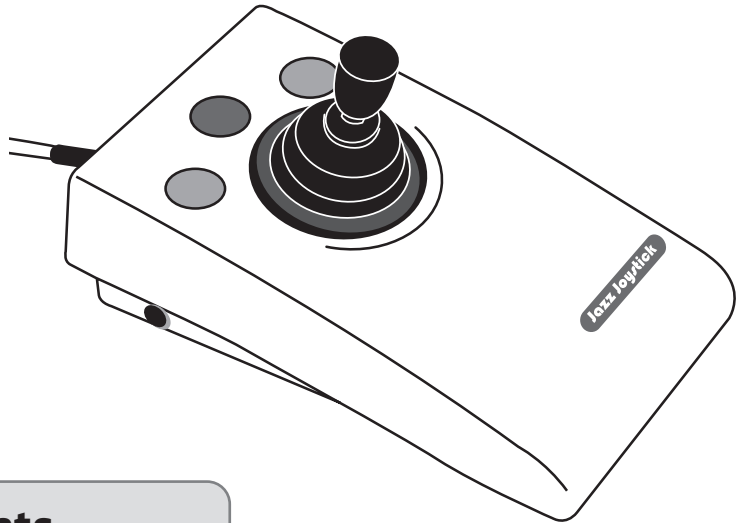


INSTRUCTIONS

JAZZ Joystick



Pack Contents

Carefully check the contents of the box, which are:

Jazz Joystick
T-Bar and Soft Ball handles
This Manual

Product Description

A compact, desktop joystick specifically designed to allow users who lack fine motor skills to easily achieve both cursor control and switch scanning. The **JAZZ Joystick** is designed to respond to gross movements while still achieving fine cursor positioning and accurate switch scanning. Uniquely, this is achieved using Pretorian's renowned analogue joystick which requires very low operating forces (0.5N)

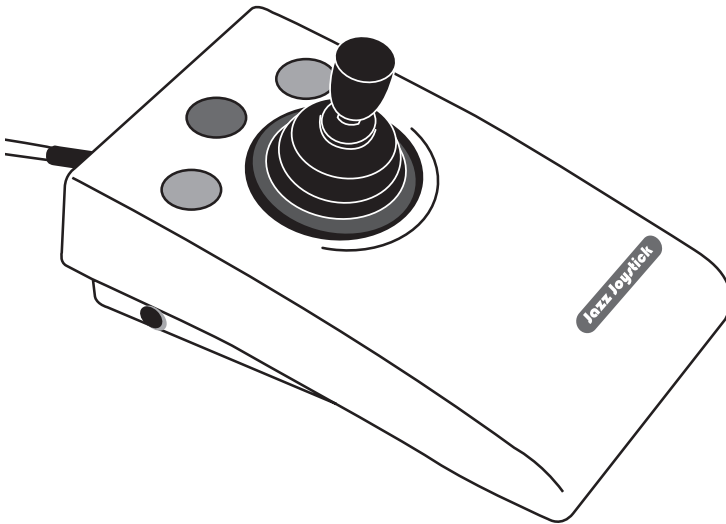
and not a switch joystick, which typically have high operating forces.

JAZZ Joystick is suitable both for controlling a cursor and also for switch scanning, particularly in grid based AAC devices such as Gridpad from Smartbox* and allows the user to switch seamlessly between cursor control and switch scanning where required.

Features

- Specifically designed for users who lack fine motor skills
- PC, Mac, Chromebook, tablet and phone compatible*, including PC based AAC devices.
- No drivers required.
- Switchable between Cursor Mode and Switch Scanning mode (either by user or during set-up).
- Light touch joystick movement with auditory feedback to emulate switch functionality.
- User selectable cursor speed with optional SmartTrack facility.
- Drag lock and double-click features in cursor mode.
- Left-handed option.
- Mountable using industry-standard plates.

**Tablet and phone devices will require an adapter cable.*



Compatibility

JAZZ Joystick works with USB compatible computers including PCs, Macs and Chromebooks, including AAC devices built on a PC platform and which have USB ports. It may also be used on iPad/iPhone (from iOS13 onwards) and some Android devices, depending on their exact specification. An adapter cable will be required for most tablet and phone devices. Please consult with Pretorian or an authorised distributor if you are uncertain.

