

Kinesis® JSB™

USB foot switch family
(joystick button emulation)



USER'S MANUAL

KINESIS
COMPUTER ERGONOMICS

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Kinesis® JSB™ USB foot switch family *(joystick button emulation)*

For any USB system capable of providing generic HID joystick drivers for USB joysticks

Models covered:

FSMJ2-JSB: control module only, with two input jacks

FSMJ4-JSB: control module only, with four input jacks

FS12J-JSB: control module with two input jacks, one pedal

FS22A-JSB: dual angled pedals mounted on steel base

FS22AJ-JSB: dual angled pedals mounted on steel base with one jack for optional input device

FS32A-JSB: triple angled & adjustable pedals, mounted on steel base

FS32AJ-JSB: triple angled & adjustable pedals, mounted on steel base. Jack for optional input

Optional input accessories

FS007mp: single foot pedal with mini-phono plug

FS002HT8: Hand trigger, 8 foot cable with mini-phono plug.

*Waterproof (IPX8) models are available by special order.

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Cover: Triple pedal model shown (FS32A-JSB)

REGULATORY APPROVALS

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. 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 or 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

Warning

To assure continued FCC compliance, the user must use only shielded interfacing cables when connecting to computer or peripheral. Also, any unauthorized changes or modifications to this equipment would void the user's authority to operate.

INDUSTRY CANADA COMPLIANCE STATEMENT

This Class B digital apparatus meets all requirements of the Canadian Interface-causing Equipment Regulations. Cet Appareil numerique de la classe B respecte toutes les exigences du Reglement sur le material broilleur du Canada.

CE COMPLIANCE FOR EMISSIONS AND IMMUNITY

This device has been tested to comply with the following European standards for emissions and immunity for ITE and medical equipment: En 55022, En 55024, EN 61000-3-2/3, and EN 60601-1-2.

MEDICAL PRODUCT SAFETY

CONFORMS TO UL STD 60601-1; CERTIFIED TO CSA STD C22.2 NO. 601.1



The ETL Recognized Component mark on the product label indicates compliance with UL 60601-1 and CSA Std C22.2 No. 601.1 standards for medical use. These products must be used with a UL listed computer to comply with UL safety standards. The label will also indicate IPX1 per UL and CE standards for “drip-proof” water resistance. Custom, non-programmable waterproof (IPX8) models are also available by special order. This product should not be used in the presence of a flammable atmosphere such as an anesthetic mixture with air, oxygen, or nitrous oxide.

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REPETITIVE STRAIN SAFETY WARNING

Continuous use of any computer input device may cause aches and pains or a more serious cumulative trauma disorder (CTD) such as tendinitis.

- Observe sensible guidelines when using any computer input device to help minimize the possibility of injury.
- Follow established guidelines for computer and workstation setup.
- Exercise good judgment in placing reasonable limits on your computer usage time every day.
- Ensure that you take reasonable rest breaks from computer use during the course of the day.
- At the first sign of stress-related injury (aching, numbness, or tingling of an extremity), consult your health care professional.

Kinesis Corporation bases its product designs on research, proven features, and user evaluations. However, because of the complex set of factors believed to contribute to computer-related injuries, the company can make no warranty that any of its products will prevent or cure any physical ailment.

Your risk of injury may be affected by workstation and chair design, posture, time worked without breaks, type of work, activities outside of the workplace, and individual physiology.

FEATURES AND COMPATIBILITY

Overview

Kinesis JSB USB footswitches are designed to emulate joystick button operations using generic drivers provided by the operating system. In general, they will operate on any computer with an active USB port.

Up to four pedals are provided to perform joystick buttons 1-4. If jacks are provided, only a Kinesis-supplied device (foot pedal or hand trigger) may be connected. The pedals are connected to the appropriate pair of the four ports provided by the small USB control module.

System compatibility

Generic drivers from the operating system are used by all systems to operate the device. No special drivers are needed.

Detailed features

The pedals produce joystick button actions 1 and 2, or 1, 2, and 3, or 1 through 4, depending on whether you have a model with 2, 3, or 4 inputs.

Status LEDs

On the front of the electronics enclosure (facing the user) are two light emitting diodes (LEDs) which indicate the status of the device. When the green LED is illuminated steadily, the unit is operating correctly. The red LED blinks on every pedal press. If the red LED is on continuously, the device is not working correctly (see the chapter on “Troubleshooting and Technical Support”).

Optional accessories

Hand triggers, extra pedals, and extension cables for jack-equipped models are available from Kinesis. Use only Kinesis accessories with this product. For more information or to order, contact Kinesis via email (sales@kinesis.com) or phone (800-454-6374) between the hours of 8am and 5pm Pacific Time.

INSTALLATION

Connecting to your computer

The Kinesis JSB™ Foot Switch may be connected to any USB port. The first time this is done, it is best to connect it *after* your computer has booted up and is logged in (if you have a network) so that you can see the “new device detected” message.

