

# SPHERA WL Wireless Optical Desktop

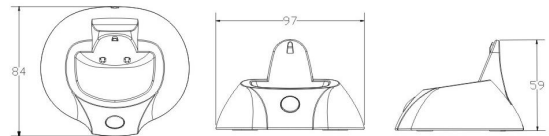
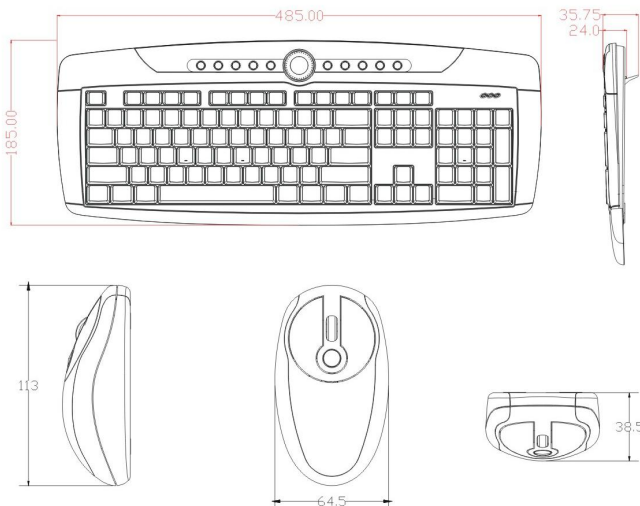
## SPECIFICATIONS

### Part 1.0: General Features

- Full size slim wireless multimedia keyboard
- Totally Wireless freedom
- 27MHz digital radio technology
- 1 channel 256 ID to avoid interference ( 2 CH 512 ID optional)
- Keyboard 1.8 meter, mouse 1.2 meter operation range
- Keyboard come with 12 hotkeys, 9 of which are programmable
- 800 DPI Optical precision
- 3 level power saving mode for mouse
- Mouse come with 3 programmable buttons
- Low battery indicator
- Rechargeable function for mouse



### Part 2.0: Physical characteristics



Sensor light on mouse: Red

Receiver power requirement: 5V DC from USB port

Frequency: Mouse 27.045 MHz ( 1 CH version)  
27.045 MHz (2 CH version)  
27.195 MHz  
Keyboard 27.145 MHz (1 CH version)  
27.095 MHz (2 CH version)  
27.145 MHz

ID numbers: 256 random ID per channel

Resolutions: 800 DPI

Sensor Tracking Speed: 16 inches / Second

#### Battery

Battery type: two AAA 600mAh Ni-MH for mouse  
two AA alkaline for keyboard

Battery consumption:

Mouse: Operating Mode:  $\leq 35$  mA

Sleep Mode 1:  $\leq 6.5$  mA

Sleep Mode 2:  $\leq 500$  uA

Keyboard: Operating Mode:  $\leq 10$  mA

Sleep Mode 1:  $\leq 0.2$  mA

Low battery indicator active: 2.1V

#### Part 4.0: Reliability

Keyboard Button Switch Activation: 8,000,000 cycle

Mouse Button Switch Activation: 1,000,000 cycle

Scroll Wheel encoder Activation: 100,000 cycle

Operating temperature: -5 - 40 degrees celsius

Operating humidity: 20% - 90%

#### Part 5.0 System Requirement

Windows 98, Windows 98SE, Windows 2000, or  
Windows xp. Windows ME.

#### Part 6.0 Optional Configuration

AC - DC Adaptor, 2 Channel 512 ID, USB + PS/2

#### Mechanical Performance

Operating force of mouse buttons	60 $\pm$ 15gf
Operating force of Browser switches	170 $\pm$ 25gf
Operating force of wheel scrolling	20 $\pm$ 10gf
Operating force of ID buttons	100 $\pm$ 15gf
Operating force of keyboard keycaps	60 $\pm$ 15gf

#### Buttons

Mouse : 3 buttons with scrolling wheel,  
1 connect button

Keyboard : 105 standard keys, 18 hotkeys ( www, Email,  
Media, stop, Mute, previous track, next track,  
play/pause, Volume +, Volume -, sleep,  
My computer )  
1 connect button

Receiver : 1 connect button

#### Weight:

Mouse: 95  $\pm$  10 g (battery included)

Keyboard: 865  $\pm$  10 g (battery included)

Receiver: 85  $\pm$  10 g

### Part 3.0: Electrical Specification

Interface : USB 1.1 or PS/2

Sensor report rate on mouse: 3000 times per second

Operation angle: 360 degrees

Operation distance: Mouse 1.2 meter

Keyboard 1.8 meter

#### Note:

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.

#### Caution:

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.