settings of the VirtualPort™ for different sections of your Virtual FH, as well as the devices named in different OS platforms.

Different OS platform might show ports name differently, some examples as below:

|            | VirtualPort 1               | VirtualPort 2                | VirtualPort 3                | VirtualPort 4                |
|------------|-----------------------------|------------------------------|------------------------------|------------------------------|
| Windows XP | USB Audio Device            | USB Audio Device [2]         | USB Audio Device [3]         | USB Audio Device [4]         |
| Windows 7  | iCON Virtual FH Vxx         | MIDIIN 2 iCON Virtual FH Vxx | MIDIIN 3 iCON Virtual FH Vxx | MIDIIN 4 iCON Virtual FH Vxx |
| Mac OSX    | Icon Virtual FH Vxxx Port 1 | Icon Virtual FH Vxxx Port 2  | Icon Virtual FH Vxxx Port 3  | Icon Virtual FH Vxxx Port 4  |

Factory default device setting:

| Virtual FH hardware                          | VirtualPort™ preset setting | DAW naming           |
|--|-----------------------------|----------------------|
| Keyswicth                                    | VirtualPort™ 1              | USB Audio Device     |
| 12-Drum Pads                                 | VirtualPort™ 2              | USB Audio Device [2] |
| Controller (e.g. faders, knobs, button etc.) | VirtualPort™ 3              | USB Audio Device [3] |
| MIDI Out port                                | VirtualPort™ 4              | USB Audio Device [4] |

**Note:** When using Mackie Control or HUI protocol at your DAW, “USB Audio Device[3]” must be selected as the MIDI In/Out device at your DAW setting.

***Download the Mac iMap from your Personal User Page at [www.iconproaudio.com](http://www.iconproaudio.com)***

After you downloaded the file, please click it to start the installation process.

## 1. iMap™ Software for Mac OS X

Please follow the procedures below step-by-step to launch your iMapTM software to Mac OS X



Diagram 1

# ***Installing iMap™ Software for Windows***

Please follow the procedures below step-by-step to install your iMap™ software.

## 1. Turn on your PC

2. Download the Mac iMap from your Personal User Page at [www.iconproaudio.com](http://www.iconproaudio.com)

After you downloaded the file, please click it to start the installation process.

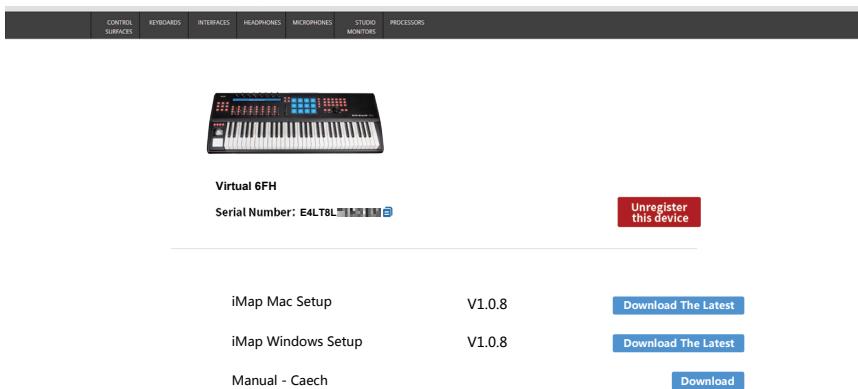


Diagram 2

### 3. Setup Wizard appear

Setup wizard appears, please click “Next”

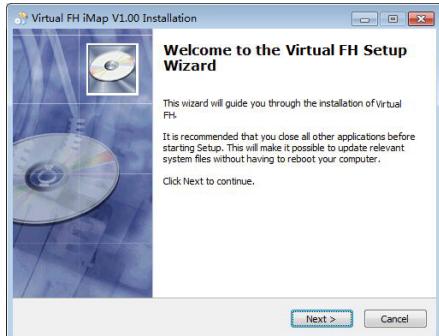


Diagram 3

### 4. Choose Install Location

Choose your preferred install location for iMap™ or use the default location and click “Next”

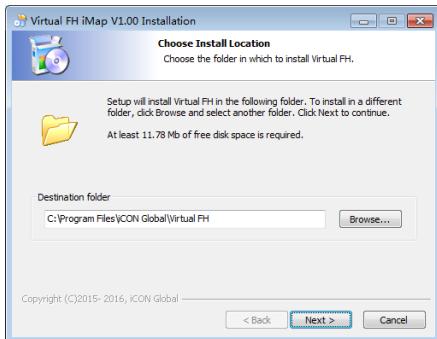


Diagram 4

### 5. Select shortcut

Select the start menu folder in which you would like to create the iMap™ shortcut. Then click “Next”.



Diagram 5

## 6. Create a shortcut on your desktop

Please untick the box if you do not want to place a shortcut icon on your desktop for iMap™, otherwise click “Next”.



Diagram 6

## 7. iMap™ started to install

The iMap™ installation has now started, wait for it to finish. Then click “Finish”.

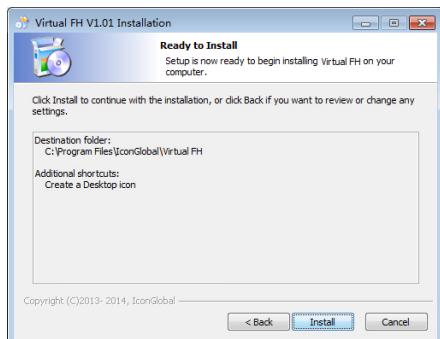


Diagram 7

## 8. Installation finished

Click “Finish” to complete the iMap™ software installation.



Diagram 8

## Assigning MIDI functions with iMap™

You can use iMap™ to easily assign the MIDI functions of your Virtual FH. It has three main sections: 'Key', "Pad" & "Controller" as described in detail below. Except for "Controller", the other two settings "Key" and "Pad" could also be setup via Virtual FH's hardware (Please refer to "Advance Setting" on P.11 for details)

**Note:** if your Virtual FH is not connected to your Mac/PC, the message "There are no MIDI input devices" will appear. Please connect Virtual FH to your Mac/PC with the provided USB cable.

