

# Specifications

## Kinesis® Savant Elite2™ Programmable USB Foot Pedals

### Dual Foot Pedal, Model FP20A, FP20AJ, & FPW20A-IPX8

#### Common Features of all Savant Elite2 models

- Pedal(s) front hinged, low-profile, force-adjustable.
- USB plug and play: no special drivers needed to use or to reprogram the device on PC, Mac, Linux, Android, Chrome.
- Pedal actions defined by a tiny, editable text file residing on a memory chip in the device. It becomes visible on a "virtual removable disk" which is created in programming mode.
- Default programming performs mouse button actions; reprogrammable to perform keyboard actions and macros, including mouse double click.
- Custom factory programming available (may cost extra).
- Reprogrammable waterproof\* (IPX8) versions available.
- ETL-recognized component (US & Canada), UL 60601-1 for near-patient use\*\* (IPX1 and IPX8 waterproof models).

\* The USB connection to the computer is not waterproof.

\*\* This USB input device was not designed as a fault-tolerant medical device. It is intended for use as a component of a UL-listed diagnostic instrument, not for patient care.

#### Specific features of FP20A & related models

- USB control module and 2 pedals mounted on heavy steel base.
- Default programming is left and right mouse button actions, reprogrammable to perform keyboard actions and macros
- Jack-equipped model for extra pedal or hand trigger (FP20AJ).
- Re-programmable waterproof model, FPW20A-IPX8.

#### Each retail package contains

- Dual pedal assembly
- Printed User's Guide

#### System requirements

USB 1.1 port required. Device is compatible with but does not require USB 2.0 and USB 3.0.

Uses generic HID (human interface device) drivers provided by the operating system. Can be programmed and operated in most environments supporting USB devices without any special drivers. Emulates generic keyboard and mouse under Windows, Mac OS X, Linux, Android, and Chrome operating systems.

Re-programing requires generic OS support for virtual (removable) disk drive and a text-editing program or app that can save a file as "plain text" or "simple text." Most word processing and text editing programs have this capability.

Supported operating systems: Full feature support is provided under Windows 7, Windows 8 and earlier versions which support USB. Most features are also supported under Linux, Android, and Chrome. Macintosh systems don't allow one USB device to modify another, so a pedal programmed as modifier key can only be used in combination with another pedal, not with a key on a keyboard.

#### Mechanical properties & life test data

Pedal travel: ~0.14" (~3.6mm).

Pedal actuation force: Adjustable, ~4-6 lbs (~1.8-2.7kg) for a mid-pedal press. Force can also be adjusted by changing foot position on pedal (see back page).

Switch life: Functionally tested to > 1,000,000 cycles.

Pedal enclosure is glass-filled ABS, switch cartridge module is POM.



FP20A

#### Electrical properties

USB port supplies 5V power, <30mA required.

Status LEDs: green and red. Green LED indicates normal operation, flashing during re-programming. Green+red indicates a pedal is pressed. Red-only indicates operational fault.

#### Environmental properties

Operating temperature: 40 to 105°F (4 to 41°C).

Non-operating temperature: -10 to 120°F (-23 to 49°C).

Operating relative humidity: 5% to 90% non-condensing.

Non-operating relative humidity: 0% to 95% non-condensing.

Flame resistance rating (electronics enclosure): UL94V-0.

#### Physical properties

- Individual pedal dimensions: 3.7" (9.4cm) long, 1.25" (3.2 cm) tall, 2.7" (6.9 cm) wide.
- Base dimensions: 6.5" (16.5 cm) wide, 7.0" (17.8 cm) deep.
- Cable: 9'1" ( 2.8 m) long, USB connector (type A).
- Shipping weight: 2.5 lbs (1.1 kg).
- Color: pedal, base, and cable are black.

#### Agency & Regulatory Approvals

- FCC Class B for information technology equipment and for medical equipment.
- CE: for information technology equipment and for medical equipment.
- UL recognized component, for near patient use in US & Canada, ETL control number 4007055. Conforms to UL 60601-1, Certified to CSA STD C22.2 NO.601.1
- ROHS Compliant (lead-free).



#### Warranty

Two years, parts & labor (see details at [www.kinesis.com](http://www.kinesis.com), click on "support").



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Specifications subject to change without notice.

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### Optional Accessories#

- Extra pedal (FS007MP): 10ft black cable, mini-phono plug, IPX1 rated.
- Extra waterproof pedal (FS007MP-IPX8): IPX8 rated, 10ft black cable, mini-phono plug (note: mini-phono connection to control module is not waterproof).
- Optional hand trigger (FS002HT8): 8 ft beige cable, mini-phono plug, IPX1 rated.
- Pedal extension cables, mini-phono: Inquire (long lengths are possible).

#Extra pedals and hand trigger require jack-equipped model.

### KINESIS FOOT PEDAL ADJUSTABLE\* ACTIVATION FORCE

PEDAL PRESS LOCATION (DISTANCE FROM REAR OF PEDAL)	ACTIVATION FORCE	
	SCREW SET TO LOW FORCE**	SCREW SET TO HIGH FORCE
A 0.225" (5.7mm)	3.0 LB (1.4kg)	4.4 LB (2.0kg)
B 0.585" (14.9mm)	3.4 LB (1.5kg)	4.9 LB (2.2kg)
C 1.000" (25.4mm)	4.1 LB (1.9kg)	6.0 LB (2.7kg)
D 1.360" (34.5mm)	4.8 LB (2.2kg)	7.0 LB (3.2kg)

