

# The AHK3000-E Keyboard Manual

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**Caution:** To reduce the risk of electric shock, do not remove any circuit board or power supply covers. There are no user serviceable parts inside; refer to qualified personnel.

**Warning:** To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The appliance should not be exposed to dripping or splashing and no objects filled with liquids should be placed on or near the appliance.

### Detailed safety instructions

- 1 Read these instructions
- 2 Keep these instructions
- 3 Take notice of our warnings
- 4 Follow instructions
- 5 Clean only with a dry cloth
- 6 Keep the product away from liquids
- 7 Install in accordance with these instructions
- 8 Do not install near significant sources of heat e.g. radiators, stoves etc.
- 9 Ensure the product is properly grounded
- 10 Only use attachments / accessories specified or approved by **Amulet Hotkey**
- 11 Refer all servicing to qualified personnel

### About this manual.

This manual is designed to give you both an overview of the AHK3000-E Keyboard as well as a detailed explanation on how to install, configure and use it. However, there are bound to be questions we haven't answered so don't hesitate to contact technical support at Amulet Hotkey for expert assistance.

You can do this by phone or by email:

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[apsupport@amulethotkey.com](mailto:apsupport@amulethotkey.com)

Check out the Tech. Support page of our web site for additional contacts:

[www.amulethotkey.com](http://www.amulethotkey.com)

## Shipment.

1 Your AHK3000-E and cables were carefully packed prior to despatch to guarantee safe transit. However, we recommend that you thoroughly examine all packaging and contents for signs of physical damage before use.

2 If any damage has occurred, please notify the shipping company and your supplier immediately otherwise claims for damage or replacement may not be granted.

3 Retain the original packaging for use in the event that the equipment has to be stored, shipped or returned for service.

4 If you choose to dispose of the packaging please do so in an environmentally friendly fashion. *We like our planet and want it to last a long time.* 😊

## Conventions in this manual.

Throughout this manual we use notes in the page border to highlight points made in the main body of the text. These notes are marked with one of the following graphics:

**Warning:** Anything preceded by this icon is an important warning. You must read these and please take note of our advice.

**Hints and Tips:** Following this icon you will find what we consider to be useful advice based on our extensive experience. Take it or leave it – it's up to you.

**Info:** This icon signals information related to the main text that we thought we'd share with you. Hopefully you will find it of interest.



## Introduction

Thank you from everyone here at Amulet Hotkey for purchasing the AHK3000-E Keyboard. A great deal of time and energy has gone into making this the best and most reliable keyboard available.

With over 16 years experience working around the world in a variety of installations we are confident that we have provided a 'state of the art' unit which will provide you with long and reliable service regardless of the application.

To get the best from this product please take time to study this manual carefully even if you are familiar with other Amulet Hotkey products.

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# 1

## AHK3000-E Keyboard

### 1.0 Overview

The AHK3000-E is a keyboard specifically designed for the use by Equities and Fixed Income traders and is based on the same generic style as the AHK3000-D, eliminating the Dealing 3000 specific keys and adding an LED for indication of sharing status.

The AHK3000-E has a number of keys which can be set to record user definable macros. Macros can be up to 64 keystrokes in length.

The AHK3000-E also has digital audio controls and built-in speakers.



The AHK3000-E may be connected directly to a PC or workstation. It also fully integrates with the Amulet Hotkey switches, such as the Amulet Hotkey K4u. Each of these devices supplies the necessary power to the keyboard.

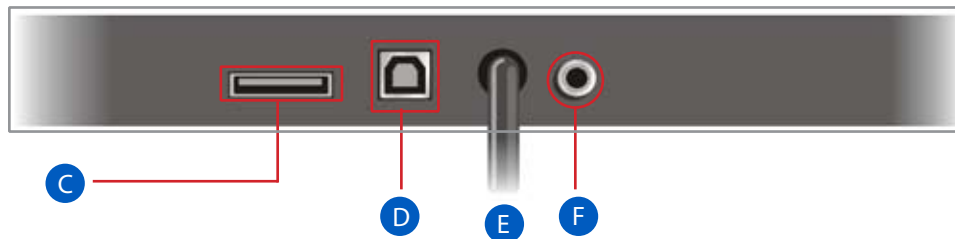
## 1.1 Controls & Status LEDs

- A - The AHK3000-E is fitted with two status LEDs. The upper LED is not normally used and will only light in the unlikely event of an internal error condition occurring.
- B - The lower of these indicates the sharing status of the keyboard when used with a PC KVM sharer or switch, such as the Amulet Hotkey K4u. In this scenario, the LED will light green if access to the PC is switched to this keyboard.
- C - A standard USB input for connection of a mouse.
- D - The firmware upgrade port is used to connect the keyboard to a PC for upgrading firmware and keycode sets.
- E - Keyboard USB and audio input cable.
- F - The general purpose stereo audio output connector which can support either headphones or self powered speakers.