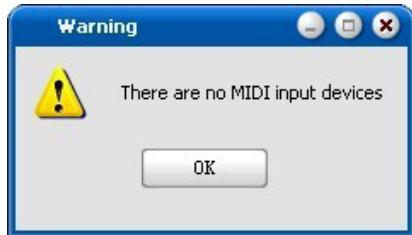


Diagram 9

# iMap™ Virtual FH software panel

## 1. Key – Assign the MIDI function to your Virtual FH's key-switch

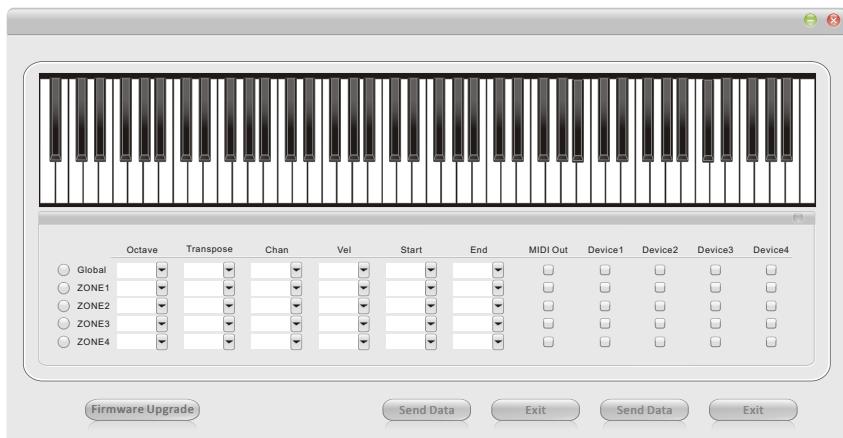


Diagram 10

You may set your Virtual FH key switches to a maximum of five different zones. Each zone can have individual settings which are shown in the table below.

|          | Settings      | Value      | Description  |
|----------|---------------|------------|--|
| Zone 1-5 | Octave        | -10 to +10 | Set the Octave value of the key-switch for the correspondence zone       |
|          | Transpose     | -12 to +12 | Set the Transpose value of the key-switch for the correspondence zone    |
|          | Channel       | 1 to 16    | Set the midi channel of the key-switch for the correspondence zone       |
|          | Velocity      | +1 to +12  | Set the velocity curve of the key-switch for the correspondence zone     |
|          | Start         | 1 to 88    | Set the first key of the correspondence zone                             |
|          | End           | 1 to 88    | Set the last key of the correspondence zone                              |
|          | MIDI Out      | On / Off   | "Check" to activate the MIDI Out VirtualPort for the correspondence zone |
|          | VirtualPort 1 | On / Off   | "Check" to activate the VirtualPort 1 for the correspondence zone        |
|          | VirtualPort 2 | On / Off   | "Check" to activate the VirtualPort 2 for the correspondence zone        |
|          | VirtualPort 3 | On / Off   | "Check" to activate the VirtualPort 3 for the correspondence zone        |
|          | VirtualPort 4 | On / Off   | "Check" to activate the VirtualPort 4 for the correspondence zone        |

**Note:** You may activate the four VirtualPort™ & the MIDI Out port for each zone, so that its message will be send to the activated port(s). To activate, “check” the corresponding check box.

## 2. Pad – Assign the MIDI function to your Virtual FH’s drum-pads

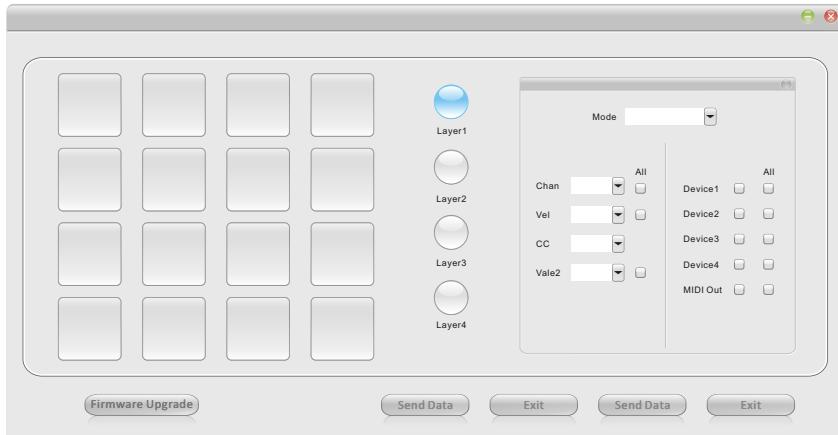


Diagram 11

There are 12-pads with four layers (48-pads in total) that you can assign a midi function independently. To assign a pad, click it (it will turn blue), and select the function on the left table as described below.

There are 3 different modes for selection including “Note”, “Control” and “Programme”. Each mode has its own midi message and setting as the table below shows.

| Mode | Settings | Value         | Description                                      | "All" Check box   |
|------|----------|---------------|--|---|
| Note | Channel  | 1 to 16       | Set the midi channel of the correspondence pad   | Check this box to assign the selected channel to all the 16-pads at the correspondence layer  |
|      | Velocity | +1 to +12     | Set the velocity curve of the correspondence pad | Check this box to assign the selected velocity to all the 16-pads at the correspondence layer |
|      | Note     | -1(C) to 9(G) | Set the note value of the correspondence pad     | -   |

|                         |            |          |   |   |
|-------------------------|------------|----------|---|---|
| "Control<br>(CC value)" | Channel    | 1 to 16  | Set the midi channel of the correspondence pad                      | Check this box to assign the selected channel to all the 16-pads at the correspondence layer  |
|                         | CC 1 value | 0 to 127 | Set the first CC value (Pad pressed down) of the correspondence pad | -   |
|                         | CC2 value  | 0 to 127 | Set the second CC value (Pad released) of the correspondence pad    | Check this box to assign the selected CC value to all the 16-pads at the correspondence layer |
| Program                 | Channel    | 1 to 16  | Set the midi channel of the correspondence pad                      | Check this box to assign the selected channel to all the 16-pads at the correspondence layer  |
|                         | Program    | 0 to 127 | Set the program value of the correspondence pad                     | -   |

**Note:** Same as the key-switch, you may activate the four VirtualPort™ & the MIDI Out port for each individual pad. So that its message will be send to the activated port(s). To activate, "check" the correspondence check box.

