GLASS RUN 2.4G Wireless Mouse
Works even on slightly dusty glass

User Manual

Model: G9-320

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 receiver.
(2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement

The equipment complies with FCC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. The equipment has very low levels of RF energy that it is deemed to comply without testing of specific absorption ratio (SAR).

1. Hardware Installation

1). Connect the Multi-link receiver

Take out the Multi-link receiver from bottom of the mouse and connect it to your computer.

2). Insert the batteries

Open the battery cover and insert the supplied batteries.

Note: Make sure the positive (+) and negative (-) ends of the battery match the polarity indicators inside the battery compartment.

3). Turn on your Mouse

Push the power switch to ON position and turn on your mouse. >>Then LED light at the bottom of the mouse is on immediately.

4). Position the wireless mouse and Multi-link receiver within 15m operating range (Note: The actual distance depends on the environment.)

Note: For more functions such as RF Channel Lock, Gesture 16-in-1, 4-way Wheel and so on, please install the G9 16-in-1(enclosed in the CD) software first!

2. Software Installation (Note: The software is applicable to Windows 2000/ XP/ 2003/ Vista/ Windows 7)

1). Uninstall previous installed mouse software.

2). Insert the enclosed CD to start installation and follow the on-screen instructions to finish the software installation.

3). The shortcut icon " " will appear on your desktop screen, and then you have successfully

installed the software. (Otherwise, installation is failed and you have to remove the software and re-install.)

To remove the software, follow the steps:

Go to Start >> Programs >> A4TECH Software >> G9 16-in-1 >> Uninstall G9 16-in-1

To launch the software

Double click on the icon " " at the right-down corner of your system tray or double click on the icon " " at your desktop screen. The "Main Menu" of "16-in-1" software will pop up.

3. Knowing the "16-in-1" software

"16-in-1" software offers programmable 16 functions in 1 click with RIGHT button.

Main Menu of "16-in-1" software

Gesture 16-in-1

1). Click "▼" of "Gesture Button □ " at the "Main Menu" page and select "Gesture 16-in-1". The setup

screen will pop up as below.

Setup Screen

2). Click any "" at "Setup Screen", you will see the function list. Now you may setup 16 most-frequently-used commands to the "Gesture Button □", and then click "Apply" at "Main Menu" of "16-in-1" software to save your new setting! There are more than 30 commands you may select, including Keyboard, Mouse, Office, Text, Multimedia, Internet and Open a file.

3). Knowing "16-in-1" functions

Function list	**Function instruction**
No Setting	There is no button setting being defined.
Keyboard	You may setup the "Gesture Button□" to simulate a keyboard's keystroke, or a key combination with "Win", "Ctrl", "Shift" and "Alt", then followed with any keystroke on the keyboard, and then assign it to the "Gesture Button□".
Mouse	You may setup "Gesture Button□" to be one of "mouse left button, mouse right button, wheel up and wheel down".

Open a File You may setup the "Gesture Button□" to open a file or program by one-click during presentation.

Usage:

1). Select “Open a File” from the pull-down menu of the "Gesture Button □" as "Figure 1" shows.

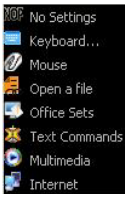


Figure.1

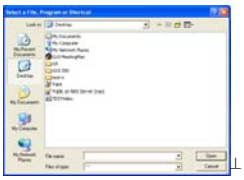


Figure 2

2). A screen of file listings will pop up as "Figure 2" shows.

3). Select a file that you would open it with the "Gesture Button □" and click “Open”.

4). Now you can see a file you selected has been assigned to "Gesture Button □."

5). Click “Apply” to save the new setting.

Example: While make a presentation, it is embarrassing to keep others waiting due to searching for a document, or look up for a program or a shortcut. With “Open a File” function, you may have better way to resolve this issue. By setting up "Gesture Button②" in association to the document, program or shortcut, all you need to do is to open any file instantly with "Gesture Button②" .

Office Sets	You may setup any one of Office command sets such as: “Zoom In, Zoom Out, Paste Text” to the "Gesture Button□". 1. Zoom In/Out：One click to perform zoom in or zoom out function, applicable to CAD, ACDSee, Windows or text editing programs. 2. Paste Text：One click to perform “Select, Copy & Paste” texts, it turns office jobs can never be so simple.
Text Commands	Quick access to Office, such as: New File, Open File, Save File, Redo, Undo.
Multimedia	Quick access to Multimedia commands, such as: Media Player (Open), Previous, Next, Stop, Play/Pause, Mute, Volume+, Volume-…etc.
Internet:	Quick access to usually used Internet commands, such as: Backward, Forward, Stop, Refresh, Search, My Favorite, Web Browser, E-mail...etc.

