



game access

by LEPMIS

Switch Access Pod User Guide



NOTE: Please read this user guide before connecting this product to your games console:- it advises the user on how to get maximum enjoyment from the product, and how to avoid doing damage to the product, their games console, or their health.

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1 INTRODUCTION

The LEPMIS PlayStation3 Switch Access Pod (PS3-SAP) replaces the standard controller of the SONY™ Playstation3 (or other games consoles by adding a cross-converter device) to enable gamers of all physical ability to use accessible switches and joysticks to enjoy a huge choice of videogames plus subscription film & music and social media.

Your current accessible switches and analogue joysticks can be used with PS3-SAP to play videogames – but you will need a joystick adaptor to match PS3-SAP analogue port specification (described in this manual). LEPMIS or a suitably qualified technician can produce the adaptor, or LEPMIS can provide a suitable joystick from our wide range of uniquely sensitive and responsive types.

LEPMIS can perform a home clinical assessment that will identify the best way to access your abilities (Assessment may be dependent on the location of the user). We can manufacture custom switch set-ups and joystick units to meet your particular needs. For more information, contact LEPMIS (contact details at the end of this document).

2 LIMITATIONS OF USE

PS3-SAP is classed as an “accessory to a Medical Device” for the purposes of the European Medical Devices Directive 93/42/EEC 14th June 1993, as it compensates for an injury or handicap.

The PS3-SAP case resists the ingress of dust, moisture and interference from radio signals, but there are no particular features to prevent water entering the unit. Do not soak the unit or attempt to “wash” it in any way. Wipe sparingly with a barely damp cloth and mild detergent if really necessary.

The unit is intended to be used in a home or school environment, and due to its lack of full environmental protection, must not be subjected to exposure to the elements.

The unit is rated for continuous operation but you are advised to consult the games console documentation on the length of time the unit should be used or left ON.

Operating temperature range is as per your game console operating instructions.

3 WARNINGS

No unauthorised access or dismantling of the unit allowed! Tampering will terminate your warranty. Competent technicians requiring internal access to PS3-SAP must apply to the manufacturers – LEPMIS, in writing stating their aim and seeking authorisation to proceed.

Videogaming is enjoyable and can be addictive. It is not recommended that you play computer games for extended periods of time without breaks.

USE YOUR GAMES CONSOLE SENSIBLY !

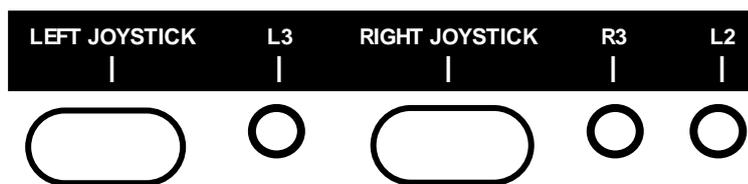
4 DESCRIPTION OF UNIT

PS3-SAP replicates all functions of the SONY PS3 'SixAxis' controller through seventeen 3.5mm stereo jack sockets which accept user switches, and two 9 way "D" type sockets for the users joysticks. A USB socket accepts a USB cable from the games console for power and to pass the users control to the games console. To help setting up the game, the **PS** button is replicated on the top of the box, and the **Start** and **Select** buttons can be found on the back of the box next to their switch sockets. On the underside of the unit is a small hole for the controller RESET function.

On the front face of the unit are the sockets for **Up, Down, Left, Right** direction button inputs, and the **Triangle, Cross, Box, Circle** symbol button inputs.



At the left end of the unit are the **Left** and **Right Joystick** analogue ports. NOTE these do not use the same pin configuration as some common 9 way "D" type game joysticks (see the Analogue Port Specification in this manual). Also on the left of the box are sockets for the **L3, R3, and L2** shoulder button inputs.



On the back of the unit are the sockets for **L1, R1** shoulder button inputs, plus **Start, Select** and **PS**.



On the right hand side of the unit is the socket for **R2** and the games console **USB** cable.



LEPMIS recommends the use of STEREO 3.5mm jack plugs on the user's switches. MONO jack plugs are perfectly acceptable and will almost certainly be what you find attached to your commercially available switches. Stereo jack plugs however, when wired up as detailed later, will preserve the electrical separation of the outer metal ring of the sockets from the electronic circuits inside. This is a reliability feature and helps to protect the electronic circuits from the effects of ESD, (Electro-Static Discharge), which is the "shock" you sometimes get when walking across a carpet and then touching a metal or conductive surface.

5 OPERATING INSTRUCTIONS

For PlayStation3: Connect PS3-SAP to your PS3 using the USB charging cable supplied with your PS3.

For Xbox360, Xbox One, PlayStation4: Connect a wired standard controller to your console via the relevant cross-converter device as recommended by LEPMIS. Once the standard controller is working normally, also connect PS3-SAP to the cross-converter.

Note: PS3-SAP will only work so long as the USB cable is plugged in, as the unit does not have an internal battery. The PS3-SAP 'PS' logo will glow blue when receiving power from your console.

Press the 'PS' logo button to establish a link between PS3-SAP and your console.

Connect your analogue joystick (may require an adaptor to match PS3-SAP Analogue Port Specification) and your accessible switches.

Please note that the action of un/plugging will cause a momentary switch closure, interacting with any game you may be playing. Pressing Up & Down together will result in NO switch action. Similarly with Left & Right. An

6 PROBLEM SOLVING & WARRANTY

Check your games console is providing power to PS3-SAP (logo glows on PS3-SAP) – if not try a different USB cable, or check the suspect cable works with a standard controller.