Installation

Locate an unused USB socket on your device and plug in your **JAZZ Joystick**. You do not need to turn off the power before doing so. On tablet computers and phones, identify the correct adapter cable and plug **JAZZ Joystick** in via the cable. No drivers are required to enable **JAZZ Joystick** to work, the device will automatically build a driver to suit the requirements – a process which may take a few seconds the first time **JAZZ Joystick** is plugged in but afterwards will be immediate.

For iPad/iPhone devices, ensure that the adapter cable is of good quality and if not of Apple manufacture, is an Apple licensed accessory.

Please note that some devices do not support Switch Scanning; this mode is meant primarily for AAC devices such as Gridpad*.

Mouse Mode

When set to Mouse Mode, **JAZZ Joystick** moves the cursor at the selected speed solely in the up, down, left and right directions with Diagonal Movement disabled and may optionally include movement along any of the four diagonals if Diagonal Cursor Movement is enabled.

No movement occurs until the angle of movement of the joystick exceeds a threshold, at which the unit emits a click which is similar to the sound of a switch closure, and only then does cursor movement start in the chosen direction, making it insensitive to small, unintentional movements. The click sound provides the user with auditory feedback, although it may be disabled.

For all speed settings, the cursor speed accelerates over time from when the click is first heard, up to the chosen maximum. When SmartTrack is disabled, the speed of the cursor always starts from minimum and accelerates. Alternatively, if SmartTrack is enabled, the starting speed increases according to the time for which the cursor has previously been stationary (see a fuller description below).

The buttons may be configured as left click, draglock right click or double click while the left-hand 3.5mm socket has the same function as the left button. The right-hand 3.5mm socket allows the user to switch between Mouse Mode and Switch Scanning Mode, if required.

Based on our research, the period for which the cursor has not been moving is just as important as the period for which it has. Imagine the cursor has not been moved for a long time—perhaps because the user has been doing something completely unrelated to the cursor such as typing. When the user resumes cursor movement, there's a very high probability that the cursor will be in completely the wrong place and that a large movement of the cursor is going to be necessary. Without SmartTrack, the slow initial movement could be a source of frustration when the user needs to move the cursor a long way. Instead, SmartTrack gradually increases the starting speed after cursor movement has ceased, until it reaches

a maximum of half of the chosen maximum speed. The cursor will then start moving at half-speed as soon as the stick is moved and then accelerates from there to full speed.

Conversely, if the user stops moving the cursor and then immediately re-commences movement, perhaps in a different direction, it is highly likely that they are 'homing in' on something and therefore very fine movement is required. In this case, SmartTrack responds by starting to move at the slowest speed and accelerates up as usual.

This is much less frustrating for the user, and in most cases will be the preferred setting. By default, the SmartTrack feature is on.

Switch Scanning Mode

When set to Switch Scanning Mode, **JAZZ Joystick** sends scanning information to the device when the joystick is moved in the up, down, left and right directions with Diagonal Scanning disabled and may also include scanning in diagonal directions if Diagonal Scanning is enabled, although this will rarely be required (and is off by default).

No scanning steps take place until the angle of movement of the joystick exceeds a threshold, at which the unit emits a click which is similar to the sound of a switch closure, and only then does scanning begin in the chosen direction, making it insensitive to small, unintentional movements. The click sound provides the user with auditory feedback, although it may be disabled.

This mode has been optimised for use with grid-based AAC devices such as Grid 3 from Smartbox*. The buttons are normally configured as 1, 2 and 3 from left to right, although by switching to left-handed operation they may be changed to 3, 2 and 1. The left-hand socket works as switch 1 unless left-handed operation is enabled, in which case it becomes switch 3. (In Grid 3, the function of the switches may be selected individually in Settings). The right-hand 3.5mm socket allows the user to switch between Mouse Mode and Switch Scanning Mode, if required.