How to use "Gesture Button □ " as "16-in-1" function

Press and hold the gesture button□ to draw any of 16 lines and directions as shown on the right, then release the button. The corresponding commands will be executed immediately, including Keyboard, Mouse, Office, Text, Multimedia, Internet and open a file, which can be preset and store to your receiver memory.

Diagrams of 16 mouse gestures

Example 1:

Using as “Zoom In” command by default, when you are viewing a picture with ACDSee, or browsing a PPT file in the Office, or Reading a PDF file…etc, just pressing the “Gesture Button□ ”and draw the line as shown below, then release the “Gesture Button□ ”, the picture or the document will be zoomed in immediately.

a. Start: Press the "Gesture Button □"
b. Track of the drawing line: Draw the line as the arrow direction.

c. End: Release the "Gesture Button □"

d. Then the picture has been zoomed in.

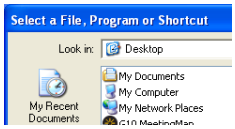
Example 2:
See the contrast in EXCEL after drawing the line.

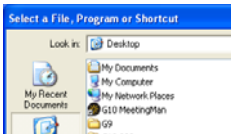
Now let's take " " as example to show you how to use these functions：

1. Select " " icon to represent "Zoom In" as shown:
2. Click " " to close the setup screen.
3. Click "

" to save to receiver's memory.
4. Draw the line in Excel.

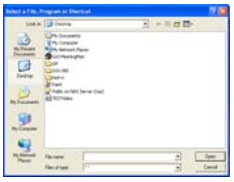
Original After drawing the line, the column has been enlarged





Draw the line in Windows Picture and Fax Viewer.

Original



After Drawing Line, the picture has been enlarged

DPI Setting

Click " " on "DPI Settings" of the Main Menu of "G9 16-in-1" software to adjust 5-level sensitivities among 800-1000-1200-1600-2000 DPI depending on different display applications

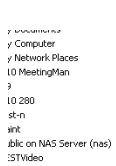
My Network Places
G10 MeetingMan
G9
G10 280
test-n
Paint
Public on NAS Server (nas)
TESTVideo

The icon will be displayed at the system tray when you adjust the DPI-level. You also can change the DPI-level directly by pressing the DPI shift button(upon the model used).

Illustration of Mouse DPI	
DPI Indication	Explanation
	800DPI
	1000DPI
	1200DPI
	1600DPI
	2000DPI

Mouse Report Rate

Mouse Report Rate is the term that how many times the mouse sends data to the computer in one second. For instance, "Report Rate 500Hz" means "the mouse sends 500 times of data to the computer in one second". G9 16-in-1 offers 3 report rates, e.g., 125Hz, 250Hz and 500Hz respectively. The higher times stands for the smoother the cursor movement and precise click response, especially suitable for game play, which requires high speed and quick response. (For a conventional mouse, the report rate is 125Hz).



According to various applications, the bandwidth is divided into 3 report rate levels:
1X Speed: USB report rate is 125Hz, suitable for office and general users, power consumption is the lowest.
2X Speed: USB report rate is 250Hz, suitable for CAD users, power consumption is normal.
4X Speed: USB report rate is 500Hz, suitable for heavy-duty game players, power consumption is high.

Task listing of G9 16-in-1

Left or Right click on the icon " " at the right-down corner of your system tray, you will see “G9 16-in-1 Task Listing” pops up as shown below:

erver (nas)

Following will brief each task and its functionality.

1). Auto Launch on Boot

If this task is selected, G9 16-in-1 will be auto-executed when the system boots up.

2). Mouse-Control Panel

Select "Mouse-Control Panel" will open "Mouse Properties" setup screen of your Windows system, e.g., you may setup mouse pointers and other often -used mouse settings.

Mouse-Control Panel

3). 4-Way Wheel

Step 1: Right-click on the icon " " at the right-down corner of your system tray and select "4-way Wheel".
Step 2: See instructions on the popped 4-way Wheel window to learn on how to execute vertical and horizontal scrolling.