Drivers (Windows 2000 through Windows 7)

The device installs itself automatically as a generic HID device on all recent versions of Windows without requiring user-supplied drivers. Once the required generic driver is installed, the JSB foot switch connects like a standard USB joystick. Just plug the cable into a USB port on your computer, whether the computer is running or not.

OPERATING AND MAINTENANCE GUIDELINES

Flammable gases

The JSB foot switch is not designed to be used in an environment with flammable or explosive gases, such as an anesthetic mixture with air, oxygen, or nitrous oxide.

Duty cycle

The JSB footswitch is rated for continuous operation, though the computer or operating system may affect how the device performs under such conditions. Normal usage consists of intermittent pressing of the pedal to initiate a joystick button action.

Cleaning

Occasional cleaning is recommended by first disconnecting the control module from the computer, then wiping the pedals and electronics enclosure with a damp cloth. Alternatively, a cloth dampened with rubbing alcohol (70% isopropanol) may be used though any silk-screened graphics on the electronics enclosure may be damaged over time by solvent effects. Do not immerse or allow liquid to penetrate the interior of the control module or foot pedal. This product is not designed to be sterilized or to be used in a sterile environment.

TROUBLESHOOTING AND TECHNICAL SUPPORT

Status lights

If a problem is suspected, the first place to check is the status lights. If the green LED displays a steady light, the unit is operating normally. If there is no LED illuminated the unit is not powered. If the green LED is flashing, or if the red LED is illuminated continuously, the unit is not ready and requires attention. It is normal for the red LED to flash briefly every time a pedal is depressed.

Contacting Kinesis Technical Support

Contact Kinesis technical support only after you have read the entire User's Manual and still have problems or unanswered questions. You may contact Kinesis Technical Support by E-mail (tech@kinesis.com), fax (425-402-8181), or phone (800-454-6374 or 425-402-8100). Technical support hours are 8:30am to 4:30pm Pacific time except weekends and holidays.

When you contact Kinesis, be prepared to document your purchase date, as well as your product model number and serial number. Also know the brand and model of your computer and your computer's operating system.

Repairs by authorized repair centers only

This product should be repaired by authorized, qualified personnel only. Unauthorized or ineptly carried-out repairs may seriously jeopardize the safety of the user (such as from fire danger) and may invalidate your warranty. See *Operating and Maintenance Guidelines*.

Getting an RMA number prior to product repair

For any repair, whether or not it is covered by your warranty, you must contact Kinesis to explain the problem, provide certain information, and get an RMA number to write on your package. Packages sent to Kinesis without first obtaining an RMA number may be refused, and the product will not be repaired without information and instructions from the owner.

Packaging and Shipping

If you need to ship the Product, use its original or other packaging that protects it against impact and shock. Be sure to contact Kinesis for an RMA number and Kinesis' shipping address. You should insure the package since Kinesis is not responsible for items until they are received by the Kinesis repair center.

TWO-YEAR LIMITED HARDWARE WARRANTY

Kinesis Corporation (“Kinesis”) warrants to the original retail purchaser that this Kinesis accessory (“Product”) is free from defects in materials and workmanship and will perform substantially in accordance with the Product documentation for two years from the date of purchase by the user. This Warranty does not apply to software or diskettes enclosed with the product, which are covered by a License Agreement. If Product fails due to accident, abuse, inappropriate use, or unauthorized repair, Kinesis shall have no responsibility under this one-year Warranty.

Purchaser’s Exclusive Remedies

During the first (2) years after the date of original purchase, the exclusive remedy for a defect in this Kinesis Product shall be, at Kinesis Corporation’s option, either repair or replacement of the defective product. If you suspect the Product is not working properly or if you have questions about the performance of the Product, contact Kinesis Technical Support. If you wish to return the Product to Kinesis for any reason, you must obtain from Kinesis an RMA number and instructions for returning the product. You are responsible for the cost of shipping the product to Kinesis. For Product repaired or replaced under warranty for destinations within the United States or Canada, Kinesis will ship said Product to you by its ground carrier at no charge. Repair parts and replacement Product may be either reconditioned or new. Kinesis retains the right to charge a service fee or return shipping fee on Product sent for warranty repair where no repair was required.

Disclaimer of Other Warranties

The warranty and remedies set forth above are exclusive and in lieu of all others, whether oral or written, express or implied. Kinesis specifically disclaims any and all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. No Kinesis dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty. Kinesis does not warrant that the product will meet your requirements, or that operation of the product will be uninterrupted or error-free, or that all errors will be corrected.

Limitation of Liability

Kinesis is not responsible for special, incidental, or consequential damages resulting from any breach of warranty, or under other legal theory, including but not limited to lost profits, downtime, goodwill, damage to or replacement of equipment and/or property nor any costs of recovering, programming, or reproducing any program or data stored in or used with Kinesis products. Some states do not allow the exclusion or limitation of incidental or consequential damages or exclusions of implied warranties, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.



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