Wireless Keyboard

User’s Guide

Model: GK-21

www.a4tech.com

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

Federal Communications Commission Requirements
The equipment has been tested and found to comply with the limits for Class B Digital Device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

THE CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

Knowing the keyboard

2.4GHz wireless technology with 16 channels and 1,048,576 ID Codes	**Errorless 2-Way Communication Technology**
The 2.4GHz RF wireless technology is fine-tuned with 16 selected channels and exclusive 1,048,576 ID-codes; it offers precise and smooth wireless operation in active wireless environments. It allows many wireless devices to operate simultaneously in one area without interfering in the range up to 8-10 meters.	Errorless 2-way communication technology features error correction capability that speeds up data transmission and increases wireless precision. It saves valuable battery power and cost.
Anti-interference with Auto Channel Hopping Technology	
"Auto Channel Hopping" technology automatically detects and secures available channels in the busy public 2.4GHz universal band. It ensures better quality of wireless communication.	

Specifications

RF Data Transmit Rate	2Mbps	**Frequency**	2.402GHz～2.480GHz
ID Codes	1,048,576 sets	**Channels**	16 channels

Wireless Range

Any electrical device, such as the computer monitor, Zip drives, speakers, etc., can cause interference with the wireless keyboard. Most likely, this will effect tracking of pointing devices or the range of the device. To make sure that your keyboard transmits and receives properly, refer to the following instructions:

1. For optimal performance, place the receiver at least 8 inches (20 centimeters) away from other electrical devices, such as the computer monitor, Zip drives, speakers…etc.

2. The effective distance of wireless keyboard should be no farther than 26-33 feet (8 -10 meters). This will ensure optimal communication between the keyboard and the USB receiver.

NOTE: You should always get at least a 4 meters range. If you find that your cordless device gets less than 4 meters range, please replace the batteries with a fresh set, perform the synchronization procedure for the keyboard and test the range again. If the range is still below 4 feet, please test your device on another system, preferably in a different environment. If you find it gets the same range on another system, please contact A4 TECH support to obtain information about a warranty replacement. However, if the range improves on another system, then it may be an environmental variable. Use the suggestions above to resolve the environmental interference issue.

Operating Warnings: For optimal performance and RF (Radio Frequency) reception:

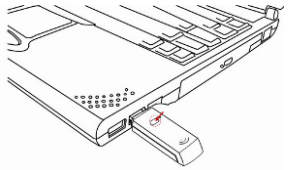
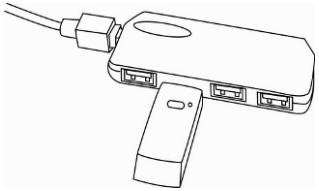
1. Avoid using the wireless keyboard on a metal desk or a desk with a metal frame can cause problems with pointing device behavior and range.

Hardware Installation

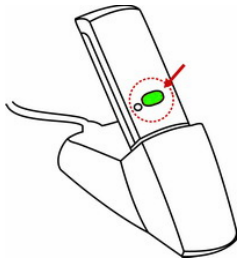
Step 1: Inserting the Batteries

A. Press the tab on the battery cover locates on the keyboard bottom and remove the cover.	**B.** Insert the supplied batteries, making sure that the positive (+) and negative (-) ends of **the battery match** the polarity indicators inside the battery housing.	**C.** Slide the batter cover back into its position until it “clicks” firmly into place.

Step 2: Connect the Receiver

A. For Notebook computer: Insert the USB receiver into the USB port of your Notebook computer. 	**A. For PC computer:** Insert the USB receiver into the USB port of desktop computer or via a USB HUB. 
B. The USB receiver will automatically be recognized by your computer.	

C. Press the “connect” button on the USB receiver as shown, the Green Power LED will light up, and starts “Blinking”.



D. Immediately Press the “connect” button on the bottom of the keyboard, If you can’t find or see your keys on the screen, follow the steps below:

1. Unplug and re-plug the receiver

2.Test the device on another USB port or computer.

Note: Removing the batteries will require you to synchronize it with the receiver again the next time you turn it back on.

<table>
<tr><td colspan="2">● System Requirements：
To use the keyboard presenter, your computer must meet the following hardware requirements and run one of the operating system listed below.</td><td rowspan="2">● Package Includes：
□ 2.4GHz RF Keyboard
□ USB RF Receiver
□ 2 AAA Alkaline Batteries
□ CD (User Manual on CD)</td></tr>
<tr><td><u>Hardware</u>
□ IBM or Compatible PC
□ CD (User Manual on CD)
□ Hard Disk Driver
□ USB Port</td><td><u>Operating System</u>
□ Windows 2000, XP, MCE2005, XP (x64), 2003(x64), and VISTA x86</td></tr>
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