

Pearl – User Guide






Introduction

Pearl is a portable lyrics presentation device. Small and lightweight, the Pearl and it's accessories fit into any musicians kit bag. The Pearl is elegant, looks well and can be permanently in place at home in the living room, a church meeting room or office.

Pearl uses open source technology including Raspberry Pi and OpenLP. To find out more on how to get the most out of these products visit <http://www.raspberrypi.org> and <http://www.openlp.org> . It is highly recommended to read the OpenLP Manual available at <http://manual.openlp.org/>.

Note: To avoid damaging electronic parts the Pearl device must be shutdown properly. See shutdown instructions below.

Components

<p>Pearl</p> 	<p>1.5m HDMI cable</p> 	
<p>Universal Power Supply</p> 	<p>HDMI to VGA adapter</p> 	<p>Wireless Keyboard & Touchpad</p> 

Using the Pearl

1. Connect video cables

Using the HDMI cable, connect the Pearl to your projector, monitor or TV. Depending on the video input ports available, you may need to have an additional adapter such as the HDMI to VGA adapter. For a television or projector that can only accept composite video input, the Pearl 3.5mm socket outputs an AV composite video signal if the HDMI port is not connected.

2. Plug in the micro USB power cable

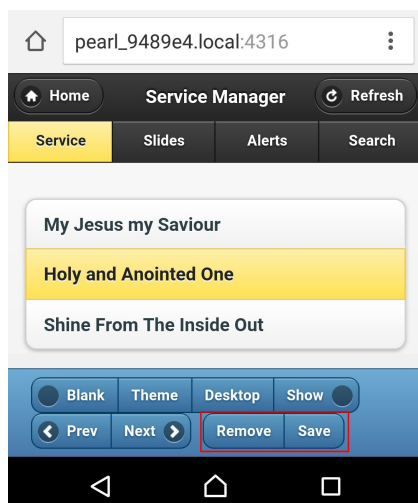
The micro USB port on the far left of the Pearl is for power. The device will automatically start up once it receives power. It is recommended that the universal power supply that comes with Pearl is used. The power supply is specifically designed to deliver the correct voltage and amperage for the device. If the device is under powered a small yellow lightning bolt will appear on the screen. When the Pearl is under powered there is a risk of damage to the device.

3. Connect to the Pearl WiFi network

The Pearl device creates a WiFi hotspot for easy remote control of the lyrics presentation. Once the Pearl is powered it will go through the start up sequence. The final part of the start up sequence is to automatically run OpenLP, the lyrics presentation software. This will be displayed on the connected projector or TV. Using your smart phone or tablet computer connect to the Pearl wireless network. It will have a unique name that begins with the word pearl, followed by an underscore and then 6 digits or letters. For example: pearl_9489e4. The network password is pearl2015.

5. Open the Pearl web application

Now that your smart phone or tablet computer is on the Pearl wireless network open your web browser and go to the following address: <http://pearl.local/>



This will redirect you to a unique page showing the OpenLP lyrics presentation remote control web application. From here you can search for songs, create a service with the songs to present and then show the lyrics for them.

Alternatively, you can use a USB keyboard and mouse to control the Pearl device. In fact, both USB keyboard & mouse and smart phone / tablet computer interface can be used in conjunction.

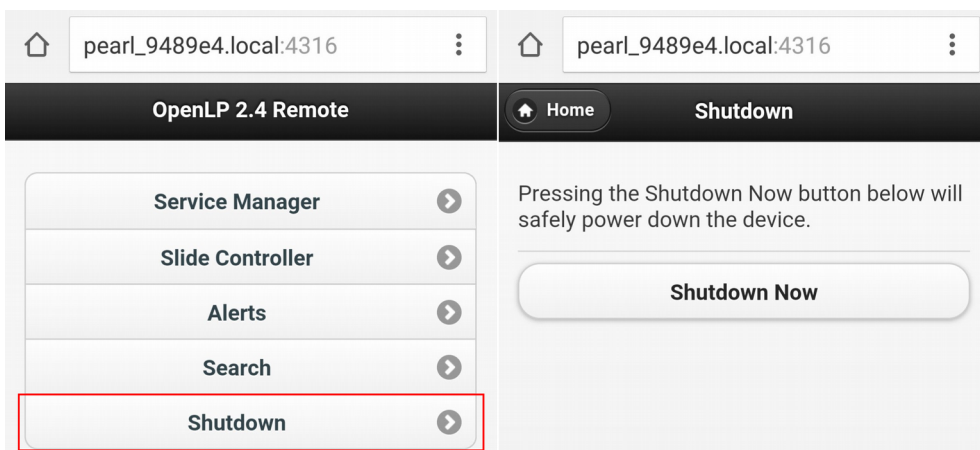
Features in the web application that are unique to Pearl are:

- **Shutdown** – You can shutdown the device through the web application. This is the preferred way to power off the device. See below.
- **Remove** – In the Service Manager the selected song can be removed from the service.
- **Save** – In the Service Manager the current state of the service can be saved. When powered on, the Pearl device will resume with the last saved service.

6. Shutdown

The Pearl does not have a physical power button. It must go through a specific shutdown sequence to ensure data is saved correctly. Unplugging the Pearl, by removing the power cable may damage the Pearl components.

The appropriate way to shutdown the Pearl is to use your browser. Go to <http://pearl.local/> and choose Shutdown and then Shutdown Now. The device will immediately go through the power down sequence. It is then safe to unplug the device.



Add new songs

When new songs are introduced it is best to plug in a USB keyboard and mouse. Either add the new song directly in OpenLP or import it from a USB drive. Pearl has an ethernet network port, so the device can be plugged into your home or office network for internet access and ease of file sharing. See the OpenLP User Manual for more information on adding or importing songs.