Getting Started

Shadow Version 4.0

www.motionshadow.com

1 System Requirements

- Computer with Wi-Fi or USB port

- Works on Windows, macOS, Linux, iOS, and Android devices

- Windows 10, macOS 10.12+, Linux

- Internet connection recommended for setup

2 Quick Start

Step 1: Install the Shadow app

Download and install the software **from our website**. Run the installer and follow the step-by-step instructions to add all of the necessary drivers and software.

Some antivirus software may interfere with the installer. You may need to temporarily pause the antivirus scanner to complete your installation.

Step 2: Run the Shadow app

At the heart of the Shadow software is the Shadow app. The Shadow app is responsible for reading data streams from hardware devices, processing the data, logging the data to disk, and publishing data streams for live streaming access.

The Shadow app must be running in order to use your sensor hardware devices. On Windows, it will minimize to the tray. On macOS, simply close the main window and the hardware management services will continue to run until you quit the application.

The first time you run the Shadow app it may prompt you for some preferences, most importantly your geographic location. Your software needs an accurate location to correct for geomagnetic declination, which varies around the Earth.

Step 3: Connect your devices

If you are using a wireless device simply plug in its battery. Within 20 seconds you will be able to see the network named `Shadow`. Connect to this network with the key `2062012708`. Refer to the **Shadow Wireless** manual for more details.

To use a USB device, simply plug it into your computer using the included cable. The first time you plug in the device, Windows automatically installs

drivers for the device. A small "Found New Hardware" dialog may pop up indicating that Windows is installing the device.

Step 4: Configure your devices

The Shadow app operates on a set of devices called the configuration. To record data from a device it must first exist in current configuration list. The configuration list is shown in the Devices panel of the desktop application.

The desktop application does its best to detect new devices as they are connected and automatically add them to the configuration. Your device may already be in the current configuration. If not, you will need to `Scan` to discover any connected hardware. You are now ready to record data from your devices.

Step 5: Record a take

The Shadow app organizes a session of recorded data into an entity called a take. A take consists of the take definition file (`*.mTake`), the associated configuration (`*.mConf`), and the binary data stream data (`*.mStream`) for all devices. Takes are stored in your user data folder sequenced by date and number.

To record a take run the `Start Take` command. This command may take a few second because it does not succeed until all configured devices are streaming data to disk.

After recording enough data run the `Stop Take` command. This will stop recording data and save the take definition file. At this point the take is finished and is no longer writable by the Motion Service. The current take is now available for export to external file formats.

Step 6: Export a take

The Motion Service provides export to standard file formats Autodesk FBX, BVH, C3D, and CSV spreadsheet. You may choose a format to auto export to in the Setting panel of the application. After completing a take, the auto exporter runs in the background to generate your preferred file.

Run the `Export` command to export the current take to different format. The output file is saved in your user data folder. For security, the Shadow app does not allow you to read or write files that are not in your user data folder.

Your user data folder contains all of your takes and exported data. The default location of this folder varies by platform.

- **Windows** C:\Users*username*\Documents\Motion

- **Mac** /Users/*username*/Documents/Motion

- **Linux** /home/*username*/Documents/Motion

- **Shadow Device** \\Shadow\data (Network Share)