### 3. Controller – Assign the MIDI function to your Virtual FH's controller



Diagram 12

**Note:** If you are using Mackie Control or HUI mode, you do not need to adjust this setting. Just simply select the correct DAW mode according to your DAW when you turn on the power. (Refer P.14 for details).

Below is described the settings for more advanced users who would like to set up their own MIDI mapping for the Virtual FH controller.

### 3.1 Knobs

There are two function settings (rotate & enter) for all the knobs as the table below shows:

| Knobs Function                                | MIDI message type | Settings   | Value         | Description   | "All" Check box   |
|---|-------------------|------------|---------------|---|---|
| "Enter<br>(Click the lower part of the knob)" | Note              | Channel    | 1 to 16       | Set the midi channel of the correspondence knob   | <input type="checkbox"/> Check this box to assign the selected channel to all 8-knobs |
|   |                   | Note       | -1(C) to 9(G) | Set the note value of the correspondence knob   | <input type="checkbox"/> -  |
|   |                   | Up value   | 0 to 127      | This value will be send when releasing the pressed knob (i.e. release from enter). It will be send together with selected Note value. | <input type="checkbox"/> Check this box to assign the selected value to all 8-knobs   |
|   |                   | Down value | 0 to 127      | This value will be send when pressing down the knob (i.e. enter). It will be send together with selected Note value.                  | <input type="checkbox"/> Check this box to assign the selected value to all 8-knobs   |
|   | Control           | Channel    | 1 to 16       | Set the midi channel of the correspondence knob   | <input type="checkbox"/> Check this box to assign the selected channel to all 8-knobs |
|   |                   | CC         | 0 to 127      | Set the CC value of the correspondence knob   | <input type="checkbox"/> -  |
|   | Program           | Channel    | 1 to 16       | Set the midi channel of the correspondence knob   | <input type="checkbox"/> Check this box to assign the selected channel to all 8-knobs |
|   |                   | Program    | 0 to 127      | Set the program value of the correspondence knob  | <input type="checkbox"/> -  |

|  |   |                             |             |   |   |
|--|---|-----------------------------|-------------|---|---|
| <p>"Rotate<br/>(Click the upper<br/>part of the knob)"</p> | <p>"MCU<br/>(Mackie<br/>Control<br/>Emulation)"</p> | Channel                     | 1 to<br>16  | Set the midi<br>channel of the<br>correspondence knob   | Check this box<br>to assign the<br>selected channel<br>to all 8-knobs   |
|  |   | CC                          | 0 to<br>127 | Set the note value of<br>the correspondence<br>knob   | -   |
|  |   | Anti-<br>clockwise<br>value | 0 to<br>127 | This value will be<br>send when rotating<br>the knob anti-<br>clockwise, it will be<br>send together with<br>the selected Note<br>value | Check this box<br>to assign the<br>selected value to<br>all the 8-knobs |
|  |   | Clockwise<br>value          | 0 to<br>127 | This value will be<br>send when rotating<br>the knob clockwise, it<br>will be send together<br>with the selected<br>Note value          | Check this box<br>to assign the<br>selected value to<br>all 8-knobs     |
|  | <p>Pitch</p>  | Channel                     | 1 to<br>16  | Set the midi<br>channel of the<br>correspondence knob   | Check this box<br>to assign the<br>selected channel<br>to all 8-knobs   |
|  |   | Pitch                       | 0 to<br>127 | Set the pitch<br>bend value of the<br>correspondence knob   | -   |
|  | <p>Control</p>                                      | Channel                     | 1 to<br>16  | Set the midi<br>channel of the<br>correspondence knob   | Check this box<br>to assign the<br>selected channel<br>to all 8-knobs   |
|  |   | CC                          | 0 to<br>127 | Set the CC<br>value of the<br>correspondence<br>knob  | -   |

**Note:** You may activate the four VirtualPort™ & the MIDI Out port for each knob. So that its message will be send to the activated port(s). To activate, "check" the correspondence check box.

## 3.2 Faders

There are nine faders for the settings as the table below shows

| MIDI message type | Settings     | Value         | Description  | "ON" Check box                           | "All" Check box   |
|-------------------|--------------|---------------|--|--|---|
| Control           | Channel      | 1 to 16       | Set the midi channel of the correspondence fader                                 | -  | Check this box to assign the selected channel to all 9-faders |
|                   | CC           | 0 to 127      | Set the CC value of the correspondence fader                                     | -  | -   |
|                   | Touch Note   | -1(C) to 9(G) | Set the value that will be send as soon as fader move                            | Check this box to swicth on the function | Check this box to assign the selected value to all 9-faders   |
|                   | Return value | 1 to 16       | Set the midi channel that will be send together with the selected CC value.      | Check this box to swicth on the function | Check this box to assign the selected value to all 9-faders   |
| Program           | Channel      | 1 to 16       | Set the midi channel of the correspondence fader                                 | -  | Check this box to assign the selected channel to all 9-faders |
|                   | Program      | 0 to 127      | Set the program value of the correspondence fader                                | -  | -   |
|                   | Touch Note   | -1(C) to 9(G) | Set the value that will be send as soon as fader move                            | Check this box to swicth on the function | Check this box to assign the selected value to all 9-faders   |
|                   | Return value | 1 to 16       | Set the midi channel that will be send together with the selected Program value. | Check this box to swicth on the function | Check this box to assign the selected value to all 9-faders   |

**Note:** You may activate the four VirtualPort™ & the MIDI Out port for each fader. So that its message will be send to the activated port(s). To activate, "check" the correspondence check box.