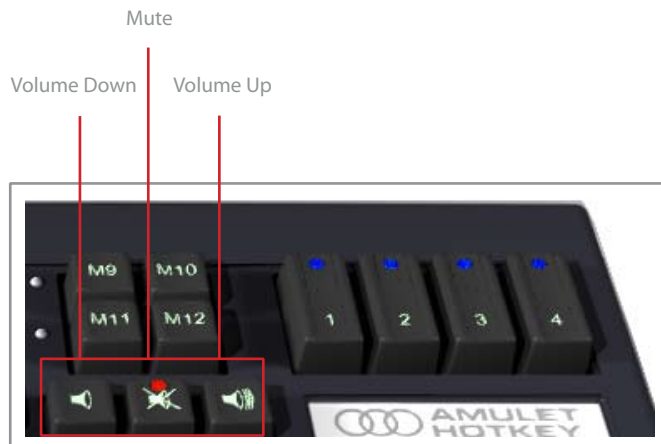
AHK3000 - E



AHK3000 - E Rear Panel



- Sharing Status LED.** The sharing status LED is provided to indicate that the keyboard is accessing a keystation or computer that is already being used by another user. This is only possible if the keyboard is being used with an appropriate KVM switch or sharer. The LED will illuminate green if access to a shared device is granted, red if access is blocked by another user and orange if the shared device is available for use. (For further information see Application Note AN 036)
- Channel Select keys.** These keys are used when the keyboard is attached to an appropriate KVM switch such as the Amulet Hotkey K4u. They are used to change channels on the KVM switch and in so doing, provide access to other local computers and services.
- Audio Connector.** A standard 3.5mm stereo jack socket to which headphones or externally powered speakers can be attached. When using this connection the internal speakers on the keyboard will automatically be muted.
- Audio Level Control.** The audio level control keys are used to manage the audio level output. The speakers and audio connector are found on the rear panel.



# 2

## 2.0 Connecting the AHK3000-E

There are a number of devices to which the AHK3000-E can be connected and each of these supplies power to the keyboard and handles any data generated by key presses. Some devices support the connection of additional computers, others allow the keyboard to be located remotely from the PC or workstation.

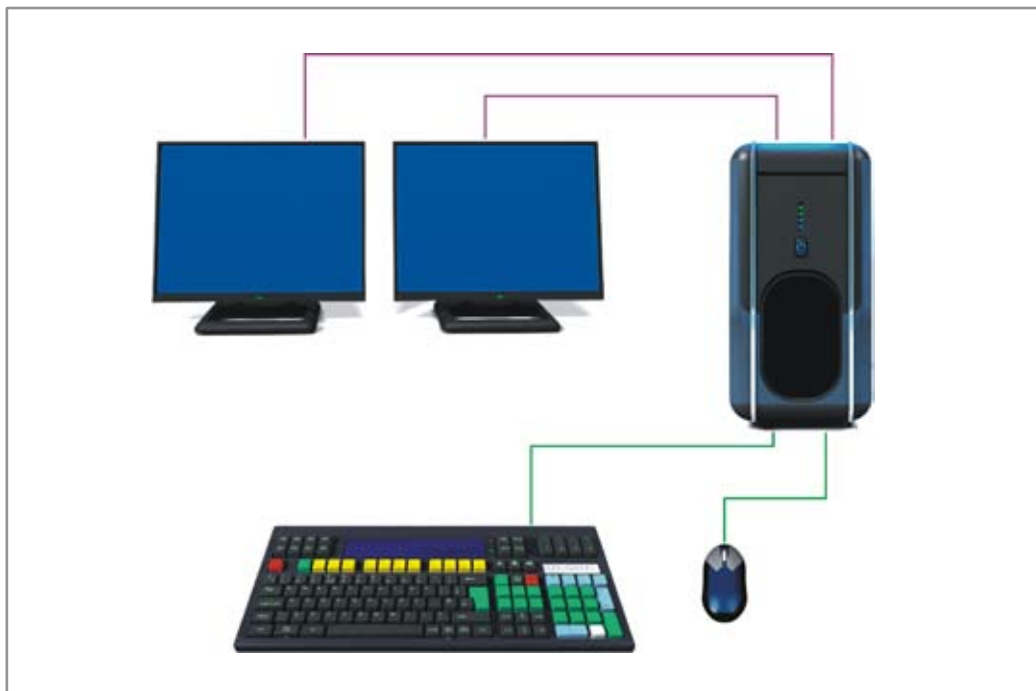
### 2.1 Connecting to an Amulet Hotkey K4u