Check your games console sees PS3-SAP as controller 1 (some games only respond to controller 1)

Always check that your switches or joystick are working correctly before suspecting this unit, as the wires on many commercial switches are known problem areas.

PS3-SAP is covered by LEPMIS for mechanical failure repair costs for 12 months from the delivery date (See the terms and conditions on our website).

AVOID getting fluids or foreign material into the sockets as they will either corrode or become jammed up, and stop working. Failure of the sockets in this way is not covered by the warranty.

If you require further help, please contact LEPMIS with fault details and include unit Type, Date of Manufacture and Serial Number as described on the labelling of the unit.

7 CLEANING INSTRUCTIONS

When necessary, the PS3-SAP case should be cleaned with a barely damp cloth, using only a tiny amount of household detergent. DO NOT USE abrasive products or solvents.

8 TECHNICAL SPECIFICATION

Size: 18cm wide x 12.7cm deep x 4cm high

Weight: 0.375 kg

Operating Voltage: 5v dc (from your games console)

User Switch Jack plug: 3.5mm Mono or Stereo (preferred), normally open

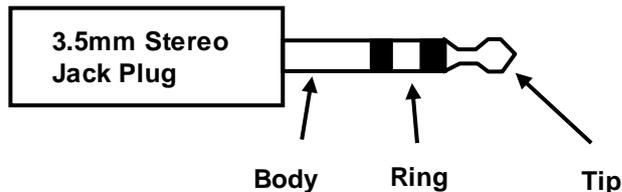
Recommended switch contact resistance : 100 ohms or less.

Maximum switch contact resistance: 390 ohms.

A wide range of suitable switches is available from www.inclusive.co.uk. LEPMIS recommend you specify a switch designed for repeated use, that is waterproof, that has a reinforced cable, and (ideally) has a stereo jack plug. If in doubt, we can help to choose the right switch for you. Alternatively, a competent technician can wire a plug onto a switch for you, using the following instructions.

NOTE: The electrical connections for the user switches and joysticks are isolated from the electronic circuits within the PS3-SAP and the games console.

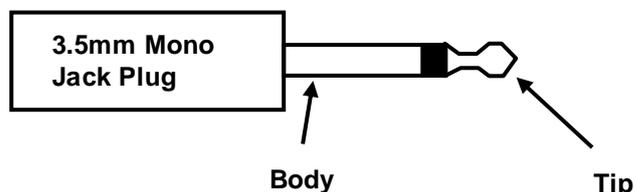
Stereo Plug:



Connect your switch between the "TIP" and "RING" terminals of the connector.
Connect the screen of your cable to the BODY contact, (if cable has a screen).

NOTE: 0v will be connected to the RING and the +Ve feed will be connected to the TIP. The action of the switch is to bring the TIP down to 0v. +Ve feed output impedance 2k7 ohms.

Mono Plug:



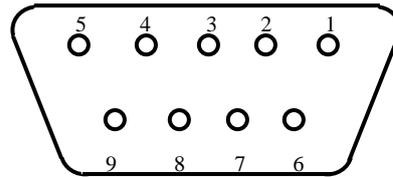
Connect your switch between the "TIP" and "BODY" terminals of the connector.

NOTE: 0v will be connected to the BODY of the plug when the plug is mated. As before +Ve feed will be connected to the TIP and the action of the switch is to bring the TIP down to 0v. All switch inputs have a common 0v connection.

Analogue Port Specification (Nominally 10kΩ, middle position = no movement)

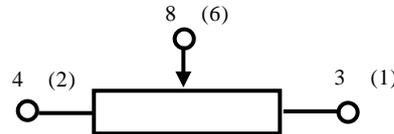
Up/Down control

- 1 Up (-ve)
- 2 Down (+ve)
- 6 U/D Wiper input (2.5v±0.5v)



Left/Right control

- 3 Left (-ve)
- 4 Right (+ve)
- 8 L/R Wiper input (2.5v±0.5v)



- 7 L3/R3 button input
- 5 +5v @ 400mA max
- 9 0v (L3/R3 button common)

Output impedance of pins 1,2,3,4 is 270 ohms. Input impedance of pins 6,8 is 1k ohms
Port pins are protected from short circuit and ESD.

9 ENHANCED GAMING

Through PS3-SAP you can enjoy gaming in ways not possible with a standard controller:

The many switches that control a complex game can be shared by a group of friends or family members to make gaming sociable and fun for all players.

By using a cross-converter adaptor (contact LEPMIS for details) PS3-SAP can work in tandem with a standard controller. This way an able bodied friend with the standard controller can assist with some of the game controls – so that both can contribute and enjoy a game together.

LEPMIS have a wide range of accessories to help gamers of all abilities get maximum enjoyment through PS3-SAP. Awkward switch combinations can be achieved by pressing just one switch. An auto repeat switch can eliminate repeated presses. This can allow the user to, say, continuously fire automatically whilst concentrating on guiding the character around the screen.

We are happy to offer advice or manufacturing services on an individual basis. Please contact us for more information and help.

10 DECLARATION

This User Guide has been written for the:-

LEPMIS PS3-SAP Switch Access Pod.

which is designed to meet the general requirements of:-

the **Medical Devices Directive 93/42/EEC 14 June 1993.**

and conforms to the requirements of **BSEN 60529** to a level of **IP30**

11 CONTACT DETAILS

 This symbol means the PS3-SAP must be re-cycled when no longer required. DO NOT throw away in the general refuse. Please request from LEPMIS a pre-paid envelope in  which to return PS3-SAP for appropriate re-cycling.

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We hope you enjoy using this product, but please do so safely!

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