### 3.3 Buttons

There are sixty-two buttons for the settings as the table below shows

| MIDI message type | Settings   | Value         | Description  | "All" Check box  |
|-------------------|------------|---------------|--|--|
| Note              | Channel    | 1 to 16       | Set the midi channel of the correspondence button  | Check this box to assign the selected channel to all buttons |
|                   | Note       | -1(C) to 9(G) | Set the note value of the correspondence button  | -  |
|                   | Down value | 0 to 127      | This value will be send when pressing down the button. It will be send together with the selected Note value     | Check this box to assign the selected value to all buttons   |
|                   | Up value   | 0 to 127      | This value will be send when releasing the pressed button. It will be send together with the selected Note value | Check this box to assign the selected value to all buttons   |
| Control           | Channel    | 1 to 16       | Set the midi channel of the correspondence button  | Check this box to assign the selected channel to all buttons |
|                   | CC         | 0 to 127      | Set the CC value of the correspondence button  | -  |
|                   | Value      | 0 to 127      | This value will be send when pressing down the button. It will be send together with the selected CC value       | Check this box to assign the selected value to all buttons   |
| Program           | Channel    | 1 to 16       | Set the midi channel of the correspondence button  | Check this box to assign the selected channel to all buttons |
|                   | Program    | 0 to 127      | Set the program value of the correspondence button   | -  |

#### LED synchronization check box

Check this box to activate the synchronization feature of selected buttons on the Virtual FH with DAW's correspondence button. Your DAW must have the feature with a midi message sending to the hardware, otherwise the button may not synchronize even if you have checked the box.

**Note:** You may activate the four VirtualPort™ & the MIDI Out port for each button. So that its message will be send to the activated port(s). To activate, "check" the correspondence check box.

### 3.4 Jog Wheel

With a combination of different buttons, there are virtually five different jog wheels for the settings as the table below shows. To activate a different jog wheel, click the jog wheel and a button as in the combination below.

|             |   |
|-------------|---|
| Jog Wheel 1 | Only click the jog wheel                      |
| Jog Wheel 2 | Click the jog wheel and button "Zoom </>"     |
| Jog Wheel 3 | Click the jog wheel and button "Zoom Up/Down" |
| Jog Wheel 4 | Click the jog wheel and button "Zoom In/Out"  |
| Jog Wheel 5 | Set the first key of the corresponding zone   |

| Jog Wheel Function                                   | MIDI message type | Settings   | Value         | Description   | "All" Check box   |
|--|-------------------|------------|---------------|---|---|
| "Enter<br>(Click the<br>lower part of<br>Jog wheel)" | Note              | Channel    | 1 to 16       | Set the midi channel of knob  | Check this box to assign the selected channel to all jog wheels |
|  |                   | Note       | -1(C) to 9(G) | Set the note value of knob  | -   |
|  |                   | Up value   | 0 to 127      | This value will be send when releasing the pressed knob (i.e. release from enter). It will be send together with selected Note value. | Check this box to assign the selected value to all jog wheels   |
|  |                   | Down value | 0 to 127      | This value will be send when pressing down the knob (i.e. enter). It will be send together with selected Note value.                  | Check this box to assign the selected value to all jog wheels   |
|  | Control           | Channel    | 1 to 16       | Set the midi channel of jog wheel   | Check this box to assign the selected channel to all jog wheels |
|  |                   | CC         | 0 to 127      | Set the CC value of knob  | -   |
|  |                   | Value      | 0 to 127      | Set the value that will be send together with the selected CC value.  | Check this box to assign the selected value to all jog wheels   |

|   |   |                      |               |  |   |
|---|---|----------------------|---------------|--|---|
| "Rotate<br>(Click the<br>upper part of<br>jog wheel)" | "MCU<br>(Mackie<br>Control<br>Emulation)" | Channel              | 1 to 16       | Set the midi channel of the correspondence knob  | Check this box to assign the selected channel to all buttons    |
|   |   | CC                   | 0 to 127      | Set the note value of the correspondence knob  | -   |
|   |   | Anti-clockwise value | 0 to 127      | This value will be send when rotating the knob anti-clockwise, it will be send together with the selected CC value   | Check this box to assign the selected value to all jog wheels   |
|   |   | Clockwise value      | 0 to 127      | This value will be send when rotating the knob clockwise, it will be send together with the selected CC value        | Check this box to assign the selected value to all jog wheels   |
|   | Note                                      | Channel              | 1 to 16       | Set the midi channel of knob   | Check this box to assign the selected channel to all jog wheels |
|   |   | Note                 | -1(C) to 9(G) | Set the note value of knob   |   |
|   |   | Anti-clockwise value | 0 to 127      | This value will be send when rotating the knob anti-clockwise, it will be send together with the selected Note value | Check this box to assign the selected value to all jog wheels   |
|   |   | Clockwise value      | 0 to 127      | This value will be send when rotating the knob clockwise, it will be send together with the selected Note value      | Check this box to assign the selected value to all jog wheels   |
|   | Control                                   | Channel              | 1 to 16       | Set the midi channel of the correspondence knob  | Check this box to assign the selected channel to all jog wheels |
|   |   | CC                   | 0 to 127      | Set the CC value of the correspondence knob  |   |
|   | Program                                   | Channel              | 1 to 16       | Set the midi channel of the correspondence knob  | Check this box to assign the selected channel to all jog wheels |
|   |   | Program              | 0 to 127      | Set the Program value of the correspondence knob   |   |

### 3.5 TouchPad

| MIDI message type | Settings  | Value    | Description                        | "All" Check box  |
|-------------------|-----------|----------|------------------------------------|--|
| Control           | Channel   | 1 to 16  | Set the midi channel of X & Y axis | Check this box to assign the selected channel to both X & Y axis |
|                   | CC        | 0 to 127 | Set the CC value of X & Y axis     | -  |
| Pitch             | Channel   | 1 to 16  | Set the midi channel of X & Y axis | Check this box to assign the selected channel to both X & Y axis |
|                   | Pitchbend | 0 to 127 | Set the Pitchbend of X & Y axis    | -  |

### 3.6 Joystick

| MIDI message type | Settings  | Value    | Description                        | "All" Check box  |
|-------------------|-----------|----------|------------------------------------|--|
| Control           | Channel   | 1 to 16  | Set the midi channel of X & Y axis | Check this box to assign the selected channel to both X & Y axis |
|                   | CC        | 0 to 127 | Set the CC value of X & Y axis     | -  |
| Pitch             | Channel   | 1 to 16  | Set the midi channel of X & Y axis | Check this box to assign the selected channel to both X & Y axis |
|                   | Pitchbend | 0 to 127 | Set the Pitchbend of X & Y axis    | -  |