Switching between Mouse and Switch Scanning Modes

JAZZ Joystick leaves our factory in Mouse mode, so it will work as a mouse equivalent straight out of the box. If the user needs the unit to work as a Switch Scanning device on a permanent basis, press and hold the two outer buttons continuously for 12 seconds until you hear a beep. The unit will now remain in Switch Scanning Mode until you elect to switch it back to Mouse Mode by repeating the above operation.

If the user needs to be able to switch between

Mouse and Switch Scanning Modes, this may be achieved by plugging a switch into the right socket of the **JAZZ Joystick**. Every press of this switch will toggle the unit between Mouse and Switch Scanning Modes. Note that there is a one-second lockout period after the mode has been changed before it can be changed again. This is included to ensure that users with a tremor or who have poor motor control do not accidentally change the mode back again.

Setting up your JAZZ Joystick

Before using your JAZZ Joystick, it is best to establish what functionality the user wants from it. In particular, establish whether the user needs to be able to switch between cursor mode and switch scanning mode. If so, you will need to plug a switch into the right socket to do so. If not, the unit may be set up for either Mouse or Switch Scanning Mode and kept in that setting so you will not require an external switch.

Once you know what functions the user will need, the relevant settings may be programmed using the Learn facility. Please note that Learn behaves differently depending on whether the unit is set to Mouse mode or Switch Scanning mode. Please follow whichever is appropriate below.

Once you have set up any of the programmable features in Learn, they are saved in non-volatile memory within JAZZ Joystick and are automatically recalled each time the unit is powered on. This means that once configured, the unit will retain its settings when taken from one device to another.

Learn – Mouse Mode

To make changes to Mouse mode you must first go into Learn while the unit is set to Mouse Mode. If the unit is not in Mouse Mode (i.e. if the cursor doesn't move with the unit plugged in and the joystick is moved) then you will need to switch to Mouse Mode by following the instructions in the section of these instructions entitled 'Switching between Mouse and Switch Scanning Modes'.

To enter Learn, press and hold the middle button until a warbling tone is heard. Then make the required changes as detailed below:

Cursor Speed and Smart Track facility

To change the cursor speed setting, press the middle button briefly. Each time you do so, the unit emits a number of beeps according to Table 1. There are four speed settings and you may also choose whether SmartTrack is on or off. The speed of the cursor changes immediately, allowing you to experiment until the best setting is found.

Speed	SmartTrack	No. Beeps
1 (lowest)	Off	1 (low)
2	Off	2 (low)
3	Off	3 (low)
4 (highest)	Off	4 (low)
1 (lowest)	On	1 (high)
2	On	2 (high)
3	On	3 (high)
4 (highest)	On	4 (high) - factory default

Table 1: Speed settings

Left-Handed Operation (default = off)

The left and right buttons may be swapped around, which is particularly useful for left-handed users. To change this setting, press the left button briefly. One beep indicates the unit is set to standard 'right-handed' mode, whereas two beeps indicates 'left-handed' operation.

Note that this setting applies to both Mouse and Switch Scanning modes and may be changed in either.

Double Click (default = off)

Right-click may be substituted with Double-Click, which is useful for users who have difficulty in double-clicking quickly enough for the computer to recognise. To change this setting, press the right button briefly. One beep indicates the right button is set to standard 'right-click', whereas two beeps indicates 'Double-Click' operation.

Note that if both left-handed operation and Double-Click are selected, the buttons will function as Double-Click, Drag and Left Click, reading from left to right.

Diagonal Cursor Movement (default = off)

JAZZ Joystick can be programmed to move the cursor only in the salient directions (up, down, left and right) or may be programmed to include the diagonals too. The decision on whether to allow diagonal movement is largely dependent on the user's cognition. To change this setting, press and hold the left button while in Learn until a two-tone beep is heard. A falling tone means that diagonals are not permitted, whereas a rising two-tone beep means they are permitted.

Note that this setting is used only when in Mouse mode. Diagonal Scanning is a separate setting- see below.

Buzzer On/Off (default = buzzer on)

JAZZ Joystick is fitted with a buzzer which gives an audible indication of when the joystick first operates, as well as operations such as drag lock, double-click, entering Learn etc. When JAZZ Joystick is used in a classroom setting where there may be many units in close proximity, it may be beneficial to turn off the buzzer. To achieve this, press and hold the right button while in Learn, until a two-tone beep is heard. A falling tone means that the buzzer is now disabled, whereas a rising tone means it is enabled.

