APPENDIX E

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│                  USER INSTRUCTIONS                       │
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FCC ID : KUG-SG-RFO1

SGRF-100KM wireless keyboard
User's Manual

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Important Ergonomic Information

It has been suggested in some studies that long periods of repetitive motion together with improper work environment and habits are linked to certain types of physical discomfort or injury. These include tendinitis, tensynovitis and carpal tunnel syndrome (CTS). It is important that your chair, work surface are in the correct positions at all times. In addition, you should take frequent breaks to avoid sitting in the same position for extended periods of time. Failing to do so may result in tendinitis, tensynovitis and CTS.

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Federal Communications Commission (FCC) Notice

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.

This equipment has been tested and found to comply with the limits of a 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 instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in particular installations, 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:

1) Re-orient/Relocate the receiving antenna.
2) Increase the separation between the equipment and receiver.
3) Connect the equipment into an outlet on a circuit different from that the receiver is connected.
4) Consult the dealer or an experienced radio/TV technician to help.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

1 Getting ready to use your wireless keyboard

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Important: Switch off the power to your PC before connecting or disconnecting any hardware.

Physical Connections

1. Insert the 6 pin mini-DIN connector (a round shaped 6 pin male connector, connected to the receiver box by a cable) to the keyboard port found on the back of your PC. *Note: If your PC's keyboard port is not fitted with a mini-DIN port, you will need to use a mini-DIN to DIN converter.*
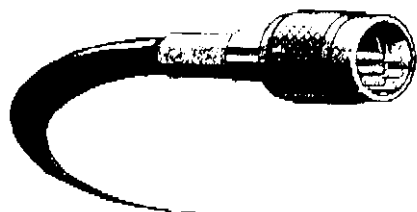
6 pin mini-DIN connector   *Serial connector (9 pin holes)*

2. Insert the serial connector (a D-shaped female connector with 9 pin holes, connected to the receiver box by a cable) to an available 9-pin serial port on the back of your PC. *Note: Please do not use a serial to PS/2 converter plug to connect the serial mouse connector to PS/2 port. The serial mouse connector can only be connected to a com port on the PC system.*

3. If you own a serial mouse and you have made the connection in step 2 above, you may wish to connect your mouse to the serial connector found on the back of the receiver. *Note: Please do not connect any device other than a mouse to the serial connector on the receiver.*

4. Turn on your PC now.

5. Insert 4 "AA" sized batteries into the battery compartment located at the back of the keyboard. Make sure that the polarity of the batteries correspond to that indicated in the battery compartment.

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Setting the correct frequency and security code

1. Use a thin instrument such as a small screw driver or pin to depress once the tune button located inside the access hole at the side of the receiver. The NUM LOCK, CAPS LOCK and SCROLL LOCK lights on the receiver should all light up immediately (if not, please check to ensure that you have properly inserted the 6 pin DIN connector to the keyboard port). This indicates that the receiver has entered the tune/learn mode. (You may depress it again to release it from tune/learn mode.)

2. Place the keyboard about five to six feet away from the receiver. Use a thin instrument such as a small screw driver or pin to depress once the tune button located inside the access hole at the back of the keyboard. Please wait approximately 5 to 10 seconds for the NUM LOCK, CAPS LOCK and SCROLL LOCK lights to extinguish. The DATA light will light up as the other lights extinguish. If this does not happen, please repeat the entire procedure. To complete the setup procedure, type any key on the keyboard to exit the tune mode.

3. If you are unable to complete the procedure correctly, please return the keyboard to the store you purchased the keyboard from for an exchange or refund. Please do not attempt to open up the keyboard or receiver as doing so would invalidate the warranty on your keyboard.

Note that to protect your computer from unauthorised access, the frequency and security code will be generated automatically by the keyboard using a random number generation algorithm.

Congratulations. You have completed the SGRF-100KM wireless keyboard setup.

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Trouble Shooting Guide

My keyboard does not work.

- This may be due to low battery power or battery not inserted correctly. Please observe the power indicator light on the keyboard as you depress any key on the keyboard. If it does not light up at all, it means the keyboard is not receiving any power. You should then change new batteries or attempt to re-insert the batteries (if the batteries are fairly new) and pay attention to inserting all the batteries with the correct alignment of polarity (i.e. with the "+" of one battery joined to the "-" of the next battery).

- If the power indicator light does light up as you depress any key, please observe the "data" indicator on the receiver to see if it lights up simultaneously as you depress any key on the keyboard. The data indicator on the receiver serves to indicate that the receiver is receiving transmission signals sent by the keyboard. If the data indicator does not light up the problem may be with poor connection between the receiver and the PC. Please detach and reconnect to the PC both connectors (which are attached by cable to the receiver), taking care to ensure that the connectors are inserted fully to the PC ports. If the data indicator light still does not light up, please follow the steps described in "Setting the correct frequency and security code".

- If the data indicator lights up each time a key on the keyboard is depressed and yet you do not see any character appearing on the screen, this means the receiver's data encryption key is not properly synchronized with the keyboard. Please perform the steps described in "Setting the correct frequency and security code" to re-set the security code.

If after following the above procedures the keyboard still does not function at all, your keyboard or receiver is probably faulty. Please return the keyboard to the store you purchased it from for an exchange or refund. Please do not attempt to open up the keyboard or receiver as doing so would invalidate the warranty on your keyboard.

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The PC does not respond to my keystrokes or require repeated keystrokes to enable the display of that one character on the screen.

- This may be due to the presence of external interference from a high power transmission source in the vicinity of your receiver or there is another transmitter operating at the same frequency in your vicinity. Please look at the NUM LOCK, CAPS LOCK and SCROLL LOCK indicator lights to see if they flash on and off repeatedly. If this is so, it means the receiver is experiencing interference from an unknown source transmitting at the same frequency it is set to. To overcome this problem, please perform the steps described in "Setting the correct frequency and security code" to tune to another channel.

The PC display characters which I did not key in.

- This means someone in you vicinity is using a similar keyboard that coincidentally is also set to the same frequency and security code. The chance of this happening is extremely rare as the security code has 64,000 possibilities and each keyboard has more than one operating frequency. Nevertheless, if this happens, please perform the steps described in "Setting the correct frequency and security code" to tune to another channel.

The mouse pointer on the screen moves by itself.

- This means someone in your vicinity is using a similar keyboard and operating at the same frequency as your keyboard. Please perform the steps described in "Setting the correct frequency and security code" to tune to another channel.