### 3.7 Sustain Pedal

| MIDI message type | Settings   | Value         | Description   |
|-------------------|------------|---------------|---|
| Note              | Channel    | 1 to 16       | Set the midi channel of the pedal   |
|                   | Note       | -1(C) to 9(G) | Set the note value of the pedal   |
| Note              | Up value   | 0 to 127      | This value will be send when releasing the pressed pedal. It will be send together with the selected Note value |
|                   | Down value | 0 to 127      | This value will be send when pressing down the pedal. It will be send together with the selected Note value     |

|         |         |          |   |
|---------|---------|----------|---|
| Control | Channel | 1 to 16  | Set the midi channel of the pedal                           |
|         | CC      | 0 to 127 | Set the CC value of the pedal                               |
|         | Value   | 0 to 127 | Set the value that send togther with selected CC value      |
| Program | Channel | 1 to 16  | Set the midi channel of the pedal                           |
|         | Program | 0 to 127 | Set the Program value of the pedal                          |
|         | Value   | 0 to 127 | Set the value that send togther with selected Program value |

### 3.8 Expression Pedal

| MIDI message type | Settings   | Value         | Description   |
|-------------------|------------|---------------|---|
| Note              | Channel    | 1 to 16       | Set the midi channel of the pedal   |
|                   | Note       | -1(C) to 9(G) | Set the note value of the pedal   |
|                   | Up value   | 0 to 127      | This value will be send when releasing the pressed pedal. It will be send together with the selected Note value |
|                   | Down value | 0 to 127      | This value will be send when pressing down the pedal. It will be send together with the selected Note value     |
| Control           | Channel    | 1 to 16       | Set the midi channel of the pedal   |
|                   | CC         | 0 to 127      | Set the CC value of the pedal   |
|                   | Value      | 0 to 127      | Set the value that send togther with selected CC value  |
| Program           | Channel    | 1 to 16       | Set the midi channel of the pedal   |
|                   | Program    | 0 to 127      | Set the Program value of the pedal  |
|                   | Value      | 0 to 127      | Set the value that send togther with selected Program value   |

### 4. “Save file” button

Click this button to save your current settings for the Virtual FH. The file is an “.Virtual” file.

### 5. “Load file” button

Click this button to load a previously saved “.Virtual” setting file for your Virtual FH.

### 6. “Send Data” button

Click this button to upload the iMap™ software settings to your Virtual FH via USB connection.

**Note:** You must have connected your Virtual FH to your Mac/PC, otherwise the settings upload will not be successful.

## 7. “MIDI Devices” button

Click this button, a MIDI device select window will appear as shown in diagram 13. Please select “ICON Virtual FH” for the MIDI Out Devices.

**Note:** In order to upload your iMap settings to your Virtual FH. “Virtual FH” must be selected at the pop-up window after clicking the “MIDI Device” button. Make sure your Virtual FH is connected to your PC/Mac before you do the mentioned process.



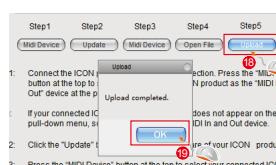
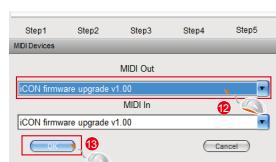
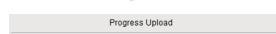
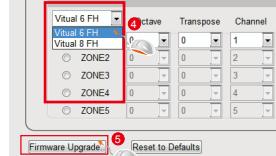
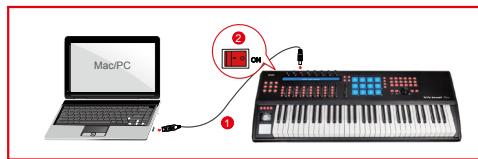
Diagram 13

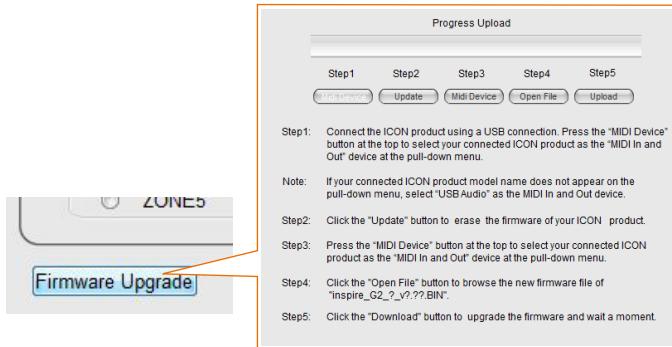
## 8. “Firmware Upgrade” button

Click this button to enter into the firmware upgrade window for Virtual FH. Please refer to P.32 for the firmware upgrade procedure.

## ***Firmware upgrade***

## Virtual FH series functional firmware upload procedure





**Step1:** Connect the ICON product using a USB connection. Press the “MIDI Device” button at the top to select your connected ICON product as the “MIDI In and Out” device at the pull-down menu.

**Note:** If your connected ICON product model name does not appear on the pull-down menu, select “USB Audio” as the MIDI In and Out device.

**Step2:** Click the “Update” button.

**Step3:** Press the “MIDI Device” button at the top to select your connected ICON product as the “MIDI In and Out” device at the pull-down menu.

**Step4:** Click the “Open File” button to browse the new firmware file.

**Step5:** Click the “Download” button to upload the firmware.

**Warning:** The firmware upload process “MUST” be completed and not be interrupted during the file uploading, otherwise the firmware may not be rewritten again.

## ***Restore the factory default settings***

To reset Virtual FH to factory default settings. Press the “Advanced” button, rotate the first encoder to select “Reset” and press the second encoder to activate the reset process.

# Specifications

|                     |                      |                               |
|---------------------|----------------------|-------------------------------|
| Connector:          | USB                  | USB connector (standard type) |
|                     | Sustain & Expression | 2x1/4" TS connectors          |
|                     | MIDI I/O             | 5-pin Din connector           |
| Power supply        |                      | 12V/100mA DC                  |
| Current consumption |                      | 100mA or less                 |
| Weight:             | Virtual 6 FH         |                               |
|                     | Virtual 8 FH         |                               |
| Dimensions:         | Virtual 6 FH         | 996(L) x 386.5(W) x 120(H)mm  |
|                     |                      | 39.2"(L) x 15.2"(W) x 4.7"(H) |
|                     | IVirtual 8 FH        | 1374(L) x 386.5(W) x 120(H)mm |
|                     |                      | 54.1"(L) x 15.2"(W) x 4.7"(H) |