A. The 4-way Wheel is the latest scrolling technology. It splits working screen into 2 areas, A and B as shown. Depending on cursor position, the wheel will perform vertical or horizontal scrolling. For instance, when the cursor locates within A area, the wheel will perform vertical scrolling, and when the cursor locates within B area, the wheel will perform horizontal scrolling. It saves tremendous works instead of pulling the scrollbars, especially when working with Excel spreadsheet.

B. In practice, you may click and move the Red split icon to change the ratio of A and B areas. You may perform Vertical and Horizontal scrolling by just moving the cursor in and out of A or B areas, which saves a lot of efforts than pulling Windows' scrollbars!

Note: If the option of "Normal Wheel" is selected, the wheel will perform as a normal mouse wheel, and "4-way Wheel" function won't be launched.

4). Power Management

Click on the icon at the right-down corner of your system tray and select "Power Management" to define wake-up modes and sleeping time. According to the stand-by status, the intelligent power-saving management supports "Slight, Little, Middle & Deep" 4 working modes. User may define the time interval to enter into the Deep Sleeping Mode, and 6 seconds enter into Deep Sleeping Mode after the PC is power off.

Move to Wake Up:
This is convenient to awake the mouse, and it consumes 0.35mA current when in stand-by status.

Click to Wake Up:
This requires a click to awake the mouse, yet it consumes as less as 0.03mA current in stand-by status.

Check Battery power:
Click "Battery indicator" in "power-saving management" to check the battery power status.

My Documents
My Computer
My Network Places
G10 MeetingMan
G9
G10 280
test-n
Paint
Public on NAS Server (nas)
TESTVideo

:80
\

on NAS Server (nas)
/ideo

Low Battery Inform:
When the mouse power is low, Low Battery Inform page will pop up at the right corner of your screen to remind you to replace the batteries in time.

Low Battery Inform Page

5). RF Channel Setting:

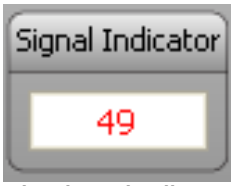
Click on the icon at the right-down corner of your system tray and select "RF Channel Setting" to indicate RF signal and set a specific channel to avoid RF interference.

Auto Channel Hopping:
This is G9 16-in-1 default setting. Applicable to single-alone user, or when there is no wireless interference nearby.

Channel-lock:
If there is more than one set of wireless Mice& KBs are used in the same site, you may perform "Channel-lock" to assign exclusive channel for each device so as to avoid "Auto Channel Hopping" wireless conflicts and get "Zero-lag" better performance.

RF Channel Setting

Detect Receiving Signal Level:
Moving the mouse, the indicator will display current signal level. The less level value means the better receiving signal, value under 120 means the devices are working in good condition. The value may increase when working in a long range venue, or there is strong interference. Try different allocation of mouse and receiver till the best improvement is secured.



Signal Level Indicator

6). Best Wireless Signal Monitoring

Click on the icon at the right-down corner of your system tray and select "Best Wireless Signal Monitoring" to indicate RF signal and help to find the optimal locationl to avoid RF interference.

Search and Keep away from Wireless Conflicts:
If wireless mouse is not working smoothly due to wireless conflicts, use wireless signal monitoring to monitor and improve the signal level and get best improvements.

Detect Receiving Signal Level:
Moving the mouse, the indicator will display current signal level. The less level value means the better receiving signal, value under 120 means the devices are working in good condition. The value may increase when working in a long range venue, or there is strong interference. Try different allocation of mouse and receiver till the best improvement is secured.

Suggest Improvements:
1. Use a USB extension cable for the receiver and keep it away from the computer or any interfering sources. It is highly recommended to use it for the long range meeting venue or when there is strong wireless conflict nearby.
2. Plug receiver on the same side with the mouse, it may avoid potential wireless conflicts from the notebook computer.

7). A4tech G-Family

① Click on the icon at the right-down corner of your system tray and select "A4tech G-Family" to add new mice and keyboards.

Effective Meeting:
Multi-link receiver is designed with memory, The “New Mice/KBs ID Pairing” program allows to link up to 3 sets XFAR G3/ G5/ G7/ G9/ G10 series of mice & KBs to operate on the same computer. The “A4tech G-Family” program provides the best sharing of meeting to consolidate all member intelligences.

Portability:
The Multi-link receiver allows to link up to 3 sets XFAR G3/ G5/ G7/ G9/ G10 series of mice & KBs. You may leave it installed on your notebook and use any paired mice and keyboards at home or in the office.

