

## 3-Button 3D Optical Mouse User Manual

*- AMQ-100A*

### INTRODUCTION

Thank you for purchasing an ATake 3D Optical Mouse. If you have difficulty installing or using your Optical Mouse, please first contact your dealer or computer system manufacturer for assistance. If they are unable to help you, please call ATake for further help.

**Please read this User's Manual thoroughly.** It contains important information about your ATake Optical Mouse. Failure to follow instructions for proper installation and use of this product may cause damage to the product, your computer, and/or connected devices, and may void the warranty.

### IMPORTANT SAFETY & HEALTH INFORMATION

**WARNING: Do not shine the optical sensor on the bottom of the mouse into your eyes!**

Frequent use of a computer mouse may cause physical injury. If you feel any pain, discomfort, numbness, tingling, aching, cramping, stiffness or swelling in your hands, wrists, arms, shoulders, neck, back, or fingers, you should stop using your computer mouse and seek the advice of a qualified health professional. To lessen the chance of injury, you should follow these general guidelines:

- Your computer keyboard should be directly in front of you, and your computer mouse placed right next to it so that you can use it with your elbow at your side.
- Your computer mouse should be close enough so that you do not have to stretch to reach it.
- Your chair height should be adjusted so that your computer mouse is at elbow height. Your forearm should be parallel to the floor or slightly bent.
- Your arms, wrists, and shoulders should be relaxed, but remember to maintain good posture and do not bend your wrist, shrug your shoulders, hunch your back, or twist your body.
- Hold your computer mouse with a light touch.
- Take frequent breaks and vary your tasks.

### FEATURES & SPECIFICATIONS

- ATake optical technology provides smoother, more precise operation than traditional computer mouse technology. With an optical mouse, your cursor generally will not stick, skip, or jump.
- Your Optical Mouse can be used on almost any relatively flat surface. There is no need to use a mouse pad. Exceptions include glass, mirrors, and some surfaces with complex graphic or color patterns.
- Your Optical Mouse is basically maintenance-free. There is no rubber ball or other moving parts to clean. However, if you do not have a clean work surface, then dust, dirt or crumbs may become lodged on the edge of the optical sensor opening on the bottom of the mouse. If that happens, you can gently blow or brush away the offending material with a soft cloth. However, do not insert any objects through the opening.
- Your Optical Mouse is a three button mouse with standard, full functioning left and right button controls and a scrolling wheel. It operates with standard Windows®, Linux®, and Macintosh® mouse drivers.

## 3-Button 3D Optical Mouse User Manual

- AMQ-100A

### SPECIFICATIONS:

#### Physical Specifications

<b>Mouse Size</b>	83.0x47.0x27.5 ±2mm
<b>Mouse Weight</b>	51.2 ±3g
<b>Number of switch:</b>	3 buttons + Scrolling Wheel
<b>Resolution</b>	800dpi
<b>Cable length</b>	1500 ± 30 mm

#### Electrical Specifications

<b>Interface:</b>	USB
<b>Working Current:</b>	20mA or less Vin=5V
<b>Standby Current:</b>	8mA or less
<b>Working Voltage:</b>	4.75v ~ 5.25V

#### Mechanical Performance

Operating Force of Mouse Buttons :	70±20gf
Operating Force of Browser Switch :	70±20gf
Operating Force of Scrolling Wheel :	25±10gf
Operating Force of Connect Buttons :	100±20gf

#### Reliability

##### Scrolling Wheel Life Test

Operating Life:	100,000 cycles
Switch Life:	100,000 cycles
Rotation Torque:	20 ~ 30gf.cm

##### Button Life Test

Operating Force Range:	75 ± 10gf
Return Force:	>15 gf
Full Travel:	OP=7.0 ± 0.1mm
Operating Life:	1 million strokes min.
Switch Life:	1 million operation min.

##### Environment Test

Working Temperature:	-5 ~ 40
Working Humidity:	20% ~90% RH
Storage Temperature:	-15 ~ 60
Storage Humidity:	90% RH

### COMPATIBILITY & SYSTEM REQUIREMENTS

The ATake Optical Mouse comes with a USB connector and an optional USB-PS/2 adapter. You can use the Optical Mouse with Windows XP®, Windows 2000®, Windows NT®, Windows Me®, Windows 98®, Windows 95®, Windows CE®, Macintosh® 8.6 or later, and Linux®, operating systems, with the following limitations:

- If you are using Windows NT® or Windows 95®, you must use a PS/2 port.
- If you are using Macintosh®, you must use a USB port.
- Some people prefer to use a USB port because it is "hot pluggable", meaning that you can plug in and unplug the mouse regardless of whether the computer is on or off.
- Other people prefer to use a PS/2 port because they are not using the PS/2 port for any other device.