# Appendix A (Mackie Control and HUI protocol functions)

Mackie Control mode function table (Logic Pro)

| Controller   | Function   | Controller   | Function   |
|--|--|--|--|
| "Encoder 1 - 8 (Rotate)<br>Use with button Track, Pan/Surround, EQ, Send, Plug-in & Inst." | Adjust parameters of channel 1-8 according to selected function (Track, Pan/Surround, EQ, Send, Plug-in & Inst.) | Button "Shift"                                     | Additional function for different controls                             |
| "Encoder 1 - 8 (Enter)<br>Use with button Track, Pan/Surround, EQ, Send, Plug-in & Inst."  | Adjust parameters of channel 1-8 according to selected function (Track, Pan/Surround, EQ, Send, Plug-in & Inst.) | Button "F1-F8"                                     | Self define functions at Logic   |
| Fader 1-8  | Channel 1-8 volume   | Button "Read"                                      | Activate the read function   |
| Fader M  | Master channel volume  | Button "Write"                                     | Activate the write function  |
| Button "(Explorer)" 1-8  | Select track 1-8   | Jog wheel (Rotate)                                 | Scrolling the play-line forward & backward                             |
| Button "M" 1-8   | Mute track 1-8   | Joe wheel (Enter)                                  | Activate & deactivate the "Click" function                             |
| Button "S" 1-8   | Solo track 1-8   | "Button ""Zoom L/R""<br>(Use with Jog wheel)"      | Switch between clips   |
| Button "(dot)" 1-8   | Record track 1-8   | "Button ""Zoom Up/ Down""<br>(Use with jog wheel)" | Scrolling and selecting track vertically                               |
| Button "Track <"   | Shift one channel up   | "Button ""Zoom In/Out""<br>(Use with jog wheel)"   | Zoom in/out track horizontally   |
| Button "Track >"   | Shift one channel down   | "Button ""Zoom Track""<br>(Use with jog wheel)"    | Zoom in/out track vertically   |
| Button "Bank <"  | Shift eight channel up   | "Button ""Track""<br>(Use with 1-8 encoders)"      | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "Bank >"  | Shift eight channel down   | "Button ""Pan/Surround""<br>(Use with jog wheel)"  | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "(Loop)"  | Activate the loop function   | "Button ""EQ""<br>(Use with encoder)"              | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "<<"  | Activate the rewind function   | "Button ""Send""<br>(Use with encoder)"            | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button ">>"  | Activate the fast forward function   | "Button ""Plug-in""<br>(Use with encoder)"         | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "(Stop)"  | Activate the stop function   | "Button ""Inst""<br>(Use with encoder)"            | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "(Play)"  | Activate the play function   | Button "Flip"                                      | Swap the parameter settings of the faders and the rotary encoder knobs |
| Button "(Rec)"   | Activate the record function   | Button "Left"                                      | Flip page backward   |
|  |  | Button "Right"                                     | Flip page forward  |

## Mackie Control mode function table (Nuendo/Cubase - PVC Overlay)

| Controller   | Function   | Controller                                     | Function   |
|--|--|--|--|
| "Encoder 1 - 8 (Rotate)<br>Use with button Pan, EQ, Inserts, Master, FX Sen & VST" | Adjust parameters of channel 1-8 according to selected function (Pan, EQ, Inserts, Master, FX Sen & VST) | "Button ""Shift""<br>Use with F1-F8 buttons"   | F9-F16 self define function  |
| "Encoder 1 - 8 (Enter)<br>Use with button Pan, EQ, Inserts, Master, FX Sen & VST"  | Adjust parameters of channel 1-8 according to selected function (Pan, EQ, Inserts, Master, FX Sen & VST) | Button "F1-F8"                                 | Self define function   |
| Fader 1-8  | Channel 1-8 volume   | Button "Save"                                  | Activate the save function   |
| Fader M  | Master channel volume  | Button "Undo"                                  | Activate the undo function   |
| Button "(Explorer)" 1-8  | Select track 1-8   | Jog wheel (Rotate)                             | Scrolling the play-line forward & backward                             |
| Button "M" 1-8   | Mute track 1-8   | Joe wheel (Enter)                              | Add marker   |
| Button "S" 1-8   | Solo track 1-8   | Button "Zoom L/R"                              | Switch between clips   |
| Button "(dot)" 1-8   | Record track 1-8   | "Button ""Zoom Up/Down"" (Use with jog wheel)" | Scrolling and selecting track vertically                               |
| Button "Track <"   | Shift one channel up   | "Button ""Zoom In/Out"" (Use with jog wheel)"  | Zoom in/out track horizontally   |
| Button "Track >"   | Shift one channel down   | "Button ""Zoom Track"" (Use with jog wheel)"   | Zoom in/out track vertically   |
| Button "Bank <"  | Shift eight channel up   | "Button ""Pan"" (Use with 1-8 encoders)"       | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "Bank >"  | Shift eight channel down   | "Button ""EQ"" (Use with 1-8 encoders)"        | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "(Loop)"  | Activate the loop function   | "Button ""Inserts"" (Use with 1-8 encoders)"   | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "<<"  | Activate the rewind function   | "Button ""Master"" (Use with 1-8 encoders)"    | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button ">>"  | Activate the fast forward function   | "Button ""FX Send"" (Use with 1-8 encoders)"   | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "(Stop)"  | Activate the stop function   | "Button ""VST"" (Use with 1-8 encoders)"       | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "(Play)"  | Activate the play function   | Button "Flip"                                  | Swap the parameter settings of the faders and the rotary encoder knobs |
| Button "(Rec)"   | Activate the record function   | Button "Page Up"                               | Flip page backward   |
|  |  | Button "Page Down"                             | Flip page forward  |

