

# OASIS-Glide-S2 Installation Guide

## Package Contents

- **Glide Stage**
- **+24V PSU**
- **Right-Angled USB Cable**
- **Installation Software CD**
- **Cable for Focus/Camera Trigger/Joystick (Optional)**

## System Requirements

- **Windows XP, Windows Vista (32-bit/64-bit), or Windows 7 (32-bit/64-bit) PC**
- **CD ROM drive or Internet connection**
- **USB 2.0 Port**

## Step 1—Unpacking and Mounting

Unpack stage and check for signs of damage. For some mountings, it may be necessary to remove the sub-stage carrier from the microscope stand in order to fit the stage more easily to the carrier.

### **NOTE:**

The OASIS-Glide stage ships with a locking screw that is mounted from the bottom of the stage to prevent movement during shipping. It is useful to keep the locking screw in place during installations, but be sure to remove the locking screw fully before use.

Turn stage upside down on a soft surface (the packaging foam rectangle is ideal). The stage is mounted to the microscope sub-stage carrier either by various length adapters which fit a circular dovetail or directly by means of the various drilled and tapped holes in the base plate. Mounting kits provide the correct length adapters or screw mounts are available for various microscope makes and models.

Now is a good time to fit the sub-stage carrier, which can be mounted on either side of the stage so that the bulk of the stage overhangs to the left or to the right of the microscope. Leave the stage transport locking screw in for the time being, it is easily removed once the stage is mounted on the microscope.

**NOTE:**

The small on-off slide-switch on the underside of the stage, next to the 26-way high-density expansion connector. This slides towards the back of the stage for 'off' and towards the dovetail mounting ring for 'on'. Leave in the off position during installation.

## **Step 2—Install Optional Focus/Trigger/Joystick Cable**

If required fit the cable to the expansion connector. This is usually a tight fit, especially when new, so it is recommended to push the cable on just enough to be able to get the thumbscrews started in the mating threads and then use a screwdriver to fully tighten each of them a little bit at a time, until the connector is fully home.

## **Step 3—Fitting stage carrier to microscope**

If the sub-stage carrier was removed for installation, fit the stage with the sub-carrier onto the microscope and make sure it the locking set-screw is reasonably tight and the stage is secure if using the dovetail ring fixing method.

## **Step 4—Plug in Power Supply**

Plug in the +24V PSU to the mains supply.

Note: You can use one of the slide on adapters to suit the countries power sockets, or obtain a 'figure-of-eight' power lead with the correct mains plug, if a longer PSU lead connection is needed, or the PSU is too bulky to go straight into the wall socket.

Plug the 1.3mm right-angled power jack into the stage where the little recess is, next to the mini-USB connector.

## **Step 5—Connect USB cable and Optional Expansion Cable**

Connect the USB cable between the stage and the PC and also the focus motor, joystick and camera trigger, as necessary.

### Step 6—Insert Installation CD

Turn on the PC and insert the Installation Software CD.

### Step 7—Power on the Stage

Switch on the stage using the green on-off slide switch underneath the stage. The blue LED ring around the joystick should illuminate (if fitted), and it should be possible to drive the stage around using the joystick.

#### NOTE:

There are NO physical limit switches fitted to the stage. Positional initialization is done using home sensors built-in to the encoder rails. As such it is normal and expect to hit the mechanical limits of travel. When this happens under joystick control, you may hear a buzzing sound. Again this is normal, it's just the motor power being cut and restored rapidly. If the end stops are reached during a normal move under PC control, the motor power is cut and that axis will move freely. Position is maintained thanks to the encoders.

If the stage hits an object unexpectedly, or you physically overpower the motor torque, again the motor power is cut and the stage moves freely in the affected axes.

### Step 8—Driver and Software Installation

Windows will detect the new device and plug-and-play will start the *Found New Hardware* wizard. Follow the *Found New Hardware* wizard steps. When asked to specify a search location, choose the CD drive that contains the installation disk, or, if you have downloaded the installation files, choose the root folder containing the installation.

Once the plug-and-play installation is finished, you can then run the *Setup.exe* that is found on the installation disk. You will be shown the installation screen. Choose the option to **Install Glide Stage USB Driver** to install the interface software required for applications to use the stage. It is also recommended that you choose the option to **Install OASIS & Glide Stage Tools & Utilities**, which installs important software utilities such as the OASIS Controller application and the Glide Flash Setup utility.



Figure 1. OASIS Controller and Glide Stage Installation Screen.

## Step 9—Configuration and Test

Configure the stage flash memory settings as necessary using the GlideFlash.exe utility. This might be necessary if the focus mechanism has limit switches and/or you need to reverse the direction of movement etc. Please refer to the *GlideFlash.pdf* document including in the Docs folder of the installation disk for more details of how to use this utility. You will need to power-off and back on the stage for changes made to the flash memory to take effect.

Check out the functionality of the stage using the OASIS Controller application. A desktop link to the OASIS Controller application will be found if you have chose to *Install OASIS & Glide Stage Tools & Utilities*.

Please note some functions may not be applicable to the Glide stage and are usually greyed-out. Please check the Objective Imaging website ([www.objectiveimaging.com](http://www.objectiveimaging.com)), or with us directly at [support@objectiveimaging.com](mailto:support@objectiveimaging.com), for software updates and further information.