Note that this setting applies to both Mouse and Switch Scanning modes and may be changed in either.

All of the above settings may be changed as often as required while in Learn, allowing you to experiment with the settings until the best configuration is found. Once you are happy with them, they may be stored in non-volatile memory by pressing and holding the middle button once again, until the warbling tone is heard. Normal operation then resumes with the new settings.

Please note that the unit automatically leaves Learn, and any changes are discarded, if the settings remain unchanged for more than a minute.

Learn – Switch Scanning Mode

To make changes to Switch Scanning mode you must first go into Learn while the unit is set to Switch Scanning Mode. If the unit is not in Switch Scanning Mode then you will need to switch to it by following the instructions in the section of

these instructions entitled 'Switching between Mouse and Switch Scanning Modes.'

To enter Learn, press and hold the middle button until a warbling tone is heard. Then make the required changes as detailed below:

Left-Handed Operation (default = off)

The left and right buttons may be swapped around, which is particularly useful for left-handed users. To change this setting, press the left button briefly. One beep indicates the unit is set to standard 'right-handed' mode, whereas two beeps indicates 'left-handed' operation.

Note that this setting applies to both Mouse and Switch Scanning modes and may be changed in either.

Diagonal Scanning (default = off)

JAZZ Joystick can be programmed to scan only in the salient directions (up, down, left and right) or may be programmed to include the diagonals too. The decision on whether to allow diagonal scanning is dependent on the user's cognition but also upon what software is being used. If using Grid 3*, do not enable diagonal scanning. To change this setting, press and hold the left button while in Learn until a two-tone beep is heard. A falling tone means that diagonals are not permitted, whereas a rising two-tone beep means they are permitted.

Note that this setting is used only when in Switch Scanning mode. Diagonal Cursor Movement is a separate setting- see above.

Buzzer On/Off (default = buzzer on)

JAZZ Joystick is fitted with a buzzer which gives an audible indication of when the joystick first operates. When **JAZZ Joystick** is used in a classroom setting where there may be many units in close proximity, it may be beneficial to turn off the buzzer. To achieve this, press and hold the right button while in Learn, until a two-tone beep is heard. A falling tone means that the buzzer is now disabled, whereas a rising tone means it is enabled.

Note that this setting applies to both Mouse and Switch Scanning modes and may be changed in either.

All of the above settings may be changed as often as required while in Learn, allowing you to experiment with the settings until the best configuration is found. Once you are happy with them, they may be stored in non-volatile memory by pressing and holding the middle button once again, until the warbling tone is heard. Normal operation then resumes with the new settings.

Please note that the unit automatically leaves Learn, and any changes are discarded, if the settings remain unchanged for more than a minute.

Left Socket

The left socket has exactly the same function as the left button, which may be left click, right click (when left-handed operation is enabled) or double-click (when both double-click and left-handed operation are enabled). Both the left button and the left socket work simultaneously with the same function at all times.

Maintenance

Your **JAZZ Joystick** has no user serviceable parts. If repair is necessary the unit should be returned to Pretorian Technologies Ltd or an authorised distributor.

Warranty

Your **JAZZ Joystick** is warranted for 24 months from the date of purchase against defects in manufacture or component failure. The unit is designed for domestic, educational and commercial applications. Use outside these areas will invalidate the warranty. Unauthorised repair or modification, mechanical abuse, immersion in any liquid or connection to any equipment other than a host computer will invalidate the warranty.

Troubleshooting

Symptom	Possible Cause	Remedy
No cursor movement	Unit is in Switch Scanning Mode	Switch to Mouse Mode using the guidance in the above section entitled Switching between Mouse and Switch Scanning Modes.
Cursor does not move along diagonals	Diagonal Cursor Movement not enabled	Enable Diagonal Cursor Movement in Learn – Mouse Mode.
No scanning	Diagonal Scanning not enabled	Enable Diagonal Scanning in Learn- Switch Scanning.