## Mackie Control mode function table (Abelton Live - PVC Overlay)

| Controller              | Function                           | Controller                 | Function                      |
|-------------------------|------------------------------------|----------------------------|-------------------------------|
| Encoder 1 - 8 (Rotate)  | Channel 1-8 pan                    | Button "View Selector"     | No function                   |
| Encoder 1 - 8 (Enter)   |                                    | Button "Track/Clip view"   | No function                   |
| Fader 1-8               | Channel 1-8 volume                 | Button "Show/Hide browser" | No function                   |
| Fader M                 | Master channel volume              | Button "Show/Clip detail"  | No function                   |
| Button "(Explorer)" 1-8 | Select track 1-8                   | Button "Prev."             | Jump to previous marker point |
| Button "M" 1-8          | Mute track 1-8                     | Button "Add"               | Add marker point              |
| Button "S" 1-8          | Solo track 1-8                     | Button "Next"              | Jump to next marker point     |
| Button "(dot)" 1-8      | Record track 1-8                   | Jog wheel (Rotate)         | -                             |
| Button "Track <"        | Shift one channel up               | Joe wheel (Enter)          | -                             |
| Button "Track >"        | Shift one channel down             | Button "Zoom L/R"          | -                             |
| Button "Bank <"         | Shift eight channel up             | Button "Zoom Up/Down"      | -                             |
| Button "Bank >"         | Shift eight channel down           | Button "Zoom In/Out"       | -                             |
| Button "(Loop)"         | Activate the loop function         | Button "Zoom Track"        | -                             |
| Button "<<"             | Activate the rewind function       | Button "I/O"               | -                             |
| Button ">>"             | Activate the fast forward function | Button "Pan"               | -                             |
| Button "(Stop)"         | Activate the stop function         | Button "Send"              | -                             |
| Button "(Play)"         | Activate the play function         | Button "Instrument Rack"   | -                             |
| Button "(Rec)"          | Activate the record function       | Button "Return"            | -                             |
|                         |                                    | Button "Flip"              | -                             |

## Mackie Control mode function table (Samplitude - PVC Overlay)

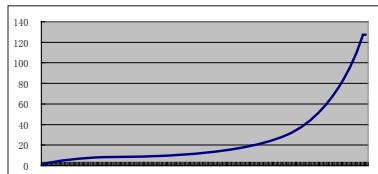
| Controller   | Function   | Controller   | Function   |
|--|--|--|--|
| "Encoder 1 - 8 (Rotate)<br>Use with button Track, Pan, EQ, Aux-Send, Insert & Mix" | Adjust parameters of channel 1-8 according to selected function (Track, Pan, EQ, Aux-Send, Insert & Mix) | "Button ""Control""<br>Use with button Marker 1-Marker8" | Delete marker point 1-8  |
| "Encoder 1 - 8 (Enter)<br>Use with button Track, Pan, EQ, Aux-Send, Insert & Mix"  | Adjust parameters of channel 1-8 according to selected function (Track, Pan, EQ, Aux-Send, Insert & Mix) | Button "Marker1-Marker8"                                 | Add marker point 1-8   |
| Fader 1-8  | Channel 1-8 volume   | Button "Read"  | Activate the read function   |
| Fader M  | Master channel volume  | Button "Write"   | Activate the write function  |
| Button "(Explorer)" 1-8  | Select track 1-8   | Jog wheel (Rotate)                                       | Scrolling the play-line forward & backward                             |
| Button "M" 1-8   | Mute track 1-8   | Joe wheel (Enter)  | Activate "Click" function  |
| Button "S" 1-8   | Solo track 1-8   | Button "Zoom L/R"  | Scrolling the track view window  |
| Button "(dot)" 1-8   | Record track 1-8   | "Button ""Zoom Up/Down""<br>(Use with jog wheel)"        | Scrolling and selecting track vertically                               |
| Button "Track <"   | Shift one channel up   | "Button ""Zoom In/Out""<br>(Use with jog wheel)"         | Zoom in/out track horizontally   |
| Button "Track >"   | Shift one channel down   | "Button ""Zoom Track""<br>(Use with jog wheel)"          | Zoom in/out track vertically   |
| Button "Bank <"  | Shift eight channel up   | "Button ""Track""<br>(Use with jog wheel)"               | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "Bank >"  | Shift eight channel down   | "Button ""Pan""<br>(Use with jog wheel)"                 | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "(Loop)"  | Activate the loop function   | "Button ""EQ""<br>(Use with jog wheel)"                  | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "<<"  | Activate the rewind function   | "Button ""Aux-Send""<br>(Use with jog wheel)"            | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button ">>"  | Activate the fast forward function   | "Button ""Insert""<br>(Use with jog wheel)"              | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "(Stop)"  | Activate the stop function   | "Button ""Mix""<br>(Use with jog wheel)"                 | Please refer to "Encoder 1-8 (Rotate & Enter)"                         |
| Button "(Play)"  | Activate the play function   | Button "Flip"  | Swap the parameter settings of the faders and the rotary encoder knobs |
| Button "(Rec)"   | Activate the record function   | Button "Save"  | Activate save function   |
|  |  | Button "SMPTE/Beats"                                     | Activate SMPTE/Beats function  |

**HUI mode function table (Pro Tool - PVC Overlay)**

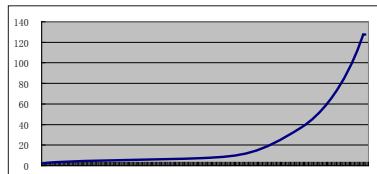
| Controller              | Function   | Controller               | Function  |
|-------------------------|--|--------------------------|---|
| Encoder 1 - 8 (Rotate)  | "Adjust parameters of channel 1-8 according to selection function (Flip, Inserts, Mix, Pan & Sends)" | Button "Pan"             | Adjust parameters of channel 1-8 according to Pan function    |
| Encoder 1 - 8 (Enter)   | "Adjust parameters of channel 1-8 according to selection function (Flip, Inserts, Mix, Pan & Sends)" | Button "Plug-in"         | Adjust parameters of channel 1-8 according to Insert function |
| Fader 1-8               | Channel 1-8 volume   | Button "Assign"          | Activate the Assign function                                  |
| Fader M                 | Master channel volume  | Button "Compare"         | Activate the Compare function                                 |
| Button "(Explorer)" 1-8 | Select track 1-8   | Button "Bypass"          | Activate the Bypass function                                  |
| Button "M" 1-8          | Mute track 1-8   | Button "Mix"             | Show/hide the Mix dialog                                      |
| Button "S" 1-8          | Solo track 1-8   | Button "Send A - Send E" | Activate the Send A - E function                              |
| Button "(dot)" 1-8      | Record track 1-8   | Jog wheel (Rotate)       | Scrolling the play-line forward & backward                    |
| Button "Track <"        | Shift one channel up   | Jog wheel (Enter)        | None  |
| Button "Track >"        | Shift one channel down   | Button "Zoom L/R"        | Switch between clips  |
| Button "Bank <"         | Shift eight channel up   | Button "Zoom Up/Down"    | Scrolling and selecting track vertically                      |
| Button "Bank >"         | Shift eight channel down   | Button "Zoom In/Out"     | Zoom in/out track horizontally                                |
| Button "(Loop)"         | Activate the loop function   | Button "Zoom Track"      | Zoom in/out track vertically                                  |
| Button "<<"             | Activate the rewind function   | Button "CMD"             | Select mutiple tracks   |
| Button ">>"             | Activate the fast forward function   | Button "Shift"           | Select mutiple tracks   |
| Button "(Stop)"         | Activate the stop function   | Button "Flip"            | Adjust parameters of channel 1-8 according to Flip function   |
| Button "(Play)"         | Activate the play function   | Button "Read"            | Activate the read function                                    |
| Button "(Rec)"          | Activate the record function   | Button "Write"           | Activate the write function                                   |
|                         |  | Button "Touch"           | Activate the Touch function                                   |
|                         |  | Button "Latch"           | Activate the Latch function                                   |
|                         |  | Button "Off"             | Activate the Off function                                     |
|                         |  | Button "Save"            | Activate save function  |