### INSTALLATION

1. If you are using the USB port, it is not necessary to turn off your computer before plugging the mouse into the USB port on your computer or into a USB hub. If you are using the PS/2 port, you must first shut down your operating system and turn off your computer before plugging the mouse into the PS/2 port on your computer. Also make sure you disconnect any mouse that is currently connected to the PS/2 port or to the serial port.
2. Locate the USB or PS/2 port on your computer. A USB port is a flat rectangular port. A PS/2 port is a round mini-DIN port.
3. Plug the mouse connector into the USB port on the computer, or plug the mouse connector into the USB-PS/2 adapter and then plug the adapter into the PS/2 port on the computer. Make sure the orientation of the connector is correct – do not force the connector into the port.
4. Please note that the ATake Optical Mouse does not work with a serial (DB9) port and ATake does not support the use of active signal converters such as USB-serial converters.
5. If you want to use the USB connector but the USB port on your computer is already occupied, you can use the mouse with most USB hubs. When using a hub, if the mouse sometimes does not work, try unplugging and plugging back in the mouse and/or the hub.
6. Make sure your workspace is “ergonomically” correct as per the Important Safety & Health Information section of this User’s Manual.
7. When you install the mouse (i.e., when you plug in a USB mouse or turn on the computer with a PS/2 mouse) a wizard may prompt you to install a mouse driver. Your Optical Mouse does not come with a special mouse driver but rather works with standard Windows®, Macintosh®, and Linux® mouse drivers usually built into your computer’s operating system.
8. Simply follow the prompts on your computer screen and, if requested, select the default driver directory/folder to install the driver. **You may need to reboot your computer after you install the operating system driver.** You can visit the driver section of our website at [www.ATake.com](http://www.ATake.com) to download the related drivers like Windows 98®.
9. Please note that it is normal for the mouse’s internal light to brighten when you move the mouse.

## 3-Button 3D Optical Mouse User Manual

- AMQ-100A

### TROUBLESHOOTING

If your Optical Mouse does not work, it is important to determine whether the problem is the mouse or the computer. Always try the mouse on another computer before concluding that the mouse is “defective”.

#### Mouse Not Detected

1. Make sure your computer ports are properly set up (for example, not disabled). Check with your computer system dealer or manufacturer if you need help.
2. Make sure you do not have any conflicts among devices connected to and/or software installed on your computer. Check with your computer system dealer or manufacturer and/or software vendor if you need help.
3. Try **rebooting** your computer system after the installation wizard finishes installing the mouse driver.
4. Make sure you have a compatible operating system for the type of port you are using (USB or PS/2).
5. Make sure you directed the wizard to the right directory for drivers. Call ATake if you need help with drivers.
6. Some early versions of Windows 98® may not work well with some USB devices. If you are using Windows 98® but do not have Second Edition (SE), you can try downloading driver updates via Microsoft Windows Update and from our website at [www.ATake.com](http://www.ATake.com).

#### Cursor Does Not Move At All

1. The mouse may not have been detected by your computer (see “Mouse Not Detected” above).
2. The optical sensor may be blocked (see “Cursor Jumps or Sticks” below).
3. You may be using the mouse on an incompatible surface. Make sure you are not using your mouse on a transparent surface like glass or a reflective surface like a mirror; on a rough or porous surface that is not smooth; or on a surface with complex graphic and color patterns.

#### Cursor Jumps or Sticks

1. Dust, dirt, or crumbs may be lodged on the edge of the optical sensor opening on the bottom of the mouse. Simply gently blow or brush the obstructing material away with a soft cloth. However, do not insert any objects through the opening.

#### Mouse Sometimes Works and Sometimes Does Not

1. Your computer’s power management and/or sleep settings may be affecting the way the mouse works. Please try changing these settings to see whether that solves the problem.

### SERVICE & SUPPORT

If you have difficulty installing or using your Optical Mouse, please first read the Troubleshooting section of this User’s Manual and check our website at [www.ATake.com](http://www.ATake.com) for updated support information.

It is also always a good idea to contact your computer dealer or manufacturer for assistance, **especially if the mouse works on another computer but not on your computer**. If they cannot solve the problem, please contact ATake Co., Ltd. Our contact information is listed in the retail package. Also please note the following important information:

- This product contains no user serviceable parts. Opening the mouse will void the warranty.
- This product is for home and office use only.

## 3-Button 3D Optical Mouse User Manual

- AMQ-100A

- This product is for use in standard home and office temperature and humidity environments.
- This product is for use with UL listed and/or CE approved computer equipment only. Use with other equipment may void the warranty.

### REGULATORY INFORMATION

#### FCC Statement

This product has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following conditions: it may not cause harmful interference and must accept any interference received, including interference that may cause undesired operation.