Note:

The red-colored of Multi-link G9 receiver is also available with single gift box. It is back compatible and supports A4Tech's G3, G5, G7 and G10 series, making them reunion as a family. Note that functions of multiple buttons will be restricted for those limited buttons of some back models. And Multi-link function does not applicable to G6 series.

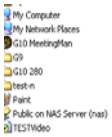
②Click "

" will start to add new mice and keyboards. (For better operation, you may need another mouse to perform ID pairing before the wireless mouse is applicable).

The Multi-link, red-shelled receiver may works with up to 3 sets of mice and keyboards simultaneously. With each attendant a mouse in hand, it increases efficiency. See more details on below "New IDs for Mice/KBs" and "How to Add a New Device Using New Mice/KBs ID Pairing" sections.

If more mice or keyboards are used in working, please pair the new mice/KBs.

Into G-Family Management:
In this section, you will be able to manage the linked mouse and keyboard. Click “Into G-Family Management” will bring the management screen as shown on the right.



Multi-link Management Program

Management of Linked Mice and Keyboards:
From the screen, you may see the listing of linked mice and keyboards with their IDs. You may tick or tick off the box to “Enable” or “Disable” the devices, or “Delete” them forever.

Special Note:
Each mouse and keyboard of G9 16-in-1 will have an exclusive ID code by default in the factory. Such ID code is derived randomly from 262,144 combinations. However, in case the ID codes duplicate, please send back the products for maintenance.

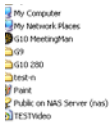
③. Follow on-screen instructions to perform “ID Pairing” as shown on the right, click “Next” to continue.

④Press any key to wake up the mouse before “ID pairing” is performed.
>>Locate the power switch (Normally you can find it on the mouse bottom side).
>> Make sure the power switch is in OFF position and then switch it to ON position within 30 seconds. (If power switch is in ON position, switch it to OFF and back to ON position within 30 seconds).
>> After above procedure is completed, the mouse will start to perform pairing procedure with the receiver; wait for seconds, the next screen will pop up as shown after ID pairing is completed.

⑤.After ID pairing is completed, move the mouse and reply YES if mouse moves fine, then click NEXT. In case the ID pairing fails, click “BACK” to repeat steps 2, 3 and perform the ID pairing procedure again.

⑥. After above ID pairing is completed, you can follow the below steps:

1. Click "OK" to complete the ID pairing.
2. If you need to perform another ID pairing for the new devices, click “New Mice/KBs ID Pairing” again and repeat above steps 2, 3, 4 to perform another ID pairing.



After you have finished adding all the new mice and keyboards, click “Into G-Family Management” to manage the multiple mice and keyboards.

Multi-link Management Program

Innovative GlassRun Technology (Low Power Consumption, High Performance Optical Engine)

The "GlassRun" is the new technology that it collects all the diffusion light and improves image quality. It saves 30% power consumption than a conventional mouse and works even on the slightly dusty glass.
Note: In case the cursor movement is not smooth when working on the extremely clean glass, put on some handprints will get immediate improvements.

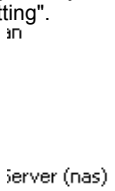
Schematic Diagram of GlassRun

Notice

To ensure that your mouse sends and receives perfectly, please read below instructions for your reference:

1. Avoid Channel Confliction from Auto Channel Hopping

1). Left-click on the icon " " at the right-down corner of your system tray and select "RF Channel Setting".



2). Select "Channel-lock" to define a private channel to secure better wireless communication quality.

2. Avoid Interference from iron panel of PC.

Please plug the Multi-link receiver into3、4 to avoid shielding wireless signal when placing at 1、2.

USB Ports

3. Use USB extension cable to position the Multi-link receiver at a far location to prevent electromagnetism interference from devices
4. Avoid using the wireless mouse on a metal surface. Metals such as iron, aluminum, or copper shield the radio frequency transmission and slow down the mouse's response time or cause the mouse to fail temporarily.
5. The radio frequency is 2.4GHz, it is safe for our bodies, but please be cautious in using cardiac pacemaker or other body auxiliary instruments.

Troubleshooting & FAQ
If the mouse is not working:
1. Make sure the mouse power is on.
2. Try another USB port.
3. Ensure the Multi-link receiver is inserted.
4. Check battery and battery installation.

Product Support
Need help with technical support? Please go to:
http://www.a4tech.com/ennew/support.asp and our support team will respond within 72 hours.

**Features and specifications of all A4TECH products are subject to change without notification.