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**SZ02 General description of operation**

The SZ02 consists of "HUB" and "DONGLE" units, and is designed to operate with a Sony Playstation2 (PS2) and upto 2 PS2 compatible gamepad units.

The SZ02 provides an RF link, which allows data to pass between the gamepad(s) and the PS2.

The HUB and DONGLE are RF units which operate within the 2.400GHz - 2.4835GHz unlicensed frequency band using Frequency Hopping Spread Spectrum (FHSS) techniques. This frequency band is designated as an Industrial, Scientific and Medical (ISM) frequency band. Both the HUB and DONGLE units use bi-directional RF communications.

The HUB contains a battery socket, with removable battery compartment. The battery compartment may contain either 4 \* standard 1.5V AA batteries, or 4\* NiMH rechargeable AA batteries, with a nominal voltage of 1.2V. All the necessary power used by the HUB is supplied by the batteries located in the compartment. Note that the HUB does not contain any ability to recharge batteries. The HUB also contains 2 sockets that are used to connect up to 2 PS2 compatible Gamepads. The HUB will provide all the necessary power for these units, and it will also provide all the signalling required.

The DONGLE contains 2 male PS2 type connectors which allow the DONGLE to be connected to the PS2. These connectors provide the power supplies necessary to power the DONGLE unit. These supplies are nominally 3.5V and 8V. The DONGLE also has a PS2 female connector, which allows a PS2 compatible gamepad to be connected, and bypass the RF link. The Dongle will provide the necessary power supply for this connection. The Dongle also has the ability to recharge the NiMH batteries that are located in the battery compartment. Again, the power supply for this operation is drawn from the PS2 unit.