The Amulet Hotkey K4u is used in many sites around the world. This diagram shows how to connect the AHK 3000-E to the device.



## 2.2 Connecting Directly to a Standard PC

The AHK3000-E will need to be attached in the usual way, by connecting it to the USB or PS/2 port of the computer, as appropriate.



# 3

## 3.0 User Programmable Macros

The AHK3000-E has a number of user programmable keys, which can be used to record specific macros.

This can be recorded in one of two ways; using the PC front end; details on how this is done are available in a separate manual, entitled "The AHK3000 Series Programming Application", part number; HB-KBPA-0001. This method is particularly favourable when there are many users who all desire the same macro set. It is also possible to program the macro keys using the keyboard directly, using the audio control keys; details of this procedure are below.

### The Macro Keys

All of the keys on the top two rows on the AHK3000-E are macro programmable.



### 3.1 Programming Macros using the Audio Control Keys

- 1 - To begin recording a macro press the volume up and volume down keys down together and, while still holding them down, press the key to which you would like to assign a macro. Finally release the keys.
- 2 - Now the macro can be created, this can be up to 64 key-strokes in length.
- 3 - Upon completion, the volume up and volume down keys need to be simultaneously pressed again to confirm the specified macro. If the macro is valid the upper status LED will light green, if not it will light red and the process will need to be repeated from the start.

### 3.2 Important Notes to Remember

- The macro will not become assigned to a key if it is longer than 64 key-strokes (this includes keys held down and not released) in length and previous information set will be erased, thus the user must re-type the entire macro.
- It is not possible to embed a macro within a macro.
- To find out if a macro is already assigned to a key, press it!
- Within the front end dialogue of the programming application, the "Existing Macro Set" will read "User Defined Set" as soon as a user programmable macro has been assigned.



*The LEDs on the keyboard will light continuously in turn to inform the user that it is in macro programming mode.*



*While in macro programming mode, the keyboard will not respond to PS/2, USB or the programming PC.*

# 4

## 4.0 Trouble Shooting

Although the AHK3000-E is a sophisticated keyboard with many unique features, it has been designed and built to be robust, simple to use and easy to install. Providing you follow the guidelines and connection instructions in this manual the system should operate without error.

If anything appears to be wrong check all connections, referring to the diagrams supplied. Check that all components are powered and that the computer(s) in use are also running.

Finally, if you are unable to hear audio output from the keyboard, check the audio level is sufficiently high and that the mute key has not been pressed.



*The mute LED will light if the keyboard is muted.*



## 5.0 Technical Specifications

### AHK3000-E Keyboard

Dimensions	550 x 220 x 50mm (W x D x H)
Weight	2.5kg
Power consumption	Nominally 4.5W / 15.4 BTU/h

### 5.1 Technical Support

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Asia Pacific:      apsupport@amulethotkey.com

### 5.2 What's in the Box (All kits contain HB-KB02-0003 - AHK3000-E Quick Start Guide)

#### KT-KB02-0002    UK USB Black Kit

CA-KB02-0002    Keyboard Complete Assembly UK USB Black incl. Captive Cable

#### KT-KB02-0004    US USB Black Kit

CA-KB02-0004    Keyboard Complete Assembly US USB Black incl. Captive Cable

#### KT-KB02-0009    UK USB Black Kit - Macro set and key caps for 7 channel cascade (see Application Note 023)

CA-KB02-0002    Keyboard Complete Assembly UK USB Black incl. Captive Cable

#### KT-KB02-0010    US USB Black Kit - Macro set and key caps for 7 channel cascade (see Application Note 023)

CA-KB02-0002    Keyboard Complete Assembly UK USB Black incl. Captive Cable



This is an FCC class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