## Appendix B (Key-switch velocity curve selection)

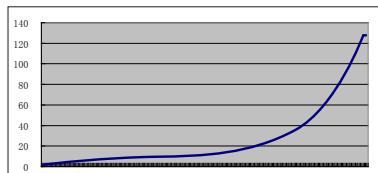
Curve 1



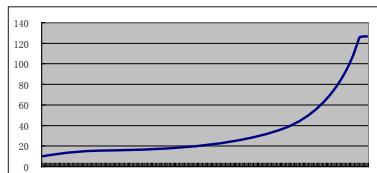
Curve 2



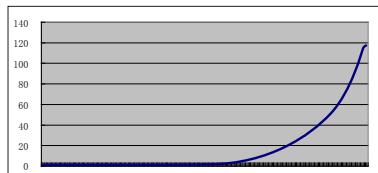
Curve 3



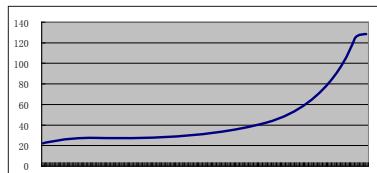
Curve 4



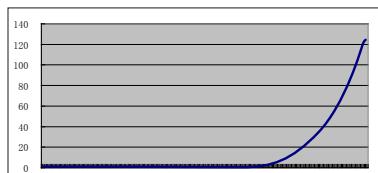
Curve 5



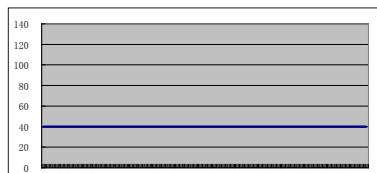
Curve 6



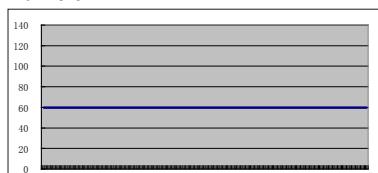
Curve 7



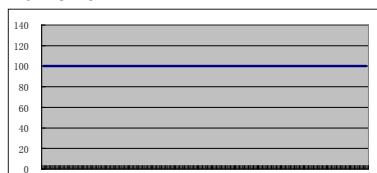
Curve 8



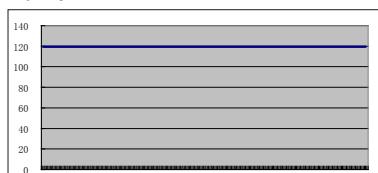
Curve 9



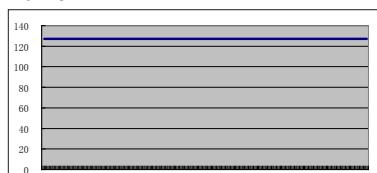
Curve 10



Curve 11

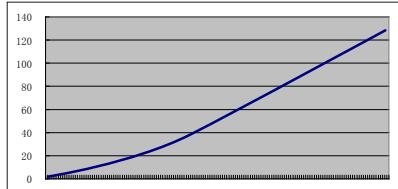


Curve 12

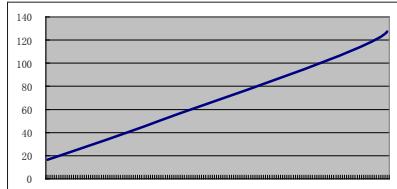


## Appendix C (Drum-Pads velocity curve selection)

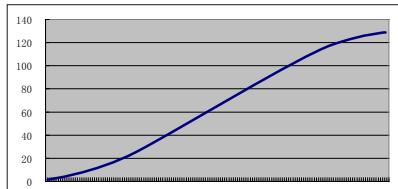
Curve 1



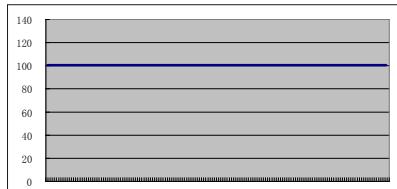
Curve 2



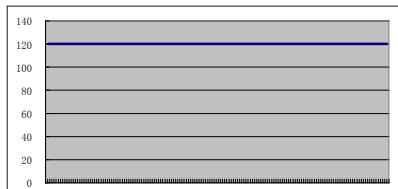
Curve 3



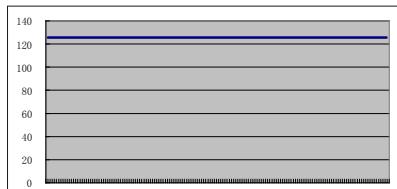
Curve 4



Curve 5



Curve 6



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As soon as you have submitted an inquiry ticket, our support team will assist you to resolve the problem with your ICON ProAudio device as soon as possible.

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2. Keep this owner's manual. We don't need it to repair the unit.
3. Pack the unit in its original packaging including end card and box. This is very important. If you have lost the packaging, please make sure you have packed the unit properly. ICON is not responsible for any damage that occurs due to non-factory packing.
4. Ship to the ICON tech support center or the local return authorization. See our service centers and distributor service points at the link below:

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